
openstack-helm Documentation

Release 2024.2.1.dev19

OpenStack Foundation

Feb 21, 2025

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OPENSTACK-HELM

1.1 Mission

The goal of OpenStack-Helm is to provide a collection of Helm charts that simply, resiliently, and flexibly deploy OpenStack and related services on Kubernetes.

1.2 Versions supported

The table below shows the combinations of the Openstack/Platform/Kubernetes versions that are tested and proved to work.

Openstack version	Host OS	Image OS	Kubernetes version
2023.2 (Bobcat)	Ubuntu Jammy	Ubuntu Jammy	$\geq 1.29, \leq 1.31$
2024.1 (Caracal)	Ubuntu Jammy	Ubuntu Jammy	$\geq 1.29, \leq 1.31$
2024.2 (Dalmatian)	Ubuntu Jammy	Ubuntu Jammy	$\geq 1.29, \leq 1.31$

1.3 Communication

- Join us on [IRC](#): #openstack-helm on oftc
- Join us on [Slack](#) (this is preferable way of communication): #openstack-helm
- Join us on [Openstack-discuss](#) mailing list (use subject prefix [openstack-helm])

The list of Openstack-Helm core team members is available here [openstack-helm-core](#).

1.4 Storyboard

You found an issue and want to make sure we are aware of it? You can do so on our [Storyboard](#).

Bugs should be filed as stories in Storyboard, not GitHub.

Please be as much specific as possible while describing an issue. Usually having more context in the bug description means less efforts for a developer to reproduce the bug and understand how to fix it.

Also before filing a bug to the Openstack-Helm [Storyboard](#) please try to identify if the issue is indeed related to the deployment process and not to the deployable software.

1.5 Other links

Our documentation is available [here](#).

This project is under active development. We encourage anyone interested in OpenStack-Helm to review the [code changes](#)

Our repositories:

- OpenStack charts [openstack-helm](#)
- Infra charts [openstack-helm-infra](#)
- OpenStack-Helm plugin [openstack-helm-plugin](#)
- Building images [openstack-helm-images](#)
- Building Openstack images framework [loci](#)

We welcome contributions in any form: code review, code changes, usage feedback, updating documentation.

1.6 Release notes

We use [reno](#) for managing release notes. If you update a chart, please add a release note using the following command:

```
reno new <chart_name>
```

This will create a new release note file `releasenotes/notes/<chart_name>-<sha>.yaml`. Fill in the necessary information and commit the release note file.

If you update multiple charts in a single commit use the following command:

```
reno new common
```

This will create a new release note file `releasenotes/notes/common-<sha>.yaml`. In this case you can add multiple chart specific sections in this release note file.

When building tarball, we will use the [reno](#) features to combine release notes from all files and generate `<chart_name>/CHANGELOG.md` files.

INSTALLATION

Here are sections that describe how to install OpenStack using OpenStack-Helm:

2.1 Before starting

The OpenStack-Helm charts are published in the [openstack-helm](#) and [openstack-helm-infra](#) helm repositories. Lets enable them:

```
helm repo add openstack-helm https://tarballs.opendev.org/openstack/openstack-  
↪helm  
helm repo add openstack-helm-infra https://tarballs.opendev.org/openstack/  
↪openstack-helm-infra
```

The OpenStack-Helm [plugin](#) provides some helper commands used later on. So, lets install it:

```
helm plugin install https://opendev.org/openstack/openstack-helm-plugin
```

2.2 Kubernetes

OpenStack-Helm provides charts that can be deployed on any Kubernetes cluster if it meets the *version requirements*. However, deploying the Kubernetes cluster itself is beyond the scope of OpenStack-Helm.

You can use any Kubernetes deployment tool for this purpose. In this guide, we detail how to set up a Kubernetes cluster using Kubeadm and Ansible. While not production-ready, this cluster is ideal as a starting point for lab or proof-of-concept environments.

All OpenStack projects test their code through an infrastructure managed by the CI tool, Zuul, which executes Ansible playbooks on one or more test nodes. Therefore, we employ Ansible roles/playbooks to install required packages, deploy Kubernetes, and then execute tests on it.

To establish a test environment, the Ansible role [deploy-env](#) is employed. This role deploys a basic single/multi-node Kubernetes cluster, used to prove the functionality of commonly used deployment configurations. The role is compatible with Ubuntu Focal and Ubuntu Jammy distributions.

Note

The role [deploy-env](#) is not idempotent and assumed to be applied to a clean environment.

2.2.1 Clone roles git repositories

Before proceeding with the steps outlined in the following sections, it is imperative that you clone the git repositories containing the required Ansible roles.

```
mkdir ~/osh
cd ~/osh
git clone https://opendev.org/openstack/openstack-helm-infra.git
git clone https://opendev.org/zuul/zuul-jobs.git
```

2.2.2 Install Ansible

```
pip install ansible
```

2.2.3 Set roles lookup path

Now lets set the environment variable `ANSIBLE_ROLES_PATH` which specifies where Ansible will lookup roles

```
export ANSIBLE_ROLES_PATH=~/osh/openstack-helm-infra/roles:~/osh/zuul-jobs/
↪roles
```

To avoid setting it every time when you start a new terminal instance you can define this in the Ansible configuration file. Please see the Ansible documentation.

2.2.4 Prepare inventory

The example below assumes that there are four nodes which must be available via SSH using the public key authentication and a ssh user (let say `ubuntu`) must have passwordless sudo on the nodes.

```
cat > ~/osh/inventory.yaml <<EOF
---
all:
  vars:
    ansible_port: 22
    ansible_user: ubuntu
    ansible_ssh_private_key_file: /home/ubuntu/.ssh/id_rsa
    ansible_ssh_extra_args: -o StrictHostKeyChecking=no
    # The user and group that will be used to run Kubectl and Helm commands.
    kubectl:
      user: ubuntu
      group: ubuntu
    # The user and group that will be used to run Docker commands.
    docker_users:
      - ununtu
    # By default the deploy-env role sets up ssh key to make it possible
    # to connect to the k8s master node via ssh without a password.
    client_ssh_user: ubuntu
    cluster_ssh_user: ubuntu
    # The MetalLB controller will be installed on the Kubernetes cluster.
    metallb_setup: true
```

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```
# Loopback devices will be created on all cluster nodes which then can be
↳used
# to deploy a Ceph cluster which requires block devices to be provided.
# Please use loopback devices only for testing purposes. They are not
↳suitable
# for production due to performance reasons.
loopback_setup: true
loopback_device: /dev/loop100
loopback_image: /var/lib/openstack-helm/ceph-loop.img
loopback_image_size: 12G
children:
# The primary node where Kubectl and Helm will be installed. If it is
# the only node then it must be a member of the groups k8s_cluster and
# k8s_control_plane. If there are more nodes then the wireguard tunnel
# will be established between the primary node and the k8s_control_plane
↳node.
primary:
  hosts:
    primary:
      ansible_host: 10.10.10.10
# The nodes where the Kubernetes components will be installed.
k8s_cluster:
  hosts:
    node-1:
      ansible_host: 10.10.10.11
    node-2:
      ansible_host: 10.10.10.12
    node-3:
      ansible_host: 10.10.10.13
# The control plane node where the Kubernetes control plane components
↳will be installed.
# It must be the only node in the group k8s_control_plane.
k8s_control_plane:
  hosts:
    node-1:
      ansible_host: 10.10.10.11
# These are Kubernetes worker nodes. There could be zero such nodes.
# In this case the Openstack workloads will be deployed on the control
↳plane node.
k8s_nodes:
  hosts:
    node-2:
      ansible_host: 10.10.10.12
    node-3:
      ansible_host: 10.10.10.13
EOF
```

Note

If you would like to set up a Kubernetes cluster on the local host, configure the Ansible inventory to designate the primary node as the local host. For further guidance, please refer to the Ansible documentation.

Note

The full list of variables that you can define in the inventory file can be found in the file `deploy-env/defaults/main.yaml`.

2.2.5 Prepare playbook

Create an Ansible playbook that will deploy the environment

```
cat > ~/osh/deploy-env.yaml <<EOF
---
- hosts: all
  become: true
  gather_facts: true
  roles:
    - ensure-python
    - ensure-pip
    - clear-firewall
    - deploy-env
EOF
```

2.2.6 Run the playbook

```
cd ~/osh
ansible-playbook -i inventory.yaml deploy-env.yaml
```

The playbook only changes the state of the nodes listed in the inventory file.

It installs necessary packages, deploys and configures Containerd and Kubernetes. For details please refer to the role `deploy-env` and other roles (`ensure-python`, `ensure-pip`, `clear-firewall`) used in the playbook.

Note

The role `deploy-env` configures cluster nodes to use Google DNS servers (8.8.8.8).

By default, it also configures internal Kubernetes DNS server (CoreDNS) to work as a recursive DNS server and adds its IP address (10.96.0.10 by default) to the `/etc/resolv.conf` file.

Processes running on the cluster nodes will be able to resolve internal Kubernetes domain names `*.svc.cluster.local`.

2.3 Kubernetes prerequisites

2.3.1 Ingress controller

Ingress controller when deploying OpenStack on Kubernetes is essential to ensure proper external access for the OpenStack services.

We recommend using the [ingress-nginx](#) because it is simple and provides all necessary features. It utilizes Nginx as a reverse proxy backend. Here is how to deploy it.

First, let's create a namespace for the OpenStack workloads. The ingress controller must be deployed in the same namespace because OpenStack-Helm charts create service resources pointing to the ingress controller pods which in turn redirect traffic to particular Openstack API pods.

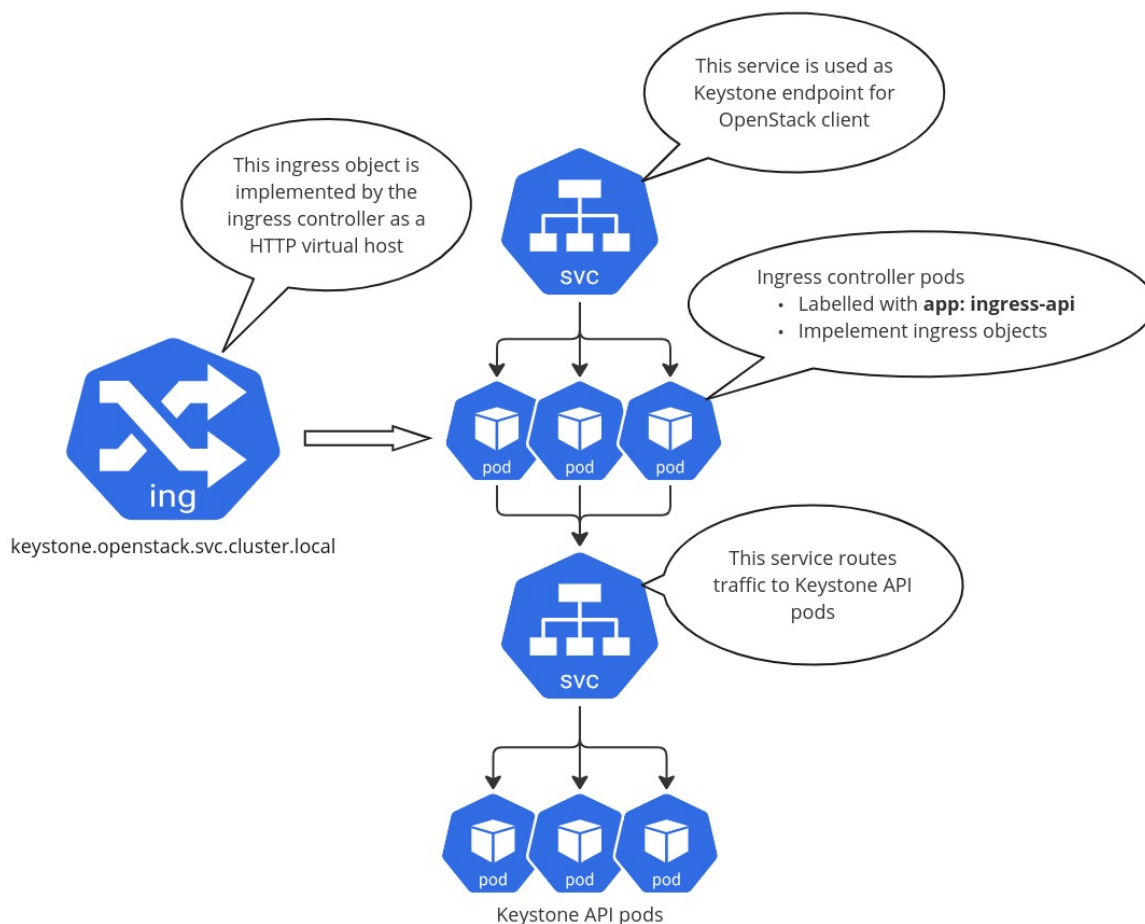
```
tee > /tmp/openstack_namespace.yaml <<EOF
apiVersion: v1
kind: Namespace
metadata:
  name: openstack
EOF
kubectl apply -f /tmp/openstack_namespace.yaml
```

Next, deploy the ingress controller in the openstack namespace:

```
helm repo add ingress-nginx https://kubernetes.github.io/ingress-nginx
helm upgrade --install ingress-nginx ingress-nginx/ingress-nginx \
  --version "4.8.3" \
  --namespace openstack \
  --set controller.kind=Deployment \
  --set controller.admissionWebhooks.enabled="false" \
  --set controller.scope.enabled="true" \
  --set controller.service.enabled="false" \
  --set controller.ingressClassResource.name nginx \
  --set controller.ingressClassResource.controllerValue="k8s.io/ingress-
  →nginx" \
  --set controller.ingressClassResource.default="false" \
  --set controller.ingressClass nginx \
  --set controller.labels.app=ingress-api
```

You can deploy any other ingress controller that suits your needs best. See for example the list of available [ingress controllers](#). Ensure that the ingress controller pods are deployed with the `app: ingress-api` label which is used by the OpenStack-Helm as a selector for the Kubernetes service resources.

For example, the OpenStack-Helm `keystone` chart by default creates a service that redirects traffic to the ingress controller pods selected using the `app: ingress-api` label. Then it also creates an `Ingress` resource which the ingress controller then uses to configure its reverse proxy backend (Nginx) which eventually routes the traffic to the Keystone API service which works as an endpoint for Keystone API pods.



Note

For exposing the OpenStack services to the external world, we can create a service of type LoadBalancer or NodePort with the selector pointing to the ingress controller pods.

2.3.2 MetalLB

MetalLB is a load-balancer for bare metal Kubernetes clusters leveraging L2/L3 protocols. This is a popular way of exposing the web applications running in Kubernetes to the external world.

The following commands can be used to deploy MetalLB:

```
tee > /tmp/metallb_system_namespace.yaml <<EOF
apiVersion: v1
kind: Namespace
metadata:
  name: metallb-system
EOF
kubectl apply -f /tmp/metallb_system_namespace.yaml

helm repo add metallb https://metallb.github.io/metallb
helm install metallb metallb/metallb -n metallb-system
```

Now it is necessary to configure the MetalLB IP address pool and the IP address advertisement. The

MetalLB custom resources are used for this:

```
tee > /tmp/metallb_ipaddresspool.yaml <<EOF
---
apiVersion: metallb.io/v1beta1
kind: IPAddressPool
metadata:
  name: public
  namespace: metallb-system
spec:
  addresses:
  - "172.24.128.0/24"
EOF

kubectl apply -f /tmp/metallb_ipaddresspool.yaml

tee > /tmp/metallb_l2advertisement.yaml <<EOF
---
apiVersion: metallb.io/v1beta1
kind: L2Advertisement
metadata:
  name: public
  namespace: metallb-system
spec:
  ipAddressPools:
  - public
EOF

kubectl apply -f /tmp/metallb_l2advertisement.yaml
```

Next, lets create a service of type `LoadBalancer` which will be the public endpoint for all OpenStack services that we will later deploy. The MetalLB will assign an IP address to it (we can assign a dedicated IP using annotations):

```
tee > /tmp/openstack_endpoint_service.yaml <<EOF
---
kind: Service
apiVersion: v1
metadata:
  name: public-openstack
  namespace: openstack
  annotations:
    metallb.universe.tf/loadBalancerIPs: "172.24.128.100"
spec:
  externalTrafficPolicy: Cluster
  type: LoadBalancer
  selector:
    app: ingress-api
  ports:
  - name: http
    port: 80
```

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```
- name: https
  port: 443
EOF
kubectl apply -f /tmp/openstack_endpoint_service.yaml
```

This service will redirect the traffic to the ingress controller pods (see the `app: ingress-api` selector). OpenStack-Helm charts create Ingress resources which are used by the ingress controller to configure the reverse proxy backend so that the traffic eventually goes to particular Openstack API pods.

By default, the Ingress objects will only contain rules for the `openstack.svc.cluster.local` DNS domain. This is the internal Kubernetes domain and it is not supposed to be used outside the cluster.

You can use the `host_fqdn_override` for the endpoints to set an alternate hostname using a service like `sslip.io`. Assuming your services are exposed at `172.24.128.100` as is referenced in the Service above, you could use `<service>.172-24-128-100.sslip.io`

Here is an example of how to set the `host_fqdn_override` for the Keystone chart:

```
endpoints:
  identity:
    host_fqdn_override:
      public:
        host: "keystone.172-24-128-100.sslip.io"
```

Note

In production environments you probably choose to use a different DNS domain for public OpenStack endpoints. This is easy to achieve by setting the necessary chart values. All Openstack-Helm charts values have the `endpoints` section where you can specify the `host_fqdn_override`. In this case a chart will create additional Ingress resources to handle the external domain name and also the Keystone endpoint catalog will be updated.

2.3.3 Ceph

Ceph is a highly scalable and fault-tolerant distributed storage system. It offers object storage, block storage, and file storage capabilities, making it a versatile solution for various storage needs.

Kubernetes CSI (Container Storage Interface) allows storage providers like Ceph to implement their drivers, so that Kubernetes can use the CSI driver to provision and manage volumes which can be used by stateful applications deployed on top of Kubernetes to store their data. In the context of OpenStack running in Kubernetes, the Ceph is used as a storage backend for services like MariaDB, RabbitMQ and other services that require persistent storage. By default OpenStack-Helm stateful sets expect to find a storage class named **general**.

At the same time, Ceph provides the RBD API, which applications can utilize directly to create and mount block devices distributed across the Ceph cluster. For example the OpenStack Cinder utilizes this Ceph capability to offer persistent block devices to virtual machines managed by the OpenStack Nova.

The recommended way to manage Ceph on top of Kubernetes is by means of the [Rook](#) operator. The Rook project provides the Helm chart to deploy the Rook operator which extends the Kubernetes API

adding CRDs that enable managing Ceph clusters via Kubernetes custom objects. There is also another Helm chart that facilitates deploying Ceph clusters using Rook custom resources.

For details please refer to the [Rook](#) documentation and the [charts](#).

Note

The following script `ceph-rook.sh` (recommended for testing only) can be used as an example of how to deploy the Rook Ceph operator and a Ceph cluster using the Rook [charts](#). Please note that the script places Ceph OSDs on loopback devices which is **not recommended** for production. The loopback devices must exist before using this script.

Once the Ceph cluster is deployed, the next step is to enable using it for services deployed by OpenStack-Helm charts. The `ceph-adapter-rook` chart provides the necessary functionality to do this. The chart will prepare Kubernetes secret resources containing Ceph client keys/configs that are later used to interface with the Ceph cluster.

Here we assume the Ceph cluster is deployed in the `ceph` namespace.

```
helm upgrade --install ceph-adapter-rook openstack-helm-infra/ceph-adapter-
↪rook \
  --namespace openstack

helm osh wait-for-pods openstack
```

2.3.4 Node labels

Openstack-Helm charts rely on Kubernetes node labels to determine which nodes are suitable for running specific OpenStack components.

The following sets labels on all the Kubernetes nodes in the cluster including control plane nodes but you can choose to label only a subset of nodes where you want to run OpenStack:

```
kubectl label --overwrite nodes --all openstack-control-plane=enabled
kubectl label --overwrite nodes --all openstack-compute-node=enabled
kubectl label --overwrite nodes --all openvswitch=enabled
kubectl label --overwrite nodes --all linuxbridge=enabled
```

Note

The control plane nodes are tainted by default to prevent scheduling of pods on them. You can untaint the control plane nodes using the following command:

```
kubectl taint nodes -l 'node-role.kubernetes.io/control-plane' node-role.
↪kubernetes.io/control-plane-
```

2.4 Deploy OpenStack

2.4.1 Check list before deployment

At this point we assume all the prerequisites listed below are met:

- Kubernetes cluster is up and running.
- `kubectl` and `helm` command line tools are installed and configured to access the cluster.
- The OpenStack-Helm repositories are enabled, OpenStack-Helm plugin is installed and necessary environment variables are set.
- The `openstack` namespace is created.
- Ingress controller is deployed in the `openstack` namespace.
- MetalLB is deployed and configured. The service of type `LoadBalancer` is created and DNS is configured to resolve the Openstack endpoint names to the IP address of the service.
- Ceph is deployed and enabled for using by OpenStack-Helm.

2.4.2 Environment variables

First lets set environment variables that are later used in the subsequent sections:

```
export OPENSTACK_RELEASE=2024.1
# Features enabled for the deployment. This is used to look up values,
↳ overrides.
export FEATURES="${OPENSTACK_RELEASE} ubuntu_jammy"
# Directory where values overrides are looked up or downloaded to.
export OVERRIDES_DIR=$(pwd)/overrides
```

2.4.3 Get values overrides

OpenStack-Helm provides values overrides for predefined feature sets and various OpenStack/platform versions. The overrides are stored in the OpenStack-Helm git repositories and OpenStack-Helm plugin provides a command to look them up locally and download (optional) if not found.

Please read the help:

```
helm osh get-values-overrides --help
```

For example, if you pass the feature set `2024.1 ubuntu_jammy` it will try to look up the following files:

```
2024.1.yaml
ubuntu_jammy.yaml
2024.1-ubuntu_jammy.yaml
```

Lets download the values overrides for the feature set defined above:

```
INFRA_OVERRIDES_URL=https://opendev.org/openstack/openstack-helm-infra/raw/
↳ branch/master/values_overrides
for chart in rabbitmq mariadb memcached openvswitch libvirt; do
  helm osh get-values-overrides -d -u ${INFRA_OVERRIDES_URL} -p ${OVERRIDES_
↳ DIR} -c ${chart} ${FEATURES}
```

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```
done
OVERRIDES_URL=https://opendev.org/openstack/openstack-helm/raw/branch/master/
↪values_overrides
for chart in keystone heat glance cinder placement nova neutron horizon; do
    helm osh get-values-overrides -d -u ${OVERRIDES_URL} -p ${OVERRIDES_DIR} -
    ↪c ${chart} ${FEATURES}
done
```

Now you can inspect the downloaded files in the `${OVERRIDES_DIR}` directory and adjust them if needed.

2.4.4 OpenStack backend

OpenStack is a cloud computing platform that consists of a variety of services, and many of these services rely on backend services like RabbitMQ, MariaDB, and Memcached for their proper functioning. These backend services play crucial role in OpenStack architecture.

RabbitMQ

RabbitMQ is a message broker that is often used in OpenStack to handle messaging between different components and services. It helps in managing communication and coordination between various parts of the OpenStack infrastructure. Services like Nova (compute), Neutron (networking), and Cinder (block storage) use RabbitMQ to exchange messages and ensure proper orchestration.

Use the following script to deploy RabbitMQ service:

```
helm upgrade --install rabbitmq openstack-helm-infra/rabbitmq \
  --namespace openstack \
  --set pod.replicas.server=1 \
  --timeout 600s \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c rabbitmq $
  ↪${FEATURES})
helm osh wait-for-pods openstack
```

MariaDB

Database services like MariaDB are used as a backend database for majority of OpenStack projects. These databases store critical information such as user credentials, service configurations, and data related to instances, networks, and volumes. Services like Keystone (identity), Nova, Glance (image), and Cinder rely on MariaDB for data storage.

```
helm upgrade --install mariadb openstack-helm-infra/mariadb \
  --namespace openstack \
  --set pod.replicas.server=1 \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c mariadb ${FEATURES}
  ↪)
helm osh wait-for-pods openstack
```

Memcached

Memcached is a distributed memory object caching system that is often used in OpenStack to improve performance. OpenStack services cache frequently accessed data in Memcached, which helps in faster data retrieval and reduces the load on the database backend.

```
helm upgrade --install memcached openstack-helm-infra/memcached \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c memcached $
  →{FEATURES})

helm osh wait-for-pods openstack
```

2.4.5 OpenStack

Now we are ready for the deployment of OpenStack components. Some of them are mandatory while others are optional.

Keystone

OpenStack Keystone is the identity and authentication service for the OpenStack cloud computing platform. It serves as the central point of authentication and authorization, managing user identities, roles, and access to OpenStack resources. Keystone ensures secure and controlled access to various OpenStack services, making it an integral component for user management and security in OpenStack deployments.

This is a mandatory component of any OpenStack cluster.

To deploy the Keystone service run the following:

```
helm upgrade --install keystone openstack-helm/keystone \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c keystone $
  →{FEATURES})

helm osh wait-for-pods openstack
```

Heat

OpenStack Heat is an orchestration service that provides templates and automation for deploying and managing cloud resources. It enables users to define infrastructure as code, making it easier to create and manage complex environments in OpenStack through templates and automation scripts.

Here are the commands for the deployment of Heat service.

```
helm upgrade --install heat openstack-helm/heat \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c heat ${FEATURES})

helm osh wait-for-pods openstack
```

Glance

OpenStack Glance is the image service component of OpenStack. It manages and catalogs virtual machine images, such as operating system images and snapshots, making them available for use in OpenStack compute instances.

This is a mandatory component.

The Glance deployment commands are as follows:

```
tee ${OVERRIDES_DIR}/glance/values_overrides/glance_pvc_storage.yaml <<EOF
storage: pvc
volume:
  class_name: general
  size: 10Gi
EOF

helm upgrade --install glance openstack-helm/glance \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c glance glance_pvc_
  →storage ${FEATURES})

helm osh wait-for-pods openstack
```

Note

In the above we prepare a values override file for glance chart which makes it use a Persistent Volume Claim (PVC) for storing images. We put the values in the `${OVERRIDES_DIR}/glance/values_overrides/glance_pvc_storage.yaml` so the OpenStack-Helm plugin can pick it up if we pass the feature `glance_pvc_storage` to it.

Cinder

OpenStack Cinder is the block storage service component of the OpenStack cloud computing platform. It manages and provides persistent block storage to virtual machines, enabling users to attach and detach persistent storage volumes to their VMs as needed.

To deploy the OpenStack Cinder use the following

```
helm upgrade --install cinder openstack-helm/cinder \
  --namespace openstack \
  --timeout 600s \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c cinder ${FEATURES})

helm osh wait-for-pods openstack
```

Compute kit backend: Openvswitch and Libvirt

OpenStack-Helm recommends using OpenvSwitch as the networking backend for the OpenStack cloud. OpenvSwitch is a software-based, open-source networking solution that provides virtual switching capabilities.

To deploy the OpenvSwitch service use the following:

```
helm upgrade --install openvswitch openstack-helm-infra/openvswitch \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c openvswitch $
  ↪️{FEATURES})

helm osh wait-for-pods openstack
```

Libvirt is a toolkit that provides a common API for managing virtual machines. It is used in OpenStack to interact with hypervisors like KVM, QEMU, and Xen.

Lets deploy the Libvirt service using the following command:

```
helm upgrade --install libvirt openstack-helm-infra/libvirt \
  --namespace openstack \
  --set conf.ceph.enabled=true \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c libvirt ${FEATURES}
  ↪️)
```

Note

Here we dont need to run `helm osh wait-for-pods` because the Libvirt pods depend on Neutron OpenvSwitch agent pods which are not yet deployed.

Compute kit: Placement, Nova, Neutron

OpenStack Placement is a service that helps manage and allocate resources in an OpenStack cloud environment. It helps Nova (compute) find and allocate the right resources (CPU, memory, etc.) for virtual machine instances.

```
helm upgrade --install placement openstack-helm/placement \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c placement $
  ↪️{FEATURES})
```

OpenStack Nova is the compute service responsible for managing and orchestrating virtual machines in an OpenStack cloud. It provisions and schedules instances, handles their lifecycle, and interacts with underlying hypervisors.

```
helm upgrade --install nova openstack-helm/nova \
  --namespace openstack \
  --set bootstrap.wait_for_computes.enabled=true \
  --set conf.ceph.enabled=true \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c nova ${FEATURES})
```

OpenStack Neutron is the networking service that provides network connectivity and enables users to create and manage network resources for their virtual machines and other services.

```
PROVIDER_INTERFACE=<provider_interface_name>
tee ${OVERRIDES_DIR}/neutron/values_overrides/neutron_simple.yaml << EOF
conf:
```

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```

neutron:
  DEFAULT:
    l3_ha: False
    max_l3_agents_per_router: 1
  # <provider_interface_name> will be attached to the br-ex bridge.
  # The IP assigned to the interface will be moved to the bridge.
  auto_bridge_add:
    br-ex: ${PROVIDER_INTERFACE}
  plugins:
    ml2_conf:
      ml2_type_flat:
        flat_networks: public
    openvswitch_agent:
      ovs:
        bridge_mappings: public:br-ex
EOF
helm upgrade --install neutron openstack-helm/neutron \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c neutron neutron_
  ↪simple ${FEATURES})
helm osh wait-for-pods openstack

```

Horizon

OpenStack Horizon is the web application that is intended to provide a graphic user interface to Openstack services.

Lets deploy it:

```

helm upgrade --install horizon openstack-helm/horizon \
  --namespace openstack \
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c horizon ${FEATURES}
  ↪)
helm osh wait-for-pods openstack

```

2.4.6 OpenStack client

Installing the OpenStack client on the developers machine is a vital step. The easiest way to install the OpenStack client is to create a Python virtual environment and install the client using pip.

```

python3 -m venv ~/openstack-client
source ~/openstack-client/bin/activate
pip install python-openstackclient

```

Now lets prepare the OpenStack client configuration file:

```
mkdir -p ~/.config/openstack
tee ~/.config/openstack/clouds.yaml << EOF
clouds:
  openstack_helm:
    region_name: RegionOne
    identity_api_version: 3
    auth:
      username: 'admin'
      password: 'password'
      project_name: 'admin'
      project_domain_name: 'default'
      user_domain_name: 'default'
      auth_url: 'http://keystone.openstack.svc.cluster.local/v3'
```

That is it! Now you can use the OpenStack client. Try to run this:

```
openstack --os-cloud openstack_helm endpoint list
```

Note

In some cases it is more convenient to use the OpenStack client inside a Docker container. OpenStack-Helm provides the `openstackhelm/openstack-client` image. The below is an example of how to use it.

```
docker run -it --rm --network host \
  -v ~/.config/openstack/clouds.yaml:/etc/openstack/clouds.yaml \
  -e OS_CLOUD=openstack_helm \
  docker.io/openstackhelm/openstack-client:${OPENSTACK_RELEASE} \
  openstack endpoint list
```

Remember that the container file system is ephemeral and is destroyed when you stop the container. So if you would like to use the Openstack client capabilities interfacing with the file system then you have to mount a directory from the host file system where necessary files are located. For example, this is useful when you create a key pair and save the private key in a file which is then used for ssh access to VMs. Or it could be Heat templates which you prepare in advance and then use with Openstack client.

For convenience, you can create an executable entry point that runs the Openstack client in a Docker container. See for example `setup-client.sh`.

2.4.7 Other Openstack components (optional)

Barbican

OpenStack Barbican is a component within the OpenStack ecosystem that provides secure storage, provisioning, and management of secrets, such as encryption keys, certificates, and passwords.

If you want other OpenStack services to use Barbican for secret management, you'll need to reconfigure those services to integrate with Barbican. Each OpenStack service has its own configuration settings that need to be updated.


```
helm upgrade --install barbican openstack-helm/barbican \  
  --namespace openstack \  
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c barbican $  
↔{FEATURES})  
  
helm osh wait-for-pods openstack
```

Tacker

Tacker is an OpenStack service for NFV Orchestration with a general purpose VNF Manager to deploy and operate Virtual Network Functions (VNFs) and Network Services on an NFV Platform. It is based on ETSI MANO Architectural Framework and provides OpenStacks NFV Orchestration API.

Note

Barbican must be installed before Tacker, as it is a necessary component for Tackers installation.

To deploy the OpenStack Tacker, use the following:

```
helm upgrade --install tacker openstack-helm/tacker \  
  --namespace openstack \  
  $(helm osh get-values-overrides -p ${OVERRIDES_DIR} -c tacker ${FEATURES})  
  
helm osh wait-for-pods openstack
```

For comprehensive instructions on installing Tacker using Openstack Helm, please refer [Install Tacker via Openstack Helm](#).

CHART OPTIONS

Here are the charts with their documented values.yamls for OpenStack Helm:

3.1 Aodh

There are various customizations you can do to tailor the deployment of OpenStack Aodh. You can find those below.

3.1.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *false*
- bootstrap.ks_user
 - Type: string
 - Description:
 - *aodh*
- bootstrap.script
 - Type: string
 - Description:
 - `openstack token issue`
- conf.aodh.DEFAULT.debug
 - Type: bool
 - Description:
 - *false*
- conf.aodh.DEFAULT.log_config_append
 - Type: string
 - Description:
 - */etc/aodh/logging.conf*

- `conf.aodh.database.alarm_history_time_to_live`
 - Type: int
 - Description:
 - *86400*
- `conf.aodh.database.max_retries`
 - Type: int
 - Description:
 - *-1*
- `conf.aodh.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.aodh.keystone_authtoken.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.aodh.keystone_authtoken.memcache_security_strategy`
 - Type: string
 - Description:
 - *ENCRYPT*
- `conf.aodh.keystone_authtoken.service_type`
 - Type: string
 - Description:
 - *alarming*
- `conf.aodh.oslo_middleware.enable_proxy_headers_parsing`
 - Type: bool
 - Description:
 - *true*
- `conf.aodh.oslo_policy.policy_file`
 - Type: string
 - Description:
 - */etc/aodh/policy.yaml*
- `conf.aodh.service_credentials.auth_type`
 - Type: string

- Description:
 - *password*
- `conf.aodh.service_credentials.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.aodh.service_credentials.interface`
 - Type: string
 - Description:
 - *internal*
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - *()*
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*

- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - *(sys.stdout,)*
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string

- Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_aodh.handlers[0]`
 - Type: string
 - Description:
 - *stdout*

- `conf.logging.logger_aodh.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_aodh.qualname`
 - Type: string
 - Description:
 - *aodh*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_root.handlers`
 - Type: string

- Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *aodh*
- `conf.paste.app:aodhv2.paste.app_factory`
 - Type: string
 - Description:
 - *aodh.api.app:app_factory*
- `conf.paste.app:aodhv2.root`
 - Type: string
 - Description:
 - *aodh.api.controllers.v2.root.V2Controller*

- `conf.paste.app:aodhversions.paste.app_factory`
 - Type: string
 - Description:
 - *aodh.api.app:app_factory*
- `conf.paste.app:aodhversions.root`
 - Type: string
 - Description:
 - *aodh.api.controllers.root.VersionsController*
- `conf.paste.app:healthcheck.oslo_config_project`
 - Type: string
 - Description:
 - *aodh*
- `conf.paste.app:healthcheck.use`
 - Type: string
 - Description:
 - *egg:oslo.middleware#healthcheck*
- `conf.paste.composite:aodh+keystone./`
 - Type: string
 - Description:
 - *aodhversions_pipeline*
- `conf.paste.composite:aodh+keystone./healthcheck`
 - Type: string
 - Description:
 - *healthcheck*
- `conf.paste.composite:aodh+keystone./v2`
 - Type: string
 - Description:
 - *aodhv2_keystone_pipeline*
- `conf.paste.composite:aodh+keystone.use`
 - Type: string
 - Description:
 - *egg:Paste#urlmap*
- `conf.paste.composite:aodh+noauth./`
 - Type: string

- Description:
- *aodhversions_pipeline*
- `conf.paste.composite:aodh+noauth./healthcheck`
 - Type: string
 - Description:
 - *healthcheck*
- `conf.paste.composite:aodh+noauth./v2`
 - Type: string
 - Description:
 - *aodhv2_noauth_pipeline*
- `conf.paste.composite:aodh+noauth.use`
 - Type: string
 - Description:
 - *egg:Paste#urlmap*
- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:authtoken.oslo_config_project`
 - Type: string
 - Description:
 - *aodh*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *aodh*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.http_proxy_to_wsgi:HTTPProxyToWSGI.factory*

- `conf.paste.filter:http_proxy_to_wsgi.oslo_config_project`
 - Type: string
 - Description:
 - *aodh*
- `conf.paste.filter:request_id.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:RequestId.factory*
- `conf.paste.pipeline:aodhv2_keystone_pipeline.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id authtoken aodhv2*
- `conf.paste.pipeline:aodhv2_noauth_pipeline.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id aodhv2*
- `conf.paste.pipeline:aodhversions_pipeline.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi aodhversions*
- `conf.policy`
 - Type: object
 - Description:
 - *{}*
- `conf.wsgi_aodh`
 - Type: string
 - Description:

```

- Listen 0.0.0.0:{{ tuple \"alarming\" \"internal\" \"api\" . |
  ↪include \"helm-toolkit.endpoints.endpoint_port_lookup\" }}

LogFormat \"%h %l %u %t \\\"%r\\\"\" %>s %b \\\"%{Referer}i\\\" \\\"%
  ↪{User-Agent}i\\\"\" combined
LogFormat \"%{X-Forwarded-For}i %l %u %t \\\"%r\\\"\" %>s %b \\\"%
  ↪{Referer}i\\\" \\\"%{User-Agent}i\\\"\" proxy

SetEnvIf X-Forwarded-For \"^.*\\..*\\..*\\..*\" forwarded
CustomLog /dev/stdout combined env=!forwarded

```

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```

CustomLog /dev/stdout proxy env=forwarded

<VirtualHost *:{ tuple \"alarming\" \"internal\" \"api\" . |
↳ include \"helm-toolkit.endpoints.endpoint_port_lookup\" }>
  WSGIDAemonProcess aodh processes=2 threads=1 user=aodh
↳ group=aodh display-name=%{GROUP}
  WSGIProcessGroup aodh
  WSGIScriptAlias / /var/www/cgi-bin/aodh/aodh-api
  WSGIApplicationGroup %{GLOBAL}
  <IfVersion >= 2.4>
    ErrorLogFormat \"%{cu}t %M\"
  </IfVersion>

  ErrorLog /dev/stdout
  SetEnvIf X-Forwarded-For \"^.*\\.*\\..*\\..*\\..*\" forwarded
  CustomLog /dev/stdout combined env=!forwarded
  CustomLog /dev/stdout proxy env=forwarded
</VirtualHost>

```

- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *aodh-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *aodh-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *aodh-ks-user*
- dependencies.static.api.jobs[2]

- Type: string
 - Description:
 - *aodh-ks-endpoints*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:

- *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *aodh-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.evaluator.jobs[0]
 - Type: string
 - Description:
 - *aodh-db-sync*
- dependencies.static.evaluator.jobs[1]
 - Type: string
 - Description:
 - *aodh-rabbit-init*
- dependencies.static.evaluator.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.evaluator.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.evaluator.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.evaluator.services[1].service

- Type: string
 - Description:
 - *identity*
- dependencies.static.evaluator.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.evaluator.services[2].service
 - Type: string
 - Description:
 - *alarming*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *aodh-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.listener.jobs[0]
 - Type: string
 - Description:
 - *aodh-db-sync*
- dependencies.static.listener.jobs[1]
 - Type: string
 - Description:
 - *aodh-rabbit-init*
- dependencies.static.listener.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.listener.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.listener.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.listener.services[1].service

- Type: string
 - Description:
 - *identity*
- dependencies.static.listener.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.listener.services[2].service
 - Type: string
 - Description:
 - *alarming*
- dependencies.static.notifier.jobs[0]
 - Type: string
 - Description:
 - *aodh-db-sync*
- dependencies.static.notifier.jobs[1]
 - Type: string
 - Description:
 - *aodh-rabbit-init*
- dependencies.static.notifier.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.notifier.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.notifier.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.notifier.services[1].service
 - Type: string
 - Description:

- *identity*
- dependencies.static.notifier.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.notifier.services[2].service
 - Type: string
 - Description:
 - *alarming*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.tests.jobs[0]
 - Type: string
 - Description:
 - *aodh-db-sync*
- dependencies.static.tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.tests.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[1].service

- Type: string
 - Description:
 - *oslo_db*
- dependencies.static.tests.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[2].service
 - Type: string
 - Description:
 - *alarming*
- endpoints.alarming.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.alarming.hosts.default
 - Type: string
 - Description:
 - *aodh-api*
- endpoints.alarming.hosts.public
 - Type: string
 - Description:
 - *aodh*
- endpoints.alarming.name
 - Type: string
 - Description:
 - *aodh*
- endpoints.alarming.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.alarming.port.api.default
 - Type: int
 - Description:

- 8042
- endpoints.alarming.port.api.public
 - Type: int
 - Description:
 - 80
- endpoints.alarming.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:
 - *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default

- Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:

- *admin*
- endpoints.identity.auth.aodh.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.aodh.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.aodh.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.aodh.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.aodh.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.aodh.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.aodh.username
 - Type: string
 - Description:
 - *aodh*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default

- Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:

- *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.aodh.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.aodh.username
 - Type: string
 - Description:
 - *aodh*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.host_fqdn_override.default

- Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:

- *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.aodh.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.aodh.username
 - Type: string
 - Description:
 - *aodh*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */aodh*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme

- Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.aodh.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.aodh.username
 - Type: string
 - Description:
 - *aodh*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */aodh*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:

- 5672
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - 15672
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - 2
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.aodh_alarms_cleaner

- Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-aodh-base:ocata*
- images.tags.aodh_api
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-aodh-api:ocata*
- images.tags.aodh_db_sync
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-aodh-api:ocata*
- images.tags.aodh_evaluator
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-aodh-evaluator:ocata*
- images.tags.aodh_listener
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-aodh-listener:ocata*
- images.tags.aodh_notifier
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-aodh-notifier:ocata*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:

- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- jobs.alarms_cleaner.cron
 - Type: string
 - Description:
 - *0 */24 * * **
- jobs.alarms_cleaner.history.failed
 - Type: int
 - Description:
 - *1*
- jobs.alarms_cleaner.history.success

- Type: int
 - Description:
 - 3
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.evaluator.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.evaluator.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.listener.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.listener.node_selector_value
 - Type: string
 - Description:

- *enabled*
- labels.notifier.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.notifier.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.cron_job_alarms_cleaner
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_evaluator

- Type: bool
 - Description:
 - *true*
- manifests.deployment_listener
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_notifier
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:

- *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.pod_aodh_test
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls

- Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:

- *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *8042*
- network_policy.aodh.egress[0]
 - Type: object
 - Description:
 - *{}*
- network_policy.aodh.ingress[0]
 - Type: object
 - Description:
 - *{}*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default

- Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.aodh_alarms_cleaner.aodh_alarms_cleaner.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_alarms_cleaner.aodh_alarms_cleaner.volumes
 - Type: string
 - Description:

- *nil*
- pod.mounts.aodh_alarms_cleaner.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_api.aodh_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_api.aodh_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_bootstrap.aodh_bootstrap.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_bootstrap.aodh_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_db_sync.aodh_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_db_sync.aodh_db_sync.volumes

- Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_evaluator.aodh_evaluator.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_evaluator.aodh_evaluator.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_evaluator.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_listener.aodh_listener.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_listener.aodh_listener.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_listener.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_notifier.aodh_notifier.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_notifier.aodh_notifier.volumes
 - Type: string
 - Description:

- *nil*
- pod.mounts.aodh_notifier.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_tests.aodh_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_tests.aodh_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.aodh_tests.init_container
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.evaluator
 - Type: int
 - Description:
 - *1*
- pod.replicas.listener
 - Type: int
 - Description:
 - *1*
- pod.replicas.notifier
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.evaluator.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.evaluator.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.evaluator.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.evaluator.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.resources.jobs.alarms_cleaner.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.alarms_cleaner.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.alarms_cleaner.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.alarms_cleaner.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_drop.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:

- *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu

- Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.listener.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.listener.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.listener.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.listener.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.notifier.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.notifier.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.notifier.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.notifier.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.security_context.aodh.container.aodh_api.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.aodh.container.aodh_evaluator.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.aodh.container.aodh_evaluator.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.aodh.container.aodh_listener.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.aodh.container.aodh_listener.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.aodh.container.aodh_notifier.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.aodh.container.aodh_notifier.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.aodh.pod.runAsUser

- Type: int
 - Description:
 - *42402*
- pod.tolerations.aodh.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.aodh.tolerations[0].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.aodh.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.aodh.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.aodh.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.aodh.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.aodh.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- release_group
 - Type: string
 - Description:

- *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *aodh-keystone-admin*
- secrets.identity.aodh
 - Type: string
 - Description:
 - *aodh-keystone-user*
- secrets.oci_image_registry.aodh
 - Type: string
 - Description:
 - *aodh-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *aodh-db-admin*
- secrets.oslo_db.aodh
 - Type: string
 - Description:
 - *aodh-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *aodh-rabbitmq-admin*
- secrets.oslo_messaging.aodh
 - Type: string
 - Description:
 - *aodh-rabbitmq-user*
- secrets.tls.alarming.api.public
 - Type: string
 - Description:
 - *aodh-tls-public*

3.2 Barbican

There are various customizations you can do to tailor the deployment of OpenStack Barbican. You can find those below.

3.2.1 General Parameters

- `bootstrap.enabled`
 - Type: bool
 - Description:
 - *false*
- `bootstrap.ks_user`
 - Type: string
 - Description:
 - *barbican*
- `bootstrap.script`
 - Type: string
 - Description:
 - `openstack token issue`
- `conf.audit_map.DEFAULT.target_endpoint_type`
 - Type: string
 - Description:
 - *key-manager*
- `conf.audit_map.custom_actions.acl/get`
 - Type: string
 - Description:
 - *read*
- `conf.audit_map.path_keywords.cas`
 - Type: string
 - Description:
 - *None*
- `conf.audit_map.path_keywords.containers`
 - Type: string
 - Description:
 - *nil*
- `conf.audit_map.path_keywords.orders`

- Type: string
 - Description:
 - *nil*
- conf.audit_map.path_keywords.project-quotas
 - Type: string
 - Description:
 - *nil*
- conf.audit_map.path_keywords.quotas
 - Type: string
 - Description:
 - *nil*
- conf.audit_map.path_keywords.secrets
 - Type: string
 - Description:
 - *nil*
- conf.audit_map.service_endpoints.key-manager
 - Type: string
 - Description:
 - *service/security/keymanager*
- conf.barbican.DEFAULT.log_config_append
 - Type: string
 - Description:
 - */etc/barbican/logging.conf*
- conf.barbican.DEFAULT.transport_url
 - Type: string
 - Description:
 - *nil*
- conf.barbican.barbican_api.bind_port
 - Type: string
 - Description:
 - *nil*
- conf.barbican.database.max_retries
 - Type: int
 - Description:

- *-1*
- conf.barbican.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.barbican.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.barbican.keystone_authtoken.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- conf.barbican.keystone_authtoken.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.barbican.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *key-manager*
- conf.barbican.oslo_policy.policy_file
 - Type: string
 - Description:
 - */etc/barbican/policy.yaml*
- conf.barbican_api_uwsgi.uwsgi.add-header
 - Type: string
 - Description:
 - *Connection: close*
- conf.barbican_api_uwsgi.uwsgi.buffer-size
 - Type: int
 - Description:
 - *65535*
- conf.barbican_api_uwsgi.uwsgi.die-on-term

- Type: bool
 - Description:
 - *true*
- conf.barbican_api_uwsgi.uwsgi.enable-threads
 - Type: bool
 - Description:
 - *true*
- conf.barbican_api_uwsgi.uwsgi.exit-on-reload
 - Type: bool
 - Description:
 - *false*
- conf.barbican_api_uwsgi.uwsgi.hook-master-start
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- conf.barbican_api_uwsgi.uwsgi.lazy-apps
 - Type: bool
 - Description:
 - *true*
- conf.barbican_api_uwsgi.uwsgi.log-x-forwarded-for
 - Type: bool
 - Description:
 - *true*
- conf.barbican_api_uwsgi.uwsgi.master
 - Type: bool
 - Description:
 - *true*
- conf.barbican_api_uwsgi.uwsgi.processes
 - Type: int
 - Description:
 - *1*
- conf.barbican_api_uwsgi.uwsgi.procname-prefix-spaced
 - Type: string
 - Description:

- *barbiacan-api*:
- `conf.barbican_api_uwsgi.uwsgi.route-user-agent`
 - Type: string
 - Description:
 - *^kubernetes-probe.* donotlog*:
- `conf.barbican_api_uwsgi.uwsgi.thunder-lock`
 - Type: bool
 - Description:
 - *true*
- `conf.barbican_api_uwsgi.uwsgi.worker-reload-mercy`
 - Type: int
 - Description:
 - *80*
- `conf.barbican_api_uwsgi.uwsgi.wsgi-file`
 - Type: string
 - Description:
 - */var/lib/openstack/bin/barbican-wsgi-api*
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log_formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.logging.formatters.keys[0]`

- Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - `()`
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - `(sys.stderr,)`
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:

- (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`

- Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_barbican.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_barbican.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_barbican.qualname`
 - Type: string
 - Description:
 - *barbican*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:

- *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*
- `conf.logging.loggers.keys[0]`

- Type: string
 - Description:
 - *root*
- conf.logging.loggers.keys[1]
 - Type: string
 - Description:
 - *barbican*
- conf.paste.app:apiapp.paste.app_factory
 - Type: string
 - Description:
 - *barbican.api.app:create_main_app*
- conf.paste.app:healthcheck.paste.app_factory
 - Type: string
 - Description:
 - *oslo_middleware:Healthcheck.app_factory*
- conf.paste.app:healthcheck.backends
 - Type: string
 - Description:
 - *disable_by_file*
- conf.paste.app:healthcheck.disable_by_file_path
 - Type: string
 - Description:
 - */etc/barbican/healthcheck_disable*
- conf.paste.app:versionapp.paste.app_factory
 - Type: string
 - Description:
 - *barbican.api.app:create_version_app*
- conf.paste.composite:main./
 - Type: string
 - Description:
 - *barbican_version*
- conf.paste.composite:main./healthcheck
 - Type: string
 - Description:

- *healthcheck*
- `conf.paste.composite:main./v1`
 - Type: string
 - Description:
 - *barbican-api-keystone*
- `conf.paste.composite:main.use`
 - Type: string
 - Description:
 - *egg:Paste#urlmap*
- `conf.paste.filter:audit.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.audit:filter_factory*
- `conf.paste.filter:audit.audit_map_file`
 - Type: string
 - Description:
 - */etc/barbican/api_audit_map.conf*
- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:context.paste.filter_factory`
 - Type: string
 - Description:
 - *barbican.api.middleware.context:ContextMiddleware.factory*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *barbican*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`

- Type: string
 - Description:
 - *oslo_middleware:HTTPProxyToWSGI,factory*
- conf.paste.filter:profile.cachegrind_filename
 - Type: string
 - Description:
 - *cachegrind.out.myapp*
- conf.paste.filter:profile.discard_first_request
 - Type: bool
 - Description:
 - *true*
- conf.paste.filter:profile.flush_at_shutdown
 - Type: bool
 - Description:
 - *true*
- conf.paste.filter:profile.log_filename
 - Type: string
 - Description:
 - *myapp.profile*
- conf.paste.filter:profile.path
 - Type: string
 - Description:
 - */__profile__*
- conf.paste.filter:profile.unwind
 - Type: bool
 - Description:
 - *false*
- conf.paste.filter:profile.use
 - Type: string
 - Description:
 - *egg:repoze.profile*
- conf.paste.filter:simple.paste.filter_factory
 - Type: string
 - Description:

- *barbican.api.middleware.simple:SimpleFilter.factory*
- `conf.paste.filter:unauthenticated-context.paste.filter_factory`
 - Type: string
 - Description:
 - *barbican.api.middleware.context:UnauthenticatedContextMiddleware.factory*
- `conf.paste.pipeline:barbican-api-keystone-audit.pipeline`
 - Type: string
 - Description:
 - *http_proxy_to_wsgi authtoken context audit apiapp*
- `conf.paste.pipeline:barbican-api-keystone.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi authtoken context apiapp*
- `conf.paste.pipeline:barbican-profile.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi unauthenticated-context egg:Paste#cglib egg:Paste#httpexceptions profile apiapp*
- `conf.paste.pipeline:barbican_api.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi unauthenticated-context apiapp*
- `conf.paste.pipeline:barbican_version.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi versionapp*
- `conf.policy`
 - Type: object
 - Description:
 - `{}`
- `conf.simple_crypto_kek_rewrap.old_kek`
 - Type: string
 - Description:
 - *dGhpcnR5X3R3b19ieXRlX2tleWJsYWWhibGFoYmxhaGg=*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`

- Type: string
- Description:
- *barbican-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *barbican-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *barbican-ks-user*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *barbican-ks-endpoints*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *barbican-rabbit-init*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:

- *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]

- Type: string
 - Description:
 - *barbican-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *barbican-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name

- Type: string
- Description:
- *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:

- *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.barbican.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.barbican.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.barbican.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.barbican.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.barbican.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.barbican.user_domain_name

- Type: string
- Description:
- *service*
- endpoints.identity.auth.barbican.username
 - Type: string
 - Description:
 - *barbican*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:

- 5000
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.ingress.hosts.default
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.name
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.ingress.port.ingress.default
 - Type: int
 - Description:
 - 80
- endpoints.key_manager.host_fqdn_override.default.tls.issuerRef.kind
 - Type: string
 - Description:
 - *ClusterIssuer*
- endpoints.key_manager.host_fqdn_override.default.tls.issuerRef.name
 - Type: string
 - Description:
 - *ca-clusterissuer*
- endpoints.key_manager.host_fqdn_override.default.tls.secretName
 - Type: string
 - Description:
 - *barbican-tls-internal*
- endpoints.key_manager.hosts.default

- Type: string
 - Description:
 - *barbican-api*
- endpoints.key_manager.hosts.public
 - Type: string
 - Description:
 - *barbican*
- endpoints.key_manager.name
 - Type: string
 - Description:
 - *barbican*
- endpoints.key_manager.path.default
 - Type: string
 - Description:
 - /
- endpoints.key_manager.path.healthcheck
 - Type: string
 - Description:
 - */healthcheck*
- endpoints.key_manager.port.api.default
 - Type: int
 - Description:
 - *9311*
- endpoints.key_manager.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.key_manager.port.api.service
 - Type: int
 - Description:
 - *9311*
- endpoints.key_manager.scheme.default
 - Type: string
 - Description:

- *http*
- endpoints.key_manager.scheme.service
 - Type: string
 - Description:
 - *http*
- endpoints.kube_dns.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.kube_dns.hosts.default
 - Type: string
 - Description:
 - *kube-dns*
- endpoints.kube_dns.name
 - Type: string
 - Description:
 - *kubernetes-dns*
- endpoints.kube_dns.namespace
 - Type: string
 - Description:
 - *kube-system*
- endpoints.kube_dns.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.kube_dns.port.dns.default
 - Type: int
 - Description:
 - *53*
- endpoints.kube_dns.port.dns.protocol
 - Type: string
 - Description:
 - *UDP*
- endpoints.kube_dns.scheme

- Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.barbican.password
 - Type: string
 - Description:

- *password*
- endpoints.oci_image_registry.auth.barbican.username
 - Type: string
 - Description:
 - *barbican*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default

- Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *mariadb-tls-direct*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.barbican.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.barbican.username
 - Type: string
 - Description:
 - *barbican*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:

- *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */barbican*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *rabbitmq-tls-direct*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.barbican.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.barbican.username

- Type: string
 - Description:
 - *barbican*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */barbican*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:

- 2
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.barbican_api
 - Type: string
 - Description:
 - *quay.io/airshipit/barbican:2024.1-ubuntu_jammy*
- images.tags.barbican_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/barbican:2024.1-ubuntu_jammy*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop

- Type: string
- Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.scripted_test
 - Type: string
 - Description:

- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.certificates
 - Type: bool
 - Description:
 - *false*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc

- Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:

- *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.pod_test
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone

- Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:

- *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30486*
- network_policy.barbican.egress[0]
 - Type: object
 - Description:
 - *{}*
- network_policy.barbican.ingress[0]
 - Type: object
 - Description:
 - *{}*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available

- Type: int
 - Description:
 - *0*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.barbican_api.barbican_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_api.barbican_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_bootstrap.barbican_bootstrap.volumeMounts
 - Type: string
 - Description:

- *nil*
- pod.mounts.barbican_bootstrap.barbican_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_db_sync.barbican_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_db_sync.barbican_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_tests.barbican_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_tests.barbican_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.barbican_tests.init_container
 - Type: string
 - Description:
 - *nil*
- pod.probes.api.barbican-api.liveness.enabled
 - Type: bool
 - Description:
 - *true*
- pod.probes.api.barbican-api.liveness.params.initialDelaySeconds

- Type: int
 - Description:
 - 5
- pod.probes.api.barbican-api.liveness.params.periodSeconds
 - Type: int
 - Description:
 - 10
- pod.probes.api.barbican-api.liveness.params.timeoutSeconds
 - Type: int
 - Description:
 - 5
- pod.probes.api.barbican-api.readiness.enabled
 - Type: bool
 - Description:
 - *true*
- pod.probes.api.barbican-api.readiness.params.periodSeconds
 - Type: int
 - Description:
 - 10
- pod.probes.api.barbican-api.readiness.params.timeoutSeconds
 - Type: int
 - Description:
 - 5
- pod.replicas.api
 - Type: int
 - Description:
 - 1
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - 2000m
- pod.resources.api.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu

- Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.security_context.barbican.container.barbican_api.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.barbican.container.barbican_api.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.barbican.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.security_context.test.container.barbican_test.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.test.container.barbican_test.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.test.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.tolerations.barbican.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.barbican.tolerations[0].effect
 - Type: string
 - Description:

- *NoSchedule*
- pod.tolerations.barbican.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.barbican.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.barbican.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.barbican.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.barbican.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *barbican-keystone-admin*
- secrets.identity.barbican
 - Type: string
 - Description:
 - *barbican-keystone-user*
- secrets.oci_image_registry.barbican

- Type: string
 - Description:
 - *barbican-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *barbican-db-admin*
- secrets.oslo_db.barbican
 - Type: string
 - Description:
 - *barbican-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *barbican-rabbitmq-admin*
- secrets.oslo_messaging.barbican
 - Type: string
 - Description:
 - *barbican-rabbitmq-user*
- secrets.tls.key_manager.api.internal
 - Type: string
 - Description:
 - *barbican-tls-internal*
- secrets.tls.key_manager.api.public
 - Type: string
 - Description:
 - *barbican-tls-public*
- tls.identity
 - Type: bool
 - Description:
 - *false*
- tls.oslo_db
 - Type: bool
 - Description:

- *false*
- `tls.oslo_messaging`
 - Type: `bool`
 - Description:
 - *false*

3.3 Ceilometer

There are various customizations you can do to tailor the deployment of OpenStack Ceilometer. You can find those below.

3.3.1 General Parameters

- `bootstrap.enabled`
 - Type: `bool`
 - Description:
 - *false*
- `bootstrap.ks_user`
 - Type: `string`
 - Description:
 - *ceilometer*
- `bootstrap.script`
 - Type: `string`
 - Description:
 - `openstack token issue`
- `conf.audit_api_map.DEFAULT.target_endpoint_type`
 - Type: `string`
 - Description:
 - *None*
- `conf.audit_api_map.path_keywords.meters`
 - Type: `string`
 - Description:
 - *meter_name*
- `conf.audit_api_map.path_keywords.resources`
 - Type: `string`
 - Description:
 - *resource_id*

- `conf.audit_api_map.path_keywords.samples`
 - Type: string
 - Description:
 - *sample_id*
- `conf.audit_api_map.path_keywords.statistics`
 - Type: string
 - Description:
 - *None*
- `conf.audit_api_map.service_endpoints.metering`
 - Type: string
 - Description:
 - *service/metering*
- `conf.ceilometer.DEFAULT.event_dispatchers.type`
 - Type: string
 - Description:
 - *multistring*
- `conf.ceilometer.DEFAULT.event_dispatchers.values[0]`
 - Type: string
 - Description:
 - *database*
- `conf.ceilometer.DEFAULT.meter_dispatchers.type`
 - Type: string
 - Description:
 - *multistring*
- `conf.ceilometer.DEFAULT.meter_dispatchers.values[0]`
 - Type: string
 - Description:
 - *database*
- `conf.ceilometer.DEFAULT.meter_dispatchers.values[1]`
 - Type: string
 - Description:
 - *gnocchi*
- `conf.ceilometer.api.aodh_is_enabled`
 - Type: string

- Description:
 - *False*
- conf.ceilometer.cache.backend
 - Type: string
 - Description:
 - *dogpile.cache.memcached*
- conf.ceilometer.cache.enabled
 - Type: bool
 - Description:
 - *true*
- conf.ceilometer.cache.expiration_time
 - Type: int
 - Description:
 - *86400*
- conf.ceilometer.database.max_retries
 - Type: int
 - Description:
 - *-1*
- conf.ceilometer.dispatcher.archive_policy
 - Type: string
 - Description:
 - *low*
- conf.ceilometer.dispatcher.filter_project
 - Type: string
 - Description:
 - *service*
- conf.ceilometer.dispatcher_gnocchi.archive_policy
 - Type: string
 - Description:
 - *low*
- conf.ceilometer.dispatcher_gnocchi.filter_service_activity
 - Type: bool
 - Description:
 - *false*

- `conf.ceilometer.dispatcher_gnocchi.resources_definition_file`
 - Type: string
 - Description:
 - */etc/ceilometer/gnocchi_resources.yaml*
- `conf.ceilometer.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.ceilometer.keystone_authtoken.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.ceilometer.notification.messaging_urls.type`
 - Type: string
 - Description:
 - *multistring*
- `conf.ceilometer.notification.messaging_urls.values[0]`
 - Type: string
 - Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/ceilometer*
- `conf.ceilometer.notification.messaging_urls.values[1]`
 - Type: string
 - Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/cinder*
- `conf.ceilometer.notification.messaging_urls.values[2]`
 - Type: string
 - Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/glance*
- `conf.ceilometer.notification.messaging_urls.values[3]`
 - Type: string
 - Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/nova*
- `conf.ceilometer.notification.messaging_urls.values[4]`
 - Type: string

- Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/keystone*
- `conf.ceilometer.notification.messaging_urls.values[5]`
 - Type: string
 - Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/neutron*
- `conf.ceilometer.notification.messaging_urls.values[6]`
 - Type: string
 - Description:
 - *rabbit://rabbitmq:password@rabbitmq.openstack.svc.cluster.local:5672/heat*
- `conf.ceilometer.oslo_messaging_notifications.driver`
 - Type: string
 - Description:
 - *messagingv2*
- `conf.ceilometer.oslo_messaging_notifications.topics[0]`
 - Type: string
 - Description:
 - *notifications*
- `conf.ceilometer.oslo_messaging_notifications.topics[1]`
 - Type: string
 - Description:
 - *profiler*
- `conf.ceilometer.oslo_policy.policy_file`
 - Type: string
 - Description:
 - */etc/ceilometer/policy.yaml*
- `conf.ceilometer.service_credentials.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.ceilometer.service_credentials.interface`
 - Type: string
 - Description:
 - *internal*

- `conf.event_definitions[0].event_type`
 - Type: string
 - Description:
 - *compute.instance.**
- `conf.event_definitions[0].traits.deleted_at.fields`
 - Type: string
 - Description:
 - *payload.deleted_at*
- `conf.event_definitions[0].traits.deleted_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[0].traits.disk_gb.fields`
 - Type: string
 - Description:
 - *payload.disk_gb*
- `conf.event_definitions[0].traits.disk_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[0].traits.ephemeral_gb.fields`
 - Type: string
 - Description:
 - *payload.ephemeral_gb*
- `conf.event_definitions[0].traits.ephemeral_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[0].traits.host.fields`
 - Type: string
 - Description:
 - *publisher_id.split(., 1, 1)*
- `conf.event_definitions[0].traits.instance_id.fields`
 - Type: string

- Description:
 - *payload.instance_id*
- `conf.event_definitions[0].traits.instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[0].traits.instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[0].traits.instance_type_id.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[0].traits.launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[0].traits.launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[0].traits.memory_mb.fields`
 - Type: string
 - Description:
 - *payload.memory_mb*
- `conf.event_definitions[0].traits.memory_mb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[0].traits.os_architecture.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__architecture*

- `conf.event_definitions[0].traits.os_distro.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__os_distro*
- `conf.event_definitions[0].traits.os_version.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__os_version*
- `conf.event_definitions[0].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[0].traits.root_gb.fields`
 - Type: string
 - Description:
 - *payload.root_gb*
- `conf.event_definitions[0].traits.root_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[0].traits.service.fields`
 - Type: string
 - Description:
 - *publisher_id.split(., 0, -1)*
- `conf.event_definitions[0].traits.state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[0].traits.tenant_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*
- `conf.event_definitions[0].traits.user_id.fields`
 - Type: string

- Description:
 - *payload.user_id*
- `conf.event_definitions[0].traits.vcpus.fields`
 - Type: string
 - Description:
 - *payload.vcpus*
- `conf.event_definitions[0].traits.vcpus.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[10].event_type`
 - Type: string
 - Description:
 - *sahara.cluster.**
- `conf.event_definitions[10].traits.project_id.fields`
 - Type: string
 - Description:
 - *payload.project_id*
- `conf.event_definitions[10].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.cluster_id*
- `conf.event_definitions[10].traits.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[11].event_type`
 - Type: string
 - Description:
 - *sahara.cluster.health*
- `conf.event_definitions[11].traits.<.project_id.fields`
 - Type: string
 - Description:
 - *payload.project_id*

- `conf.event_definitions[11].traits.«.resource_id.fields`
 - Type: string
 - Description:
 - *payload.cluster_id*
- `conf.event_definitions[11].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[11].traits.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[11].traits.created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[11].traits.health_check_description.fields`
 - Type: string
 - Description:
 - *payload.health_check_description*
- `conf.event_definitions[11].traits.health_check_name.fields`
 - Type: string
 - Description:
 - *payload.health_check_name*
- `conf.event_definitions[11].traits.health_check_status.fields`
 - Type: string
 - Description:
 - *payload.health_check_status*
- `conf.event_definitions[11].traits.updated_at.fields`
 - Type: string
 - Description:
 - *payload.updated_at*
- `conf.event_definitions[11].traits.updated_at.type`
 - Type: string

- Description:
 - *datetime*
- `conf.event_definitions[11].traits.verification_id.fields`
 - Type: string
 - Description:
 - *payload.verification_id*
- `conf.event_definitions[12].event_type[0]`
 - Type: string
 - Description:
 - *identity.user.**
- `conf.event_definitions[12].event_type[1]`
 - Type: string
 - Description:
 - *identity.project.**
- `conf.event_definitions[12].event_type[2]`
 - Type: string
 - Description:
 - *identity.group.**
- `conf.event_definitions[12].event_type[3]`
 - Type: string
 - Description:
 - *identity.role.**
- `conf.event_definitions[12].event_type[4]`
 - Type: string
 - Description:
 - *identity.OS-TRUST:trust.**
- `conf.event_definitions[12].event_type[5]`
 - Type: string
 - Description:
 - *identity.region.**
- `conf.event_definitions[12].event_type[6]`
 - Type: string
 - Description:
 - *identity.service.**

- `conf.event_definitions[12].event_type[7]`
 - Type: string
 - Description:
 - *identity.endpoint.**
- `conf.event_definitions[12].event_type[8]`
 - Type: string
 - Description:
 - *identity.policy.**
- `conf.event_definitions[12].traits.domain_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.domain_id*
- `conf.event_definitions[12].traits.initiator_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*
- `conf.event_definitions[12].traits.project_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.project_id*
- `conf.event_definitions[12].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.resource_info*
- `conf.event_definitions[13].event_type`
 - Type: string
 - Description:
 - *identity.role_assignment.**
- `conf.event_definitions[13].traits.domain.fields`
 - Type: string
 - Description:
 - *payload.domain*
- `conf.event_definitions[13].traits.group.fields`
 - Type: string

- Description:
 - *payload.group*
- `conf.event_definitions[13].traits.project.fields`
 - Type: string
 - Description:
 - *payload.project*
- `conf.event_definitions[13].traits.role.fields`
 - Type: string
 - Description:
 - *payload.role*
- `conf.event_definitions[13].traits.user.fields`
 - Type: string
 - Description:
 - *payload.user*
- `conf.event_definitions[14].event_type`
 - Type: string
 - Description:
 - *identity.authenticate*
- `conf.event_definitions[14].traits.action.fields`
 - Type: string
 - Description:
 - *payload.action*
- `conf.event_definitions[14].traits.eventTime.fields`
 - Type: string
 - Description:
 - *payload.eventTime*
- `conf.event_definitions[14].traits.eventType.fields`
 - Type: string
 - Description:
 - *payload.eventType*
- `conf.event_definitions[14].traits.id.fields`
 - Type: string
 - Description:
 - *payload.id*

- `conf.event_definitions[14].traits.initiator_host_addr.fields`
 - Type: string
 - Description:
 - *payload.initiator.host.address*
- `conf.event_definitions[14].traits.initiator_host_agent.fields`
 - Type: string
 - Description:
 - *payload.initiator.host.agent*
- `conf.event_definitions[14].traits.initiator_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*
- `conf.event_definitions[14].traits.initiator_name.fields`
 - Type: string
 - Description:
 - *payload.initiator.name*
- `conf.event_definitions[14].traits.initiator_typeURI.fields`
 - Type: string
 - Description:
 - *payload.initiator.typeURI*
- `conf.event_definitions[14].traits.observer_id.fields`
 - Type: string
 - Description:
 - *payload.observer.id*
- `conf.event_definitions[14].traits.observer_typeURI.fields`
 - Type: string
 - Description:
 - *payload.observer.typeURI*
- `conf.event_definitions[14].traits.outcome.fields`
 - Type: string
 - Description:
 - *payload.outcome*
- `conf.event_definitions[14].traits.target_id.fields`
 - Type: string

- Description:
 - *payload.target.id*
- `conf.event_definitions[14].traits.target_typeURI.fields`
 - Type: string
 - Description:
 - *payload.target.typeURI*
- `conf.event_definitions[14].traits.typeURI.fields`
 - Type: string
 - Description:
 - *payload.typeURI*
- `conf.event_definitions[15].event_type`
 - Type: string
 - Description:
 - *objectstore.http.request*
- `conf.event_definitions[15].traits.action.fields`
 - Type: string
 - Description:
 - *payload.action*
- `conf.event_definitions[15].traits.eventTime.fields`
 - Type: string
 - Description:
 - *payload.eventTime*
- `conf.event_definitions[15].traits.eventType.fields`
 - Type: string
 - Description:
 - *payload.eventType*
- `conf.event_definitions[15].traits.id.fields`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[15].traits.initiator_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*

- `conf.event_definitions[15].traits.initiator_project_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.project_id*
- `conf.event_definitions[15].traits.initiator_typeURI.fields`
 - Type: string
 - Description:
 - *payload.initiator.typeURI*
- `conf.event_definitions[15].traits.observer_id.fields`
 - Type: string
 - Description:
 - *payload.observer.id*
- `conf.event_definitions[15].traits.outcome.fields`
 - Type: string
 - Description:
 - *payload.outcome*
- `conf.event_definitions[15].traits.target_action.fields`
 - Type: string
 - Description:
 - *payload.target.action*
- `conf.event_definitions[15].traits.target_id.fields`
 - Type: string
 - Description:
 - *payload.target.id*
- `conf.event_definitions[15].traits.target_metadata_container.fields`
 - Type: string
 - Description:
 - *payload.target.metadata.container*
- `conf.event_definitions[15].traits.target_metadata_object.fields`
 - Type: string
 - Description:
 - *payload.target.metadata.object*
- `conf.event_definitions[15].traits.target_metadata_path.fields`
 - Type: string

- Description:
- *payload.target.metadata.path*
- `conf.event_definitions[15].traits.target_metadata_version.fields`
 - Type: string
 - Description:
 - *payload.target.metadata.version*
- `conf.event_definitions[15].traits.target_typeURI.fields`
 - Type: string
 - Description:
 - *payload.target.typeURI*
- `conf.event_definitions[15].traits.typeURI.fields`
 - Type: string
 - Description:
 - *payload.typeURI*
- `conf.event_definitions[16].event_type[0]`
 - Type: string
 - Description:
 - *network.**
- `conf.event_definitions[16].event_type[10]`
 - Type: string
 - Description:
 - *listener.**
- `conf.event_definitions[16].event_type[11]`
 - Type: string
 - Description:
 - *loadbalancer.**
- `conf.event_definitions[16].event_type[12]`
 - Type: string
 - Description:
 - *firewall.**
- `conf.event_definitions[16].event_type[13]`
 - Type: string
 - Description:
 - *firewall_policy.**

- `conf.event_definitions[16].event_type[14]`
 - Type: string
 - Description:
 - *firewall_rule.**
- `conf.event_definitions[16].event_type[15]`
 - Type: string
 - Description:
 - *vpnservice.**
- `conf.event_definitions[16].event_type[16]`
 - Type: string
 - Description:
 - *ipsecpolicy.**
- `conf.event_definitions[16].event_type[17]`
 - Type: string
 - Description:
 - *ikepolicy.**
- `conf.event_definitions[16].event_type[18]`
 - Type: string
 - Description:
 - *ipsec_site_connection.**
- `conf.event_definitions[16].event_type[1]`
 - Type: string
 - Description:
 - *subnet.**
- `conf.event_definitions[16].event_type[2]`
 - Type: string
 - Description:
 - *port.**
- `conf.event_definitions[16].event_type[3]`
 - Type: string
 - Description:
 - *router.**
- `conf.event_definitions[16].event_type[4]`
 - Type: string

- Description:
 - *floatingip*.*
- conf.event_definitions[16].event_type[5]
 - Type: string
 - Description:
 - *pool*.*
- conf.event_definitions[16].event_type[6]
 - Type: string
 - Description:
 - *vip*.*
- conf.event_definitions[16].event_type[7]
 - Type: string
 - Description:
 - *member*.*
- conf.event_definitions[16].event_type[8]
 - Type: string
 - Description:
 - *health_monitor*.*
- conf.event_definitions[16].event_type[9]
 - Type: string
 - Description:
 - *healthmonitor*.*
- conf.event_definitions[16].traits.project_id.fields
 - Type: string
 - Description:
 - *_context_tenant_id*
- conf.event_definitions[16].traits.user_id.fields
 - Type: string
 - Description:
 - *_context_user_id*
- conf.event_definitions[17].event_type
 - Type: string
 - Description:
 - *network*.*

- `conf.event_definitions[17].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[17].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[17].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.network.id*
- `conf.event_definitions[17].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[18].event_type`
 - Type: string
 - Description:
 - *subnet.**
- `conf.event_definitions[18].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[18].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[18].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.subnet.id*
- `conf.event_definitions[18].traits.resource_id.fields[1]`
 - Type: string

- Description:
- *payload.id*
- `conf.event_definitions[19].event_type`
 - Type: string
 - Description:
 - *port.**
- `conf.event_definitions[19].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[19].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[19].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.port.id*
- `conf.event_definitions[19].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[1].event_type`
 - Type: string
 - Description:
 - *compute.instance.update*
- `conf.event_definitions[1].traits.«.deleted_at.fields`
 - Type: string
 - Description:
 - *payload.deleted_at*
- `conf.event_definitions[1].traits.«.deleted_at.type`
 - Type: string
 - Description:
 - *datetime*

- `conf.event_definitions[1].traits.«.disk_gb.fields`
 - Type: string
 - Description:
 - *payload.disk_gb*
- `conf.event_definitions[1].traits.«.disk_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[1].traits.«.ephemeral_gb.fields`
 - Type: string
 - Description:
 - *payload.ephemeral_gb*
- `conf.event_definitions[1].traits.«.ephemeral_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[1].traits.«.host.fields`
 - Type: string
 - Description:
 - *publisher_id. 'split(., 1, 1)'*
- `conf.event_definitions[1].traits.«.instance_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[1].traits.«.instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[1].traits.«.instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[1].traits.«.instance_type_id.type`
 - Type: string

- Description:
- *int*
- `conf.event_definitions[1].traits.«.launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[1].traits.«.launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[1].traits.«.memory_mb.fields`
 - Type: string
 - Description:
 - *payload.memory_mb*
- `conf.event_definitions[1].traits.«.memory_mb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[1].traits.«.os_architecture.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__architecture*
- `conf.event_definitions[1].traits.«.os_distro.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__os_distro*
- `conf.event_definitions[1].traits.«.os_version.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__os_version*
- `conf.event_definitions[1].traits.«.resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*

- `conf.event_definitions[1].traits.«.root_gb.fields`
 - Type: string
 - Description:
 - *payload.root_gb*
- `conf.event_definitions[1].traits.«.root_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[1].traits.«.service.fields`
 - Type: string
 - Description:
 - *publisher_id*. ‘split(., 0, -1)’
- `conf.event_definitions[1].traits.«.state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[1].traits.«.tenant_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*
- `conf.event_definitions[1].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[1].traits.«.vcpus.fields`
 - Type: string
 - Description:
 - *payload.vcpus*
- `conf.event_definitions[1].traits.«.vcpus.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[1].traits.old_state.fields`
 - Type: string

- Description:
- *payload.old_state*
- `conf.event_definitions[20].event_type`
 - Type: string
 - Description:
 - *router.**
- `conf.event_definitions[20].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[20].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[20].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.router.id*
- `conf.event_definitions[20].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[21].event_type`
 - Type: string
 - Description:
 - *floatingip.**
- `conf.event_definitions[21].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[21].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*

- `conf.event_definitions[21].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.floatingip.id*
- `conf.event_definitions[21].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[22].event_type`
 - Type: string
 - Description:
 - *pool.**
- `conf.event_definitions[22].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[22].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[22].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.pool.id*
- `conf.event_definitions[22].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[23].event_type`
 - Type: string
 - Description:
 - *vip.**
- `conf.event_definitions[23].traits.«.project_id.fields`
 - Type: string

- Description:
 - *_context_tenant_id*
- `conf.event_definitions[23].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[23].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.vip.id*
- `conf.event_definitions[23].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[24].event_type`
 - Type: string
 - Description:
 - *member.**
- `conf.event_definitions[24].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[24].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[24].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.member.id*
- `conf.event_definitions[24].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*

- `conf.event_definitions[25].event_type`
 - Type: string
 - Description:
 - *health_monitor.**
- `conf.event_definitions[25].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[25].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[25].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.health_monitor.id*
- `conf.event_definitions[25].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[26].event_type`
 - Type: string
 - Description:
 - *healthmonitor.**
- `conf.event_definitions[26].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[26].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[26].traits.resource_id.fields[0]`
 - Type: string

- Description:
 - *payload.healthmonitor.id*
- `conf.event_definitions[26].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[27].event_type`
 - Type: string
 - Description:
 - *listener.**
- `conf.event_definitions[27].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[27].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[27].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.listener.id*
- `conf.event_definitions[27].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[28].event_type`
 - Type: string
 - Description:
 - *loadbalancer.**
- `conf.event_definitions[28].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*

- `conf.event_definitions[28].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[28].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.loadbalancer.id*
- `conf.event_definitions[28].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[29].event_type`
 - Type: string
 - Description:
 - *firewall.**
- `conf.event_definitions[29].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[29].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[29].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.firewall.id*
- `conf.event_definitions[29].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[2].event_type`
 - Type: string

- Description:
- *compute.instance.exists*
- `conf.event_definitions[2].traits.«.deleted_at.fields`
 - Type: string
 - Description:
 - *payload.deleted_at*
- `conf.event_definitions[2].traits.«.deleted_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[2].traits.«.disk_gb.fields`
 - Type: string
 - Description:
 - *payload.disk_gb*
- `conf.event_definitions[2].traits.«.disk_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[2].traits.«.ephemeral_gb.fields`
 - Type: string
 - Description:
 - *payload.ephemeral_gb*
- `conf.event_definitions[2].traits.«.ephemeral_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[2].traits.«.host.fields`
 - Type: string
 - Description:
 - *publisher_id.split(., 1, 1)*
- `conf.event_definitions[2].traits.«.instance_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*

- `conf.event_definitions[2].traits.«.instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[2].traits.«.instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[2].traits.«.instance_type_id.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[2].traits.«.launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[2].traits.«.launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[2].traits.«.memory_mb.fields`
 - Type: string
 - Description:
 - *payload.memory_mb*
- `conf.event_definitions[2].traits.«.memory_mb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[2].traits.«.os_architecture.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__architecture*
- `conf.event_definitions[2].traits.«.os_distro.fields`
 - Type: string

- Description:
 - *payload.image_meta.org.openstack__1__os_distro*
- `conf.event_definitions[2].traits.«.os_version.fields`
 - Type: string
 - Description:
 - *payload.image_meta.org.openstack__1__os_version*
- `conf.event_definitions[2].traits.«.resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[2].traits.«.root_gb.fields`
 - Type: string
 - Description:
 - *payload.root_gb*
- `conf.event_definitions[2].traits.«.root_gb.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[2].traits.«.service.fields`
 - Type: string
 - Description:
 - *publisher_id.split(., 0, -1)*
- `conf.event_definitions[2].traits.«.state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[2].traits.«.tenant_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*
- `conf.event_definitions[2].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*

- `conf.event_definitions[2].traits.«.vcpus.fields`
 - Type: string
 - Description:
 - *payload.vcpus*
- `conf.event_definitions[2].traits.«.vcpus.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[2].traits.audit_period_beginning.fields`
 - Type: string
 - Description:
 - *payload.audit_period_beginning*
- `conf.event_definitions[2].traits.audit_period_beginning.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[2].traits.audit_period_ending.fields`
 - Type: string
 - Description:
 - *payload.audit_period_ending*
- `conf.event_definitions[2].traits.audit_period_ending.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[30].event_type`
 - Type: string
 - Description:
 - *firewall_policy.**
- `conf.event_definitions[30].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[30].traits.«.user_id.fields`
 - Type: string

- Description:
 - *_context_user_id*
- `conf.event_definitions[30].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.firewall_policy.id*
- `conf.event_definitions[30].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[31].event_type`
 - Type: string
 - Description:
 - *firewall_rule.**
- `conf.event_definitions[31].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[31].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[31].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.firewall_rule.id*
- `conf.event_definitions[31].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[32].event_type`
 - Type: string
 - Description:
 - *vpnservice.**

- `conf.event_definitions[32].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[32].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[32].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.vpnservice.id*
- `conf.event_definitions[32].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[33].event_type`
 - Type: string
 - Description:
 - *ipsecpolicy.**
- `conf.event_definitions[33].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[33].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[33].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.ipsecpolicy.id*
- `conf.event_definitions[33].traits.resource_id.fields[1]`
 - Type: string

- Description:
- *payload.id*
- `conf.event_definitions[34].event_type`
 - Type: string
 - Description:
 - *ikepolicy.**
- `conf.event_definitions[34].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[34].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_definitions[34].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.ikepolicy.id*
- `conf.event_definitions[34].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[35].event_type`
 - Type: string
 - Description:
 - *ipsec_site_connection.**
- `conf.event_definitions[35].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *_context_tenant_id*
- `conf.event_definitions[35].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *_context_user_id*

- `conf.event_definitions[35].traits.resource_id.fields[0]`
 - Type: string
 - Description:
 - *payload.ipsec_site_connection.id*
- `conf.event_definitions[35].traits.resource_id.fields[1]`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[36].event_type`
 - Type: string
 - Description:
 - **http.**
- `conf.event_definitions[36].traits.action.fields`
 - Type: string
 - Description:
 - *payload.action*
- `conf.event_definitions[36].traits.eventTime.fields`
 - Type: string
 - Description:
 - *payload.eventTime*
- `conf.event_definitions[36].traits.eventType.fields`
 - Type: string
 - Description:
 - *payload.eventType*
- `conf.event_definitions[36].traits.id.fields`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[36].traits.initiator_host_address.fields`
 - Type: string
 - Description:
 - *payload.initiator.host.address*
- `conf.event_definitions[36].traits.initiator_id.fields`
 - Type: string

- Description:
 - *payload.initiator.id*
- `conf.event_definitions[36].traits.initiator_name.fields`
 - Type: string
 - Description:
 - *payload.initiator.name*
- `conf.event_definitions[36].traits.initiator_typeURI.fields`
 - Type: string
 - Description:
 - *payload.initiator.typeURI*
- `conf.event_definitions[36].traits.observer_id.fields`
 - Type: string
 - Description:
 - *payload.observer.id*
- `conf.event_definitions[36].traits.outcome.fields`
 - Type: string
 - Description:
 - *payload.outcome*
- `conf.event_definitions[36].traits.project_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.project_id*
- `conf.event_definitions[36].traits.requestPath.fields`
 - Type: string
 - Description:
 - *payload.requestPath*
- `conf.event_definitions[36].traits.target_id.fields`
 - Type: string
 - Description:
 - *payload.target.id*
- `conf.event_definitions[36].traits.target_name.fields`
 - Type: string
 - Description:
 - *payload.target.name*

- `conf.event_definitions[36].traits.target_typeURI.fields`
 - Type: string
 - Description:
 - *payload.target.typeURI*
- `conf.event_definitions[36].traits.typeURI.fields`
 - Type: string
 - Description:
 - *payload.typeURI*
- `conf.event_definitions[36].traits.user_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*
- `conf.event_definitions[37].event_type`
 - Type: string
 - Description:
 - **http.response*
- `conf.event_definitions[37].traits.«.action.fields`
 - Type: string
 - Description:
 - *payload.action*
- `conf.event_definitions[37].traits.«.eventTime.fields`
 - Type: string
 - Description:
 - *payload.eventTime*
- `conf.event_definitions[37].traits.«.eventType.fields`
 - Type: string
 - Description:
 - *payload.eventType*
- `conf.event_definitions[37].traits.«.id.fields`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[37].traits.«.initiator_host_address.fields`
 - Type: string

- Description:
 - *payload.initiator.host.address*
- `conf.event_definitions[37].traits.«.initiator_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*
- `conf.event_definitions[37].traits.«.initiator_name.fields`
 - Type: string
 - Description:
 - *payload.initiator.name*
- `conf.event_definitions[37].traits.«.initiator_typeURI.fields`
 - Type: string
 - Description:
 - *payload.initiator.typeURI*
- `conf.event_definitions[37].traits.«.observer_id.fields`
 - Type: string
 - Description:
 - *payload.observer.id*
- `conf.event_definitions[37].traits.«.outcome.fields`
 - Type: string
 - Description:
 - *payload.outcome*
- `conf.event_definitions[37].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.project_id*
- `conf.event_definitions[37].traits.«.requestPath.fields`
 - Type: string
 - Description:
 - *payload.requestPath*
- `conf.event_definitions[37].traits.«.target_id.fields`
 - Type: string
 - Description:
 - *payload.target.id*

- `conf.event_definitions[37].traits.«.target_name.fields`
 - Type: string
 - Description:
 - *payload.target.name*
- `conf.event_definitions[37].traits.«.target_typeURI.fields`
 - Type: string
 - Description:
 - *payload.target.typeURI*
- `conf.event_definitions[37].traits.«.typeURI.fields`
 - Type: string
 - Description:
 - *payload.typeURI*
- `conf.event_definitions[37].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*
- `conf.event_definitions[37].traits.reason_code.fields`
 - Type: string
 - Description:
 - *payload.reason.reasonCode*
- `conf.event_definitions[38].event_type[0]`
 - Type: string
 - Description:
 - *dns.domain.create*
- `conf.event_definitions[38].event_type[1]`
 - Type: string
 - Description:
 - *dns.domain.update*
- `conf.event_definitions[38].event_type[2]`
 - Type: string
 - Description:
 - *dns.domain.delete*
- `conf.event_definitions[38].traits.action.fields`
 - Type: string

- Description:
 - *payload.action*
- `conf.event_definitions[38].traits.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[38].traits.description.fields`
 - Type: string
 - Description:
 - *payload.description*
- `conf.event_definitions[38].traits.email.fields`
 - Type: string
 - Description:
 - *payload.email*
- `conf.event_definitions[38].traits.expire.fields`
 - Type: string
 - Description:
 - *payload.expire*
- `conf.event_definitions[38].traits.name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[38].traits.parent_domain_id.fields`
 - Type: string
 - Description:
 - *parent_domain_id*
- `conf.event_definitions[38].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[38].traits.retry.fields`
 - Type: string
 - Description:
 - *payload.retry*

- `conf.event_definitions[38].traits.serial.fields`
 - Type: string
 - Description:
 - *payload.serial*
- `conf.event_definitions[38].traits.status.fields`
 - Type: string
 - Description:
 - *payload.status*
- `conf.event_definitions[38].traits.ttl.fields`
 - Type: string
 - Description:
 - *payload.ttl*
- `conf.event_definitions[38].traits.updated_at.fields`
 - Type: string
 - Description:
 - *payload.updated_at*
- `conf.event_definitions[38].traits.version.fields`
 - Type: string
 - Description:
 - *payload.version*
- `conf.event_definitions[39].event_type`
 - Type: string
 - Description:
 - *dns.domain.exists*
- `conf.event_definitions[39].traits.«.action.fields`
 - Type: string
 - Description:
 - *payload.action*
- `conf.event_definitions[39].traits.«.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[39].traits.«.description.fields`
 - Type: string

- Description:
 - *payload.description*
- `conf.event_definitions[39].traits.«.email.fields`
 - Type: string
 - Description:
 - *payload.email*
- `conf.event_definitions[39].traits.«.expire.fields`
 - Type: string
 - Description:
 - *payload.expire*
- `conf.event_definitions[39].traits.«.name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[39].traits.«.parent_domain_id.fields`
 - Type: string
 - Description:
 - *parent_domain_id*
- `conf.event_definitions[39].traits.«.resource_id.fields`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[39].traits.«.retry.fields`
 - Type: string
 - Description:
 - *payload.retry*
- `conf.event_definitions[39].traits.«.serial.fields`
 - Type: string
 - Description:
 - *payload.serial*
- `conf.event_definitions[39].traits.«.status.fields`
 - Type: string
 - Description:
 - *payload.status*

- `conf.event_definitions[39].traits.«.ttl.fields`
 - Type: string
 - Description:
 - *payload.ttl*
- `conf.event_definitions[39].traits.«.updated_at.fields`
 - Type: string
 - Description:
 - *payload.updated_at*
- `conf.event_definitions[39].traits.«.version.fields`
 - Type: string
 - Description:
 - *payload.version*
- `conf.event_definitions[39].traits.audit_period_beginning.fields`
 - Type: string
 - Description:
 - *payload.audit_period_beginning*
- `conf.event_definitions[39].traits.audit_period_beginning.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[39].traits.audit_period_ending.fields`
 - Type: string
 - Description:
 - *payload.audit_period_ending*
- `conf.event_definitions[39].traits.audit_period_ending.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[3].event_type[0]`
 - Type: string
 - Description:
 - *volume.exists*
- `conf.event_definitions[3].event_type[10]`
 - Type: string

- Description:
 - *snapshot.update.**
- `conf.event_definitions[3].event_type[1]`
 - Type: string
 - Description:
 - *volume.create.**
- `conf.event_definitions[3].event_type[2]`
 - Type: string
 - Description:
 - *volume.delete.**
- `conf.event_definitions[3].event_type[3]`
 - Type: string
 - Description:
 - *volume.resize.**
- `conf.event_definitions[3].event_type[4]`
 - Type: string
 - Description:
 - *volume.attach.**
- `conf.event_definitions[3].event_type[5]`
 - Type: string
 - Description:
 - *volume.detach.**
- `conf.event_definitions[3].event_type[6]`
 - Type: string
 - Description:
 - *volume.update.**
- `conf.event_definitions[3].event_type[7]`
 - Type: string
 - Description:
 - *snapshot.exists*
- `conf.event_definitions[3].event_type[8]`
 - Type: string
 - Description:
 - *snapshot.create.**

- `conf.event_definitions[3].event_type[9]`
 - Type: string
 - Description:
 - *snapshot.delete.**
- `conf.event_definitions[3].traits.availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*
- `conf.event_definitions[3].traits.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[3].traits.display_name.fields`
 - Type: string
 - Description:
 - *payload.display_name*
- `conf.event_definitions[3].traits.project_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*
- `conf.event_definitions[3].traits.replication_status.fields`
 - Type: string
 - Description:
 - *payload.replication_status*
- `conf.event_definitions[3].traits.status.fields`
 - Type: string
 - Description:
 - *payload.status*
- `conf.event_definitions[3].traits.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[40].event_type`
 - Type: string

- Description:
 - *trove.**
- `conf.event_definitions[40].traits.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[40].traits.created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[40].traits.instance_name.fields`
 - Type: string
 - Description:
 - *payload.instance_name*
- `conf.event_definitions[40].traits.instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[40].traits.instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[40].traits.launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[40].traits.launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[40].traits.nova_instance_id.fields`
 - Type: string
 - Description:
 - *payload.nova_instance_id*

- `conf.event_definitions[40].traits.region.fields`
 - Type: string
 - Description:
 - *payload.region*
- `conf.event_definitions[40].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[40].traits.service_id.fields`
 - Type: string
 - Description:
 - *payload.service_id*
- `conf.event_definitions[40].traits.state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[40].traits.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[41].event_type[0]`
 - Type: string
 - Description:
 - *trove.instance.create*
- `conf.event_definitions[41].event_type[1]`
 - Type: string
 - Description:
 - *trove.instance.modify_volume*
- `conf.event_definitions[41].event_type[2]`
 - Type: string
 - Description:
 - *trove.instance.modify_flavor*
- `conf.event_definitions[41].event_type[3]`
 - Type: string

- Description:
 - *trove.instance.delete*
- `conf.event_definitions[41].traits.availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*
- `conf.event_definitions[41].traits.instance_size.fields`
 - Type: string
 - Description:
 - *payload.instance_size*
- `conf.event_definitions[41].traits.instance_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[41].traits.name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[41].traits.nova_volume_id.fields`
 - Type: string
 - Description:
 - *payload.nova_volume_id*
- `conf.event_definitions[41].traits.volume_size.fields`
 - Type: string
 - Description:
 - *payload.volume_size*
- `conf.event_definitions[41].traits.volume_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[42].event_type`
 - Type: string
 - Description:
 - *trove.instance.create*

- `conf.event_definitions[42].traits.«[0].created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[42].traits.«[0].created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[42].traits.«[0].instance_name.fields`
 - Type: string
 - Description:
 - *payload.instance_name*
- `conf.event_definitions[42].traits.«[0].instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[42].traits.«[0].instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[42].traits.«[0].launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[42].traits.«[0].launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[42].traits.«[0].nova_instance_id.fields`
 - Type: string
 - Description:
 - *payload.nova_instance_id*
- `conf.event_definitions[42].traits.«[0].region.fields`
 - Type: string

- Description:
 - *payload.region*
- `conf.event_definitions[42].traits.«[0].resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[42].traits.«[0].service_id.fields`
 - Type: string
 - Description:
 - *payload.service_id*
- `conf.event_definitions[42].traits.«[0].state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[42].traits.«[0].user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[42].traits.«[1].availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*
- `conf.event_definitions[42].traits.«[1].instance_size.fields`
 - Type: string
 - Description:
 - *payload.instance_size*
- `conf.event_definitions[42].traits.«[1].instance_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[42].traits.«[1].name.fields`
 - Type: string
 - Description:
 - *payload.name*

- `conf.event_definitions[42].traits.«[1].nova_volume_id.fields`
 - Type: string
 - Description:
 - *payload.nova_volume_id*
- `conf.event_definitions[42].traits.«[1].volume_size.fields`
 - Type: string
 - Description:
 - *payload.volume_size*
- `conf.event_definitions[42].traits.«[1].volume_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[43].event_type`
 - Type: string
 - Description:
 - *trove.instance.modify_volume*
- `conf.event_definitions[43].traits.«[0].created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[43].traits.«[0].created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[43].traits.«[0].instance_name.fields`
 - Type: string
 - Description:
 - *payload.instance_name*
- `conf.event_definitions[43].traits.«[0].instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[43].traits.«[0].instance_type_id.fields`
 - Type: string

- Description:
 - *payload.instance_type_id*
- `conf.event_definitions[43].traits.«[0].launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[43].traits.«[0].launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[43].traits.«[0].nova_instance_id.fields`
 - Type: string
 - Description:
 - *payload.nova_instance_id*
- `conf.event_definitions[43].traits.«[0].region.fields`
 - Type: string
 - Description:
 - *payload.region*
- `conf.event_definitions[43].traits.«[0].resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[43].traits.«[0].service_id.fields`
 - Type: string
 - Description:
 - *payload.service_id*
- `conf.event_definitions[43].traits.«[0].state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[43].traits.«[0].user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*

- `conf.event_definitions[43].traits.«[1].availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*
- `conf.event_definitions[43].traits.«[1].instance_size.fields`
 - Type: string
 - Description:
 - *payload.instance_size*
- `conf.event_definitions[43].traits.«[1].instance_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[43].traits.«[1].name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[43].traits.«[1].nova_volume_id.fields`
 - Type: string
 - Description:
 - *payload.nova_volume_id*
- `conf.event_definitions[43].traits.«[1].volume_size.fields`
 - Type: string
 - Description:
 - *payload.volume_size*
- `conf.event_definitions[43].traits.«[1].volume_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[43].traits.modify_at.fields`
 - Type: string
 - Description:
 - *payload.modify_at*
- `conf.event_definitions[43].traits.modify_at.type`
 - Type: string

- Description:
- *datetime*
- `conf.event_definitions[43].traits.old_volume_size.fields`
 - Type: string
 - Description:
 - *payload.old_volume_size*
- `conf.event_definitions[43].traits.old_volume_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[44].event_type`
 - Type: string
 - Description:
 - *trove.instance.modify_flavor*
- `conf.event_definitions[44].traits.«[0].created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[44].traits.«[0].created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[44].traits.«[0].instance_name.fields`
 - Type: string
 - Description:
 - *payload.instance_name*
- `conf.event_definitions[44].traits.«[0].instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[44].traits.«[0].instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*

- `conf.event_definitions[44].traits.«[0].launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[44].traits.«[0].launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[44].traits.«[0].nova_instance_id.fields`
 - Type: string
 - Description:
 - *payload.nova_instance_id*
- `conf.event_definitions[44].traits.«[0].region.fields`
 - Type: string
 - Description:
 - *payload.region*
- `conf.event_definitions[44].traits.«[0].resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[44].traits.«[0].service_id.fields`
 - Type: string
 - Description:
 - *payload.service_id*
- `conf.event_definitions[44].traits.«[0].state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[44].traits.«[0].user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[44].traits.«[1].availability_zone.fields`
 - Type: string

- Description:
 - *payload.availability_zone*
- `conf.event_definitions[44].traits.«[1].instance_size.fields`
 - Type: string
 - Description:
 - *payload.instance_size*
- `conf.event_definitions[44].traits.«[1].instance_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[44].traits.«[1].name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[44].traits.«[1].nova_volume_id.fields`
 - Type: string
 - Description:
 - *payload.nova_volume_id*
- `conf.event_definitions[44].traits.«[1].volume_size.fields`
 - Type: string
 - Description:
 - *payload.volume_size*
- `conf.event_definitions[44].traits.«[1].volume_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[44].traits.modify_at.fields`
 - Type: string
 - Description:
 - *payload.modify_at*
- `conf.event_definitions[44].traits.modify_at.type`
 - Type: string
 - Description:
 - *datetime*

- `conf.event_definitions[44].traits.old_instance_size.fields`
 - Type: string
 - Description:
 - *payload.old_instance_size*
- `conf.event_definitions[44].traits.old_instance_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[45].event_type`
 - Type: string
 - Description:
 - *trove.instance.delete*
- `conf.event_definitions[45].traits.«[0].created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[45].traits.«[0].created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[45].traits.«[0].instance_name.fields`
 - Type: string
 - Description:
 - *payload.instance_name*
- `conf.event_definitions[45].traits.«[0].instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[45].traits.«[0].instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[45].traits.«[0].launched_at.fields`
 - Type: string

- Description:
- *payload.launched_at*
- `conf.event_definitions[45].traits.«[0].launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[45].traits.«[0].nova_instance_id.fields`
 - Type: string
 - Description:
 - *payload.nova_instance_id*
- `conf.event_definitions[45].traits.«[0].region.fields`
 - Type: string
 - Description:
 - *payload.region*
- `conf.event_definitions[45].traits.«[0].resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[45].traits.«[0].service_id.fields`
 - Type: string
 - Description:
 - *payload.service_id*
- `conf.event_definitions[45].traits.«[0].state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[45].traits.«[0].user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[45].traits.«[1].availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*

- `conf.event_definitions[45].traits.«[1].instance_size.fields`
 - Type: string
 - Description:
 - *payload.instance_size*
- `conf.event_definitions[45].traits.«[1].instance_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[45].traits.«[1].name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[45].traits.«[1].nova_volume_id.fields`
 - Type: string
 - Description:
 - *payload.nova_volume_id*
- `conf.event_definitions[45].traits.«[1].volume_size.fields`
 - Type: string
 - Description:
 - *payload.volume_size*
- `conf.event_definitions[45].traits.«[1].volume_size.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[45].traits.deleted_at.fields`
 - Type: string
 - Description:
 - *payload.deleted_at*
- `conf.event_definitions[45].traits.deleted_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[46].event_type`
 - Type: string

- Description:
 - *trove.instance.exists*
- `conf.event_definitions[46].traits.«.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[46].traits.«.created_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[46].traits.«.instance_name.fields`
 - Type: string
 - Description:
 - *payload.instance_name*
- `conf.event_definitions[46].traits.«.instance_type.fields`
 - Type: string
 - Description:
 - *payload.instance_type*
- `conf.event_definitions[46].traits.«.instance_type_id.fields`
 - Type: string
 - Description:
 - *payload.instance_type_id*
- `conf.event_definitions[46].traits.«.launched_at.fields`
 - Type: string
 - Description:
 - *payload.launched_at*
- `conf.event_definitions[46].traits.«.launched_at.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[46].traits.«.nova_instance_id.fields`
 - Type: string
 - Description:
 - *payload.nova_instance_id*

- `conf.event_definitions[46].traits.«.region.fields`
 - Type: string
 - Description:
 - *payload.region*
- `conf.event_definitions[46].traits.«.resource_id.fields`
 - Type: string
 - Description:
 - *payload.instance_id*
- `conf.event_definitions[46].traits.«.service_id.fields`
 - Type: string
 - Description:
 - *payload.service_id*
- `conf.event_definitions[46].traits.«.state.fields`
 - Type: string
 - Description:
 - *payload.state*
- `conf.event_definitions[46].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[46].traits.audit_period_beginning.fields`
 - Type: string
 - Description:
 - *payload.audit_period_beginning*
- `conf.event_definitions[46].traits.audit_period_beginning.type`
 - Type: string
 - Description:
 - *datetime*
- `conf.event_definitions[46].traits.audit_period_ending.fields`
 - Type: string
 - Description:
 - *payload.audit_period_ending*
- `conf.event_definitions[46].traits.audit_period_ending.type`
 - Type: string

- Description:
 - *datetime*
- `conf.event_definitions[46].traits.display_name.fields`
 - Type: string
 - Description:
 - *payload.display_name*
- `conf.event_definitions[47].event_type`
 - Type: string
 - Description:
 - *profiler.**
- `conf.event_definitions[47].traits.db.params.fields`
 - Type: string
 - Description:
 - *payload.info.db.params*
- `conf.event_definitions[47].traits.db.statement.fields`
 - Type: string
 - Description:
 - *payload.info.db.statement*
- `conf.event_definitions[47].traits.base_id.fields`
 - Type: string
 - Description:
 - *payload.base_id*
- `conf.event_definitions[47].traits.host.fields`
 - Type: string
 - Description:
 - *payload.info.host*
- `conf.event_definitions[47].traits.method.fields`
 - Type: string
 - Description:
 - *payload.info.request.method*
- `conf.event_definitions[47].traits.name.fields`
 - Type: string
 - Description:
 - *payload.name*

- `conf.event_definitions[47].traits.parent_id.fields`
 - Type: string
 - Description:
 - *payload.parent_id*
- `conf.event_definitions[47].traits.path.fields`
 - Type: string
 - Description:
 - *payload.info.request.path*
- `conf.event_definitions[47].traits.project.fields`
 - Type: string
 - Description:
 - *payload.project*
- `conf.event_definitions[47].traits.query.fields`
 - Type: string
 - Description:
 - *payload.info.request.query*
- `conf.event_definitions[47].traits.scheme.fields`
 - Type: string
 - Description:
 - *payload.info.request.scheme*
- `conf.event_definitions[47].traits.service.fields`
 - Type: string
 - Description:
 - *payload.service*
- `conf.event_definitions[47].traits.timestamp.fields`
 - Type: string
 - Description:
 - *payload.timestamp*
- `conf.event_definitions[47].traits.trace_id.fields`
 - Type: string
 - Description:
 - *payload.trace_id*
- `conf.event_definitions[48].event_type`
 - Type: string

- Description:
 - *magnum.bay.**
- `conf.event_definitions[48].traits.action.fields`
 - Type: string
 - Description:
 - *payload.action*
- `conf.event_definitions[48].traits.eventTime.fields`
 - Type: string
 - Description:
 - *payload.eventTime*
- `conf.event_definitions[48].traits.eventType.fields`
 - Type: string
 - Description:
 - *payload.eventType*
- `conf.event_definitions[48].traits.id.fields`
 - Type: string
 - Description:
 - *payload.id*
- `conf.event_definitions[48].traits.initiator_host_address.fields`
 - Type: string
 - Description:
 - *payload.initiator.host.address*
- `conf.event_definitions[48].traits.initiator_host_agent.fields`
 - Type: string
 - Description:
 - *payload.initiator.host.agent*
- `conf.event_definitions[48].traits.initiator_id.fields`
 - Type: string
 - Description:
 - *payload.initiator.id*
- `conf.event_definitions[48].traits.initiator_name.fields`
 - Type: string
 - Description:
 - *payload.initiator.name*

- `conf.event_definitions[48].traits.initiator_typeURI.fields`
 - Type: string
 - Description:
 - *payload.initiator.typeURI*
- `conf.event_definitions[48].traits.observer_id.fields`
 - Type: string
 - Description:
 - *payload.observer.id*
- `conf.event_definitions[48].traits.observer_typeURI.fields`
 - Type: string
 - Description:
 - *payload.observer.typeURI*
- `conf.event_definitions[48].traits.outcome.fields`
 - Type: string
 - Description:
 - *payload.outcome*
- `conf.event_definitions[48].traits.target_id.fields`
 - Type: string
 - Description:
 - *payload.target.id*
- `conf.event_definitions[48].traits.target_typeURI.fields`
 - Type: string
 - Description:
 - *payload.target.typeURI*
- `conf.event_definitions[48].traits.typeURI.fields`
 - Type: string
 - Description:
 - *payload.typeURI*
- `conf.event_definitions[4].event_type[0]`
 - Type: string
 - Description:
 - *volume.exists*
- `conf.event_definitions[4].event_type[1]`
 - Type: string

- Description:
 - *volume.create.**
- `conf.event_definitions[4].event_type[2]`
 - Type: string
 - Description:
 - *volume.delete.**
- `conf.event_definitions[4].event_type[3]`
 - Type: string
 - Description:
 - *volume.resize.**
- `conf.event_definitions[4].event_type[4]`
 - Type: string
 - Description:
 - *volume.attach.**
- `conf.event_definitions[4].event_type[5]`
 - Type: string
 - Description:
 - *volume.detach.**
- `conf.event_definitions[4].event_type[6]`
 - Type: string
 - Description:
 - *volume.update.**
- `conf.event_definitions[4].traits.«.availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*
- `conf.event_definitions[4].traits.«.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[4].traits.«.display_name.fields`
 - Type: string
 - Description:
 - *payload.display_name*

- `conf.event_definitions[4].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*
- `conf.event_definitions[4].traits.«.replication_status.fields`
 - Type: string
 - Description:
 - *payload.replication_status*
- `conf.event_definitions[4].traits.«.status.fields`
 - Type: string
 - Description:
 - *payload.status*
- `conf.event_definitions[4].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[4].traits.host.fields`
 - Type: string
 - Description:
 - *payload.host*
- `conf.event_definitions[4].traits.replication_status.fields`
 - Type: string
 - Description:
 - *payload.replication_status*
- `conf.event_definitions[4].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.volume_id*
- `conf.event_definitions[4].traits.size.fields`
 - Type: string
 - Description:
 - *payload.size*
- `conf.event_definitions[4].traits.type.fields`
 - Type: string

- Description:
 - *payload.volume_type*
- `conf.event_definitions[5].event_type[0]`
 - Type: string
 - Description:
 - *snapshot.exists*
- `conf.event_definitions[5].event_type[1]`
 - Type: string
 - Description:
 - *snapshot.create.**
- `conf.event_definitions[5].event_type[2]`
 - Type: string
 - Description:
 - *snapshot.delete.**
- `conf.event_definitions[5].event_type[3]`
 - Type: string
 - Description:
 - *snapshot.update.**
- `conf.event_definitions[5].traits.«.availability_zone.fields`
 - Type: string
 - Description:
 - *payload.availability_zone*
- `conf.event_definitions[5].traits.«.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[5].traits.«.display_name.fields`
 - Type: string
 - Description:
 - *payload.display_name*
- `conf.event_definitions[5].traits.«.project_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*

- `conf.event_definitions[5].traits.«.replication_status.fields`
 - Type: string
 - Description:
 - *payload.replication_status*
- `conf.event_definitions[5].traits.«.status.fields`
 - Type: string
 - Description:
 - *payload.status*
- `conf.event_definitions[5].traits.«.user_id.fields`
 - Type: string
 - Description:
 - *payload.user_id*
- `conf.event_definitions[5].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.snapshot_id*
- `conf.event_definitions[5].traits.volume_id.fields`
 - Type: string
 - Description:
 - *payload.volume_id*
- `conf.event_definitions[6].event_type[0]`
 - Type: string
 - Description:
 - *image_volume_cache.**
- `conf.event_definitions[6].traits.host.fields`
 - Type: string
 - Description:
 - *payload.host*
- `conf.event_definitions[6].traits.image_id.fields`
 - Type: string
 - Description:
 - *payload.image_id*
- `conf.event_definitions[7].event_type[0]`
 - Type: string

- Description:
 - *image.create*
- `conf.event_definitions[7].event_type[1]`
 - Type: string
 - Description:
 - *image.update*
- `conf.event_definitions[7].event_type[2]`
 - Type: string
 - Description:
 - *image.upload*
- `conf.event_definitions[7].event_type[3]`
 - Type: string
 - Description:
 - *image.delete*
- `conf.event_definitions[7].traits.created_at.fields`
 - Type: string
 - Description:
 - *payload.created_at*
- `conf.event_definitions[7].traits.deleted_at.fields`
 - Type: string
 - Description:
 - *payload.deleted_at*
- `conf.event_definitions[7].traits.name.fields`
 - Type: string
 - Description:
 - *payload.name*
- `conf.event_definitions[7].traits.project_id.fields`
 - Type: string
 - Description:
 - *payload.owner*
- `conf.event_definitions[7].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.id*

- `conf.event_definitions[7].traits.size.fields`
 - Type: string
 - Description:
 - *payload.size*
- `conf.event_definitions[7].traits.status.fields`
 - Type: string
 - Description:
 - *payload.status*
- `conf.event_definitions[7].traits.user_id.fields`
 - Type: string
 - Description:
 - *payload.owner*
- `conf.event_definitions[8].event_type`
 - Type: string
 - Description:
 - *image.send*
- `conf.event_definitions[8].traits.bytes_sent.fields`
 - Type: string
 - Description:
 - *payload.bytes_sent*
- `conf.event_definitions[8].traits.bytes_sent.type`
 - Type: string
 - Description:
 - *int*
- `conf.event_definitions[8].traits.destination_ip.fields`
 - Type: string
 - Description:
 - *payload.destination_ip*
- `conf.event_definitions[8].traits.image_id.fields`
 - Type: string
 - Description:
 - *payload.image_id*
- `conf.event_definitions[8].traits.receiver_project.fields`
 - Type: string

- Description:
 - *payload.receiver_tenant_id*
- `conf.event_definitions[8].traits.receiver_user.fields`
 - Type: string
 - Description:
 - *payload.receiver_user_id*
- `conf.event_definitions[8].traits.user_id.fields`
 - Type: string
 - Description:
 - *payload.owner_id*
- `conf.event_definitions[9].event_type`
 - Type: string
 - Description:
 - *orchestration.stack.**
- `conf.event_definitions[9].traits.project_id.fields`
 - Type: string
 - Description:
 - *payload.tenant_id*
- `conf.event_definitions[9].traits.resource_id.fields`
 - Type: string
 - Description:
 - *payload.stack_identity*
- `conf.event_definitions[9].traits.user_id.fields[0]`
 - Type: string
 - Description:
 - *_context_trustor_user_id*
- `conf.event_definitions[9].traits.user_id.fields[1]`
 - Type: string
 - Description:
 - *_context_user_id*
- `conf.event_pipeline.sinks[0].name`
 - Type: string
 - Description:
 - *event_sink*

- `conf.event_pipeline.sinks[0].publishers[0]`
 - Type: string
 - Description:
 - *notifier://*
- `conf.event_pipeline.sinks[0].transformers`
 - Type: string
 - Description:
 - *nil*
- `conf.event_pipeline.sources[0].events[0]`
 - Type: string
 - Description:
 - *
- `conf.event_pipeline.sources[0].name`
 - Type: string
 - Description:
 - *event_source*
- `conf.event_pipeline.sources[0].sinks[0]`
 - Type: string
 - Description:
 - *event_sink*
- `conf.gnocchi_resources.resources[0].archive_policy`
 - Type: string
 - Description:
 - *low*
- `conf.gnocchi_resources.resources[0].metrics[0]`
 - Type: string
 - Description:
 - *identity.authenticate.success*
- `conf.gnocchi_resources.resources[0].metrics[10]`
 - Type: string
 - Description:
 - *identity.role.deleted*
- `conf.gnocchi_resources.resources[0].metrics[11]`
 - Type: string

- Description:
 - *identity.role.updated*
- `conf.gnocchi_resources.resources[0].metrics[12]`
 - Type: string
 - Description:
 - *identity.project.created*
- `conf.gnocchi_resources.resources[0].metrics[13]`
 - Type: string
 - Description:
 - *identity.project.deleted*
- `conf.gnocchi_resources.resources[0].metrics[14]`
 - Type: string
 - Description:
 - *identity.project.updated*
- `conf.gnocchi_resources.resources[0].metrics[15]`
 - Type: string
 - Description:
 - *identity.trust.created*
- `conf.gnocchi_resources.resources[0].metrics[16]`
 - Type: string
 - Description:
 - *identity.trust.deleted*
- `conf.gnocchi_resources.resources[0].metrics[17]`
 - Type: string
 - Description:
 - *identity.role_assignment.created*
- `conf.gnocchi_resources.resources[0].metrics[18]`
 - Type: string
 - Description:
 - *identity.role_assignment.deleted*
- `conf.gnocchi_resources.resources[0].metrics[1]`
 - Type: string
 - Description:
 - *identity.authenticate.pending*

- `conf.gnocchi_resources.resources[0].metrics[2]`
 - Type: string
 - Description:
 - *identity.authenticate.failure*
- `conf.gnocchi_resources.resources[0].metrics[3]`
 - Type: string
 - Description:
 - *identity.user.created*
- `conf.gnocchi_resources.resources[0].metrics[4]`
 - Type: string
 - Description:
 - *identity.user.deleted*
- `conf.gnocchi_resources.resources[0].metrics[5]`
 - Type: string
 - Description:
 - *identity.user.updated*
- `conf.gnocchi_resources.resources[0].metrics[6]`
 - Type: string
 - Description:
 - *identity.group.created*
- `conf.gnocchi_resources.resources[0].metrics[7]`
 - Type: string
 - Description:
 - *identity.group.deleted*
- `conf.gnocchi_resources.resources[0].metrics[8]`
 - Type: string
 - Description:
 - *identity.group.updated*
- `conf.gnocchi_resources.resources[0].metrics[9]`
 - Type: string
 - Description:
 - *identity.role.created*
- `conf.gnocchi_resources.resources[0].resource_type`
 - Type: string

- Description:
 - *identity*
- `conf.gnocchi_resources.resources[10].attributes.display_name`
 - Type: string
 - Description:
 - *resource_metadata.display_name*
- `conf.gnocchi_resources.resources[10].attributes.volume_type`
 - Type: string
 - Description:
 - *resource_metadata.volume_type*
- `conf.gnocchi_resources.resources[10].event_attributes.id`
 - Type: string
 - Description:
 - *resource_id*
- `conf.gnocchi_resources.resources[10].event_delete`
 - Type: string
 - Description:
 - *volume.delete.start*
- `conf.gnocchi_resources.resources[10].metrics[0]`
 - Type: string
 - Description:
 - *volume*
- `conf.gnocchi_resources.resources[10].metrics[1]`
 - Type: string
 - Description:
 - *volume.size*
- `conf.gnocchi_resources.resources[10].metrics[2]`
 - Type: string
 - Description:
 - *snapshot.size*
- `conf.gnocchi_resources.resources[10].metrics[3]`
 - Type: string
 - Description:
 - *volume.snapshot.size*

- `conf.gnocchi_resources.resources[10].metrics[4]`
 - Type: string
 - Description:
 - *volume.backup.size*
- `conf.gnocchi_resources.resources[10].resource_type`
 - Type: string
 - Description:
 - *volume*
- `conf.gnocchi_resources.resources[11].attributes.host_name`
 - Type: string
 - Description:
 - *resource_metadata.resource_url*
- `conf.gnocchi_resources.resources[11].metrics[0]`
 - Type: string
 - Description:
 - *hardware.cpu.load.1min*
- `conf.gnocchi_resources.resources[11].metrics[10]`
 - Type: string
 - Description:
 - *hardware.network.ip.outgoing.datagrams*
- `conf.gnocchi_resources.resources[11].metrics[11]`
 - Type: string
 - Description:
 - *hardware.network.ip.incoming.datagrams*
- `conf.gnocchi_resources.resources[11].metrics[12]`
 - Type: string
 - Description:
 - *hardware.system_stats.cpu.idle*
- `conf.gnocchi_resources.resources[11].metrics[13]`
 - Type: string
 - Description:
 - *hardware.system_stats.io.outgoing.blocks*
- `conf.gnocchi_resources.resources[11].metrics[14]`
 - Type: string

- Description:
 - *hardware.system_stats.io.incoming.blocks*
- `conf.gnocchi_resources.resources[11].metrics[1]`
 - Type: string
 - Description:
 - *hardware.cpu.load.5min*
- `conf.gnocchi_resources.resources[11].metrics[2]`
 - Type: string
 - Description:
 - *hardware.cpu.load.15min*
- `conf.gnocchi_resources.resources[11].metrics[3]`
 - Type: string
 - Description:
 - *hardware.cpu.util*
- `conf.gnocchi_resources.resources[11].metrics[4]`
 - Type: string
 - Description:
 - *hardware.memory.total*
- `conf.gnocchi_resources.resources[11].metrics[5]`
 - Type: string
 - Description:
 - *hardware.memory.used*
- `conf.gnocchi_resources.resources[11].metrics[6]`
 - Type: string
 - Description:
 - *hardware.memory.swap.total*
- `conf.gnocchi_resources.resources[11].metrics[7]`
 - Type: string
 - Description:
 - *hardware.memory.swap.avail*
- `conf.gnocchi_resources.resources[11].metrics[8]`
 - Type: string
 - Description:
 - *hardware.memory.buffer*

- `conf.gnocchi_resources.resources[11].metrics[9]`
 - Type: string
 - Description:
 - *hardware.memory.cached*
- `conf.gnocchi_resources.resources[11].resource_type`
 - Type: string
 - Description:
 - *host*
- `conf.gnocchi_resources.resources[12].attributes.device_name`
 - Type: string
 - Description:
 - *resource_metadata.device*
- `conf.gnocchi_resources.resources[12].attributes.host_name`
 - Type: string
 - Description:
 - *resource_metadata.resource_url*
- `conf.gnocchi_resources.resources[12].metrics[0]`
 - Type: string
 - Description:
 - *hardware.disk.size.total*
- `conf.gnocchi_resources.resources[12].metrics[1]`
 - Type: string
 - Description:
 - *hardware.disk.size.used*
- `conf.gnocchi_resources.resources[12].resource_type`
 - Type: string
 - Description:
 - *host_disk*
- `conf.gnocchi_resources.resources[13].attributes.device_name`
 - Type: string
 - Description:
 - *resource_metadata.name*
- `conf.gnocchi_resources.resources[13].attributes.host_name`
 - Type: string

- Description:
 - *resource_metadata.resource_url*
- `conf.gnocchi_resources.resources[13].metrics[0]`
 - Type: string
 - Description:
 - *hardware.network.incoming.bytes*
- `conf.gnocchi_resources.resources[13].metrics[1]`
 - Type: string
 - Description:
 - *hardware.network.outgoing.bytes*
- `conf.gnocchi_resources.resources[13].metrics[2]`
 - Type: string
 - Description:
 - *hardware.network.outgoing.errors*
- `conf.gnocchi_resources.resources[13].resource_type`
 - Type: string
 - Description:
 - *host_network_interface*
- `conf.gnocchi_resources.resources[1].metrics[0]`
 - Type: string
 - Description:
 - *radosgw.objects*
- `conf.gnocchi_resources.resources[1].metrics[1]`
 - Type: string
 - Description:
 - *radosgw.objects.size*
- `conf.gnocchi_resources.resources[1].metrics[2]`
 - Type: string
 - Description:
 - *radosgw.objects.containers*
- `conf.gnocchi_resources.resources[1].metrics[3]`
 - Type: string
 - Description:
 - *radosgw.api.request*

- `conf.gnocchi_resources.resources[1].metrics[4]`
 - Type: string
 - Description:
 - *radosgw.containers.objects*
- `conf.gnocchi_resources.resources[1].metrics[5]`
 - Type: string
 - Description:
 - *radosgw.containers.objects.size*
- `conf.gnocchi_resources.resources[1].resource_type`
 - Type: string
 - Description:
 - *ceph_account*
- `conf.gnocchi_resources.resources[2].attributes.display_name`
 - Type: string
 - Description:
 - *resource_metadata.display_name*
- `conf.gnocchi_resources.resources[2].attributes.flavor_id`
 - Type: string
 - Description:
 - *resource_metadata.(instance_flavor_id|(flavor.id))*
- `conf.gnocchi_resources.resources[2].attributes.host`
 - Type: string
 - Description:
 - *resource_metadata.(instance_host|host)*
- `conf.gnocchi_resources.resources[2].attributes.image_ref`
 - Type: string
 - Description:
 - *resource_metadata.image_ref*
- `conf.gnocchi_resources.resources[2].attributes.server_group`
 - Type: string
 - Description:
 - *resource_metadata.user_metadata.server_group*
- `conf.gnocchi_resources.resources[2].event_associated_resources.instance_disk`
 - Type: string

- Description:
 - {"=": {"instance_id": "%s"}}
- conf.gnocchi_resources.resources[2].event_associated_resources.instance_network_interface
 - Type: string
 - Description:
 - {"=": {"instance_id": "%s"}}
- conf.gnocchi_resources.resources[2].event_attributes.id
 - Type: string
 - Description:
 - *instance_id*
- conf.gnocchi_resources.resources[2].event_delete
 - Type: string
 - Description:
 - *compute.instance.delete.start*
- conf.gnocchi_resources.resources[2].metrics[0]
 - Type: string
 - Description:
 - *memory*
- conf.gnocchi_resources.resources[2].metrics[10]
 - Type: string
 - Description:
 - *disk.root.size*
- conf.gnocchi_resources.resources[2].metrics[11]
 - Type: string
 - Description:
 - *disk.ephemeral.size*
- conf.gnocchi_resources.resources[2].metrics[12]
 - Type: string
 - Description:
 - *disk.read.requests*
- conf.gnocchi_resources.resources[2].metrics[13]
 - Type: string
 - Description:
 - *disk.read.requests.rate*

- `conf.gnocchi_resources.resources[2].metrics[14]`
 - Type: string
 - Description:
 - *disk.write.requests*
- `conf.gnocchi_resources.resources[2].metrics[15]`
 - Type: string
 - Description:
 - *disk.write.requests.rate*
- `conf.gnocchi_resources.resources[2].metrics[16]`
 - Type: string
 - Description:
 - *disk.read.bytes*
- `conf.gnocchi_resources.resources[2].metrics[17]`
 - Type: string
 - Description:
 - *disk.read.bytes.rate*
- `conf.gnocchi_resources.resources[2].metrics[18]`
 - Type: string
 - Description:
 - *disk.write.bytes*
- `conf.gnocchi_resources.resources[2].metrics[19]`
 - Type: string
 - Description:
 - *disk.write.bytes.rate*
- `conf.gnocchi_resources.resources[2].metrics[1]`
 - Type: string
 - Description:
 - *memory.usage*
- `conf.gnocchi_resources.resources[2].metrics[20]`
 - Type: string
 - Description:
 - *disk.latency*
- `conf.gnocchi_resources.resources[2].metrics[21]`
 - Type: string

- Description:
 - *disk.iops*
- `conf.gnocchi_resources.resources[2].metrics[22]`
 - Type: string
 - Description:
 - *disk.capacity*
- `conf.gnocchi_resources.resources[2].metrics[23]`
 - Type: string
 - Description:
 - *disk.allocation*
- `conf.gnocchi_resources.resources[2].metrics[24]`
 - Type: string
 - Description:
 - *disk.usage*
- `conf.gnocchi_resources.resources[2].metrics[25]`
 - Type: string
 - Description:
 - *compute.instance.booting.time*
- `conf.gnocchi_resources.resources[2].metrics[26]`
 - Type: string
 - Description:
 - *perf.cpu.cycles*
- `conf.gnocchi_resources.resources[2].metrics[27]`
 - Type: string
 - Description:
 - *perf.instructions*
- `conf.gnocchi_resources.resources[2].metrics[28]`
 - Type: string
 - Description:
 - *perf.cache.references*
- `conf.gnocchi_resources.resources[2].metrics[29]`
 - Type: string
 - Description:
 - *perf.cache.misses*

- `conf.gnocchi_resources.resources[2].metrics[2]`
 - Type: string
 - Description:
 - *memory.resident*
- `conf.gnocchi_resources.resources[2].metrics[3]`
 - Type: string
 - Description:
 - *memory.bandwidth.total*
- `conf.gnocchi_resources.resources[2].metrics[4]`
 - Type: string
 - Description:
 - *memory.bandwidth.local*
- `conf.gnocchi_resources.resources[2].metrics[5]`
 - Type: string
 - Description:
 - *vcpus*
- `conf.gnocchi_resources.resources[2].metrics[6]`
 - Type: string
 - Description:
 - *cpu*
- `conf.gnocchi_resources.resources[2].metrics[7]`
 - Type: string
 - Description:
 - *cpu.delta*
- `conf.gnocchi_resources.resources[2].metrics[8]`
 - Type: string
 - Description:
 - *cpu_util*
- `conf.gnocchi_resources.resources[2].metrics[9]`
 - Type: string
 - Description:
 - *cpu_l3_cache*
- `conf.gnocchi_resources.resources[2].resource_type`
 - Type: string

- Description:
 - *instance*
- `conf.gnocchi_resources.resources[3].attributes.instance_id`
 - Type: string
 - Description:
 - *resource_metadata.instance_id*
- `conf.gnocchi_resources.resources[3].attributes.name`
 - Type: string
 - Description:
 - *resource_metadata.vnic_name*
- `conf.gnocchi_resources.resources[3].metrics[0]`
 - Type: string
 - Description:
 - *network.outgoing.packets.rate*
- `conf.gnocchi_resources.resources[3].metrics[10]`
 - Type: string
 - Description:
 - *network.incoming.bytes*
- `conf.gnocchi_resources.resources[3].metrics[1]`
 - Type: string
 - Description:
 - *network.incoming.packets.rate*
- `conf.gnocchi_resources.resources[3].metrics[2]`
 - Type: string
 - Description:
 - *network.outgoing.packets*
- `conf.gnocchi_resources.resources[3].metrics[3]`
 - Type: string
 - Description:
 - *network.outgoing.packets.drop*
- `conf.gnocchi_resources.resources[3].metrics[4]`
 - Type: string
 - Description:
 - *network.incoming.packets.drop*

- `conf.gnocchi_resources.resources[3].metrics[5]`
 - Type: string
 - Description:
 - *network.outgoing.packets.error*
- `conf.gnocchi_resources.resources[3].metrics[6]`
 - Type: string
 - Description:
 - *network.incoming.packets.error*
- `conf.gnocchi_resources.resources[3].metrics[7]`
 - Type: string
 - Description:
 - *network.outgoing.bytes.rate*
- `conf.gnocchi_resources.resources[3].metrics[8]`
 - Type: string
 - Description:
 - *network.incoming.bytes.rate*
- `conf.gnocchi_resources.resources[3].metrics[9]`
 - Type: string
 - Description:
 - *network.outgoing.bytes*
- `conf.gnocchi_resources.resources[3].resource_type`
 - Type: string
 - Description:
 - *instance_network_interface*
- `conf.gnocchi_resources.resources[4].attributes.instance_id`
 - Type: string
 - Description:
 - *resource_metadata.instance_id*
- `conf.gnocchi_resources.resources[4].attributes.name`
 - Type: string
 - Description:
 - *resource_metadata.disk_name*
- `conf.gnocchi_resources.resources[4].metrics[0]`
 - Type: string

- Description:
 - *disk.device.read.requests*
- `conf.gnocchi_resources.resources[4].metrics[10]`
 - Type: string
 - Description:
 - *disk.device.capacity*
- `conf.gnocchi_resources.resources[4].metrics[11]`
 - Type: string
 - Description:
 - *disk.device.allocation*
- `conf.gnocchi_resources.resources[4].metrics[12]`
 - Type: string
 - Description:
 - *disk.device.usage*
- `conf.gnocchi_resources.resources[4].metrics[1]`
 - Type: string
 - Description:
 - *disk.device.read.requests.rate*
- `conf.gnocchi_resources.resources[4].metrics[2]`
 - Type: string
 - Description:
 - *disk.device.write.requests*
- `conf.gnocchi_resources.resources[4].metrics[3]`
 - Type: string
 - Description:
 - *disk.device.write.requests.rate*
- `conf.gnocchi_resources.resources[4].metrics[4]`
 - Type: string
 - Description:
 - *disk.device.read.bytes*
- `conf.gnocchi_resources.resources[4].metrics[5]`
 - Type: string
 - Description:
 - *disk.device.read.bytes.rate*

- `conf.gnocchi_resources.resources[4].metrics[6]`
 - Type: string
 - Description:
 - *disk.device.write.bytes*
- `conf.gnocchi_resources.resources[4].metrics[7]`
 - Type: string
 - Description:
 - *disk.device.write.bytes.rate*
- `conf.gnocchi_resources.resources[4].metrics[8]`
 - Type: string
 - Description:
 - *disk.device.latency*
- `conf.gnocchi_resources.resources[4].metrics[9]`
 - Type: string
 - Description:
 - *disk.device.iops*
- `conf.gnocchi_resources.resources[4].resource_type`
 - Type: string
 - Description:
 - *instance_disk*
- `conf.gnocchi_resources.resources[5].attributes.container_format`
 - Type: string
 - Description:
 - *resource_metadata.container_format*
- `conf.gnocchi_resources.resources[5].attributes.disk_format`
 - Type: string
 - Description:
 - *resource_metadata.disk_format*
- `conf.gnocchi_resources.resources[5].attributes.name`
 - Type: string
 - Description:
 - *resource_metadata.name*
- `conf.gnocchi_resources.resources[5].event_attributes.id`
 - Type: string

- Description:
 - *resource_id*
- `conf.gnocchi_resources.resources[5].event_delete`
 - Type: string
 - Description:
 - *image.delete*
- `conf.gnocchi_resources.resources[5].metrics[0]`
 - Type: string
 - Description:
 - *image.size*
- `conf.gnocchi_resources.resources[5].metrics[1]`
 - Type: string
 - Description:
 - *image.download*
- `conf.gnocchi_resources.resources[5].metrics[2]`
 - Type: string
 - Description:
 - *image.serve*
- `conf.gnocchi_resources.resources[5].resource_type`
 - Type: string
 - Description:
 - *image*
- `conf.gnocchi_resources.resources[6].metrics[0]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.power*
- `conf.gnocchi_resources.resources[6].metrics[10]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.mem_util*
- `conf.gnocchi_resources.resources[6].metrics[11]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.io_util*

- `conf.gnocchi_resources.resources[6].metrics[1]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.temperature*
- `conf.gnocchi_resources.resources[6].metrics[2]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.inlet_temperature*
- `conf.gnocchi_resources.resources[6].metrics[3]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.outlet_temperature*
- `conf.gnocchi_resources.resources[6].metrics[4]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.fan*
- `conf.gnocchi_resources.resources[6].metrics[5]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.current*
- `conf.gnocchi_resources.resources[6].metrics[6]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.voltage*
- `conf.gnocchi_resources.resources[6].metrics[7]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.airflow*
- `conf.gnocchi_resources.resources[6].metrics[8]`
 - Type: string
 - Description:
 - *hardware.ipmi.node.cups*
- `conf.gnocchi_resources.resources[6].metrics[9]`
 - Type: string

- Description:
 - *hardware.ipmi.node.cpu_util*
- `conf.gnocchi_resources.resources[6].resource_type`
 - Type: string
 - Description:
 - *ipmi*
- `conf.gnocchi_resources.resources[7].event_attributes.id`
 - Type: string
 - Description:
 - *resource_id*
- `conf.gnocchi_resources.resources[7].event_delete`
 - Type: string
 - Description:
 - *floatingip.delete.end*
- `conf.gnocchi_resources.resources[7].metrics[0]`
 - Type: string
 - Description:
 - *bandwidth*
- `conf.gnocchi_resources.resources[7].metrics[10]`
 - Type: string
 - Description:
 - *router*
- `conf.gnocchi_resources.resources[7].metrics[11]`
 - Type: string
 - Description:
 - *router.create*
- `conf.gnocchi_resources.resources[7].metrics[12]`
 - Type: string
 - Description:
 - *router.update*
- `conf.gnocchi_resources.resources[7].metrics[13]`
 - Type: string
 - Description:
 - *ip.floating*

- `conf.gnocchi_resources.resources[7].metrics[14]`
 - Type: string
 - Description:
 - *ip.floating.create*
- `conf.gnocchi_resources.resources[7].metrics[15]`
 - Type: string
 - Description:
 - *ip.floating.update*
- `conf.gnocchi_resources.resources[7].metrics[1]`
 - Type: string
 - Description:
 - *network*
- `conf.gnocchi_resources.resources[7].metrics[2]`
 - Type: string
 - Description:
 - *network.create*
- `conf.gnocchi_resources.resources[7].metrics[3]`
 - Type: string
 - Description:
 - *network.update*
- `conf.gnocchi_resources.resources[7].metrics[4]`
 - Type: string
 - Description:
 - *subnet*
- `conf.gnocchi_resources.resources[7].metrics[5]`
 - Type: string
 - Description:
 - *subnet.create*
- `conf.gnocchi_resources.resources[7].metrics[6]`
 - Type: string
 - Description:
 - *subnet.update*
- `conf.gnocchi_resources.resources[7].metrics[7]`
 - Type: string

- Description:
 - *port*
- `conf.gnocchi_resources.resources[7].metrics[8]`
 - Type: string
 - Description:
 - *port.create*
- `conf.gnocchi_resources.resources[7].metrics[9]`
 - Type: string
 - Description:
 - *port.update*
- `conf.gnocchi_resources.resources[7].resource_type`
 - Type: string
 - Description:
 - *network*
- `conf.gnocchi_resources.resources[8].metrics[0]`
 - Type: string
 - Description:
 - *stack.create*
- `conf.gnocchi_resources.resources[8].metrics[1]`
 - Type: string
 - Description:
 - *stack.update*
- `conf.gnocchi_resources.resources[8].metrics[2]`
 - Type: string
 - Description:
 - *stack.delete*
- `conf.gnocchi_resources.resources[8].metrics[3]`
 - Type: string
 - Description:
 - *stack.resume*
- `conf.gnocchi_resources.resources[8].metrics[4]`
 - Type: string
 - Description:
 - *stack.suspend*

- `conf.gnocchi_resources.resources[8].resource_type`
 - Type: string
 - Description:
 - *stack*
- `conf.gnocchi_resources.resources[9].metrics[0]`
 - Type: string
 - Description:
 - *storage.objects.incoming.bytes*
- `conf.gnocchi_resources.resources[9].metrics[1]`
 - Type: string
 - Description:
 - *storage.objects.outgoing.bytes*
- `conf.gnocchi_resources.resources[9].metrics[2]`
 - Type: string
 - Description:
 - *storage.api.request*
- `conf.gnocchi_resources.resources[9].metrics[3]`
 - Type: string
 - Description:
 - *storage.objects.size*
- `conf.gnocchi_resources.resources[9].metrics[4]`
 - Type: string
 - Description:
 - *storage.objects*
- `conf.gnocchi_resources.resources[9].metrics[5]`
 - Type: string
 - Description:
 - *storage.objects.containers*
- `conf.gnocchi_resources.resources[9].metrics[6]`
 - Type: string
 - Description:
 - *storage.containers.objects*
- `conf.gnocchi_resources.resources[9].metrics[7]`
 - Type: string

- Description:
 - *storage.containers.objects.size*
- `conf.gnocchi_resources.resources[9].resource_type`
 - Type: string
 - Description:
 - *swift_account*
- `conf.meters.metric[0].event_type[0]`
 - Type: string
 - Description:
 - *image.upload*
- `conf.meters.metric[0].event_type[1]`
 - Type: string
 - Description:
 - *image.delete*
- `conf.meters.metric[0].event_type[2]`
 - Type: string
 - Description:
 - *image.update*
- `conf.meters.metric[0].name`
 - Type: string
 - Description:
 - *image.size*
- `conf.meters.metric[0].project_id`
 - Type: string
 - Description:
 - *\$.payload.owner*
- `conf.meters.metric[0].resource_id`
 - Type: string
 - Description:
 - *\$.payload.id*
- `conf.meters.metric[0].type`
 - Type: string
 - Description:
 - *gauge*

- `conf.meters.metric[0].unit`
 - Type: string
 - Description:
 - *B*
- `conf.meters.metric[0].volume`
 - Type: string
 - Description:
 - *\$.payload.size*
- `conf.meters.metric[10].event_type`
 - Type: string
 - Description:
 - *compute.instance.create.end*
- `conf.meters.metric[10].metadata.«.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[10].metadata.«.flavor_id`
 - Type: string
 - Description:
 - *\$.payload.instance_flavor_id*
- `conf.meters.metric[10].metadata.«.flavor_name`
 - Type: string
 - Description:
 - *\$.payload.instance_type*
- `conf.meters.metric[10].metadata.«.host`
 - Type: string
 - Description:
 - *\$.payload.host*
- `conf.meters.metric[10].metadata.«.image_ref`
 - Type: string
 - Description:
 - *\$.payload.image_meta.base_image_ref*
- `conf.meters.metric[10].name`
 - Type: string

- Description:
 - *compute.instance.booting.time*
- `conf.meters.metric[10].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[10].resource_id`
 - Type: string
 - Description:
 - *\$.payload.instance_id*
- `conf.meters.metric[10].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[10].unit`
 - Type: string
 - Description:
 - *sec*
- `conf.meters.metric[10].user_metadata`
 - Type: string
 - Description:
 - *\$.payload.metadata*
- `conf.meters.metric[10].volume.fields[0]`
 - Type: string
 - Description:
 - *\$.payload.created_at*
- `conf.meters.metric[10].volume.fields[1]`
 - Type: string
 - Description:
 - *\$.payload.launched_at*
- `conf.meters.metric[10].volume.plugin`
 - Type: string
 - Description:
 - *timedelta*

- `conf.meters.metric[11].event_type`
 - Type: string
 - Description:
 - *compute.instance.**
- `conf.meters.metric[11].metadata.«.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[11].metadata.«.flavor_id`
 - Type: string
 - Description:
 - *\$.payload.instance_flavor_id*
- `conf.meters.metric[11].metadata.«.flavor_name`
 - Type: string
 - Description:
 - *\$.payload.instance_type*
- `conf.meters.metric[11].metadata.«.host`
 - Type: string
 - Description:
 - *\$.payload.host*
- `conf.meters.metric[11].metadata.«.image_ref`
 - Type: string
 - Description:
 - *\$.payload.image_meta.base_image_ref*
- `conf.meters.metric[11].name`
 - Type: string
 - Description:
 - *disk.root.size*
- `conf.meters.metric[11].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[11].resource_id`
 - Type: string

- Description:
 - *\$.payload.instance_id*
- `conf.meters.metric[11].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[11].unit`
 - Type: string
 - Description:
 - *GB*
- `conf.meters.metric[11].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[11].user_metadata`
 - Type: string
 - Description:
 - *\$.payload.metadata*
- `conf.meters.metric[11].volume`
 - Type: string
 - Description:
 - *\$.payload.root_gb*
- `conf.meters.metric[12].event_type`
 - Type: string
 - Description:
 - *compute.instance.**
- `conf.meters.metric[12].metadata.«.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[12].metadata.«.flavor_id`
 - Type: string
 - Description:
 - *\$.payload.instance_flavor_id*

- `conf.meters.metric[12].metadata.«.flavor_name`
 - Type: string
 - Description:
 - *\$.payload.instance_type*
- `conf.meters.metric[12].metadata.«.host`
 - Type: string
 - Description:
 - *\$.payload.host*
- `conf.meters.metric[12].metadata.«.image_ref`
 - Type: string
 - Description:
 - *\$.payload.image_meta.base_image_ref*
- `conf.meters.metric[12].name`
 - Type: string
 - Description:
 - *disk.ephemeral.size*
- `conf.meters.metric[12].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[12].resource_id`
 - Type: string
 - Description:
 - *\$.payload.instance_id*
- `conf.meters.metric[12].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[12].unit`
 - Type: string
 - Description:
 - *GB*
- `conf.meters.metric[12].user_id`
 - Type: string

- Description:
 - *\$.payload.user_id*
- `conf.meters.metric[12].user_metadata`
 - Type: string
 - Description:
 - *\$.payload.metadata*
- `conf.meters.metric[12].volume`
 - Type: string
 - Description:
 - *\$.payload.ephemeral_gb*
- `conf.meters.metric[13].event_type`
 - Type: string
 - Description:
 - *l3.meter*
- `conf.meters.metric[13].name`
 - Type: string
 - Description:
 - *bandwidth*
- `conf.meters.metric[13].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[13].resource_id`
 - Type: string
 - Description:
 - *\$.payload.label_id*
- `conf.meters.metric[13].type`
 - Type: string
 - Description:
 - *delta*
- `conf.meters.metric[13].unit`
 - Type: string
 - Description:
 - *B*

- `conf.meters.metric[13].volume`
 - Type: string
 - Description:
 - *\$.payload.bytes*
- `conf.meters.metric[14].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[14].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[14].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[14].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.frequency)].source*
- `conf.meters.metric[14].name`
 - Type: string
 - Description:
 - *compute.node.cpu.frequency*
- `conf.meters.metric[14].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[14].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.frequency)].timestamp*
- `conf.meters.metric[14].type`
 - Type: string

- Description:
 - *gauge*
- `conf.meters.metric[14].unit`
 - Type: string
 - Description:
 - *MHz*
- `conf.meters.metric[14].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.frequency)].value*
- `conf.meters.metric[15].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[15].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[15].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[15].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.user.time)].source*
- `conf.meters.metric[15].name`
 - Type: string
 - Description:
 - *compute.node.cpu.user.time*
- `conf.meters.metric[15].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*

- `conf.meters.metric[15].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.user.time)].timestamp*
- `conf.meters.metric[15].type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.meters.metric[15].unit`
 - Type: string
 - Description:
 - *ns*
- `conf.meters.metric[15].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.user.time)].value*
- `conf.meters.metric[16].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[16].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[16].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[16].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.kernel.time)].source*
- `conf.meters.metric[16].name`
 - Type: string

- Description:
 - *compute.node.cpu.kernel.time*
- `conf.meters.metric[16].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[16].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.kernel.time)].timestamp*
- `conf.meters.metric[16].type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.meters.metric[16].unit`
 - Type: string
 - Description:
 - *ns*
- `conf.meters.metric[16].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.kernel.time)].value*
- `conf.meters.metric[17].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[17].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[17].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*

- `conf.meters.metric[17].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.idle.time)].source*
- `conf.meters.metric[17].name`
 - Type: string
 - Description:
 - *compute.node.cpu.idle.time*
- `conf.meters.metric[17].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[17].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.idle.time)].timestamp*
- `conf.meters.metric[17].type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.meters.metric[17].unit`
 - Type: string
 - Description:
 - *ns*
- `conf.meters.metric[17].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.idle.time)].value*
- `conf.meters.metric[18].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[18].metadata.event_type`
 - Type: string

- Description:
 - *\$.event_type*
- `conf.meters.metric[18].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[18].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.iowait.time)].source*
- `conf.meters.metric[18].name`
 - Type: string
 - Description:
 - *compute.node.cpu.iowait.time*
- `conf.meters.metric[18].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[18].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.iowait.time)].timestamp*
- `conf.meters.metric[18].type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.meters.metric[18].unit`
 - Type: string
 - Description:
 - *ns*
- `conf.meters.metric[18].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.iowait.time)].value*

- `conf.meters.metric[19].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[19].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[19].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[19].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.kernel.percent)].source*
- `conf.meters.metric[19].name`
 - Type: string
 - Description:
 - *compute.node.cpu.kernel.percent*
- `conf.meters.metric[19].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[19].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.kernel.percent)].timestamp*
- `conf.meters.metric[19].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[19].unit`
 - Type: string

- Description:
- *percent*
- `conf.meters.metric[19].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.kernel.percent)].value * 100*
- `conf.meters.metric[1].event_type`
 - Type: string
 - Description:
 - *image.send*
- `conf.meters.metric[1].name`
 - Type: string
 - Description:
 - *image.download*
- `conf.meters.metric[1].project_id`
 - Type: string
 - Description:
 - *\$.payload.receiver_tenant_id*
- `conf.meters.metric[1].resource_id`
 - Type: string
 - Description:
 - *\$.payload.image_id*
- `conf.meters.metric[1].type`
 - Type: string
 - Description:
 - *delta*
- `conf.meters.metric[1].unit`
 - Type: string
 - Description:
 - *B*
- `conf.meters.metric[1].user_id`
 - Type: string
 - Description:
 - *\$.payload.receiver_user_id*

- `conf.meters.metric[1].volume`
 - Type: string
 - Description:
 - *\$.payload.bytes_sent*
- `conf.meters.metric[20].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[20].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[20].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[20].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.idle.percent)].source*
- `conf.meters.metric[20].name`
 - Type: string
 - Description:
 - *compute.node.cpu.idle.percent*
- `conf.meters.metric[20].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[20].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.idle.percent)].timestamp*
- `conf.meters.metric[20].type`
 - Type: string

- Description:
 - *gauge*
- `conf.meters.metric[20].unit`
 - Type: string
 - Description:
 - *percent*
- `conf.meters.metric[20].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.idle.percent)].value * 100*
- `conf.meters.metric[21].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[21].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[21].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[21].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.user.percent)].source*
- `conf.meters.metric[21].name`
 - Type: string
 - Description:
 - *compute.node.cpu.user.percent*
- `conf.meters.metric[21].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*

- `conf.meters.metric[21].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.user.percent)].timestamp*
- `conf.meters.metric[21].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[21].unit`
 - Type: string
 - Description:
 - *percent*
- `conf.meters.metric[21].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.user.percent)].value * 100*
- `conf.meters.metric[22].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[22].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[22].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[22].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.iowait.percent)].source*
- `conf.meters.metric[22].name`
 - Type: string

- Description:
 - *compute.node.cpu.iowait.percent*
- `conf.meters.metric[22].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[22].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.iowait.percent)].timestamp*
- `conf.meters.metric[22].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[22].unit`
 - Type: string
 - Description:
 - *percent*
- `conf.meters.metric[22].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.iowait.percent)].value * 100*
- `conf.meters.metric[23].event_type`
 - Type: string
 - Description:
 - *compute.metrics.update*
- `conf.meters.metric[23].metadata.event_type`
 - Type: string
 - Description:
 - *\$.event_type*
- `conf.meters.metric[23].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*

- `conf.meters.metric[23].metadata.source`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.percent)].source*
- `conf.meters.metric[23].name`
 - Type: string
 - Description:
 - *compute.node.cpu.percent*
- `conf.meters.metric[23].resource_id`
 - Type: string
 - Description:
 - *\$.payload.host + "_" + \$.payload.nodename*
- `conf.meters.metric[23].timestamp`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.percent)].timestamp*
- `conf.meters.metric[23].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[23].unit`
 - Type: string
 - Description:
 - *percent*
- `conf.meters.metric[23].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[?(@.name=cpu.percent)].value * 100*
- `conf.meters.metric[24].event_type[0]`
 - Type: string
 - Description:
 - *identity.authenticate*
- `conf.meters.metric[24].name`
 - Type: string

- Description:
 - *\$.payload.outcome - \$.payload.outcome + identity.authenticate. + \$.payload.outcome*
- `conf.meters.metric[24].resource_id`
 - Type: string
 - Description:
 - *\$.payload.initiator.id*
- `conf.meters.metric[24].type`
 - Type: string
 - Description:
 - *delta*
- `conf.meters.metric[24].unit`
 - Type: string
 - Description:
 - *user*
- `conf.meters.metric[24].user_id`
 - Type: string
 - Description:
 - *\$.payload.initiator.id*
- `conf.meters.metric[24].volume`
 - Type: int
 - Description:
 - *1*
- `conf.meters.metric[25].event_type`
 - Type: string
 - Description:
 - *dns.domain.exists*
- `conf.meters.metric[25].metadata.host`
 - Type: string
 - Description:
 - *\$.publisher_id*
- `conf.meters.metric[25].metadata.pool_id`
 - Type: string
 - Description:
 - *\$.payload.pool_id*

- `conf.meters.metric[25].metadata.status`
 - Type: string
 - Description:
 - *\$.payload.status*
- `conf.meters.metric[25].name`
 - Type: string
 - Description:
 - *dns.domain.exists*
- `conf.meters.metric[25].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[25].resource_id`
 - Type: string
 - Description:
 - *\$.payload.id*
- `conf.meters.metric[25].type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.meters.metric[25].unit`
 - Type: string
 - Description:
 - *s*
- `conf.meters.metric[25].user_id`
 - Type: string
 - Description:
 - *\$.context.user*
- `conf.meters.metric[25].volume.fields[0]`
 - Type: string
 - Description:
 - *\$.payload.audit_period_beginning*
- `conf.meters.metric[25].volume.fields[1]`
 - Type: string

- Description:
 - *\$.payload.audit_period_ending*
- `conf.meters.metric[25].volume.plugin`
 - Type: string
 - Description:
 - *timedelta*
- `conf.meters.metric[26].event_type`
 - Type: string
 - Description:
 - *trove.instance.exists*
- `conf.meters.metric[26].metadata.instance_type`
 - Type: string
 - Description:
 - *\$.payload.instance_type*
- `conf.meters.metric[26].metadata.instance_type_id`
 - Type: string
 - Description:
 - *\$.payload.instance_type_id*
- `conf.meters.metric[26].metadata.nova_instance_id`
 - Type: string
 - Description:
 - *\$.payload.nova_instance_id*
- `conf.meters.metric[26].metadata.service_id`
 - Type: string
 - Description:
 - *\$.payload.service_id*
- `conf.meters.metric[26].metadata.state`
 - Type: string
 - Description:
 - *\$.payload.state*
- `conf.meters.metric[26].name`
 - Type: string
 - Description:
 - *trove.instance.exists*

- `conf.meters.metric[26].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[26].resource_id`
 - Type: string
 - Description:
 - *\$.payload.instance_id*
- `conf.meters.metric[26].type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.meters.metric[26].unit`
 - Type: string
 - Description:
 - *s*
- `conf.meters.metric[26].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[26].volume.fields[0]`
 - Type: string
 - Description:
 - *\$.payload.audit_period_beginning*
- `conf.meters.metric[26].volume.fields[1]`
 - Type: string
 - Description:
 - *\$.payload.audit_period_ending*
- `conf.meters.metric[26].volume.plugin`
 - Type: string
 - Description:
 - *timedelta*
- `conf.meters.metric[2].event_type`
 - Type: string

- Description:
- *image.send*
- `conf.meters.metric[2].name`
 - Type: string
 - Description:
 - *image.serve*
- `conf.meters.metric[2].project_id`
 - Type: string
 - Description:
 - *\$.payload.owner_id*
- `conf.meters.metric[2].resource_id`
 - Type: string
 - Description:
 - *\$.payload.image_id*
- `conf.meters.metric[2].type`
 - Type: string
 - Description:
 - *delta*
- `conf.meters.metric[2].unit`
 - Type: string
 - Description:
 - *B*
- `conf.meters.metric[2].volume`
 - Type: string
 - Description:
 - *\$.payload.bytes_sent*
- `conf.meters.metric[3].event_type[0]`
 - Type: string
 - Description:
 - *volume.exists*
- `conf.meters.metric[3].event_type[1]`
 - Type: string
 - Description:
 - *volume.create.**

- `conf.meters.metric[3].event_type[2]`
 - Type: string
 - Description:
 - *volume.delete.**
- `conf.meters.metric[3].event_type[3]`
 - Type: string
 - Description:
 - *volume.resize.**
- `conf.meters.metric[3].event_type[4]`
 - Type: string
 - Description:
 - *volume.attach.**
- `conf.meters.metric[3].event_type[5]`
 - Type: string
 - Description:
 - *volume.detach.**
- `conf.meters.metric[3].event_type[6]`
 - Type: string
 - Description:
 - *volume.update.**
- `conf.meters.metric[3].metadata.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[3].metadata.volume_type`
 - Type: string
 - Description:
 - *\$.payload.volume_type*
- `conf.meters.metric[3].name`
 - Type: string
 - Description:
 - *volume.size*
- `conf.meters.metric[3].project_id`
 - Type: string

- Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[3].resource_id`
 - Type: string
 - Description:
 - *\$.payload.volume_id*
- `conf.meters.metric[3].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[3].unit`
 - Type: string
 - Description:
 - *GB*
- `conf.meters.metric[3].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[3].volume`
 - Type: string
 - Description:
 - *\$.payload.size*
- `conf.meters.metric[4].event_type[0]`
 - Type: string
 - Description:
 - *snapshot.exists*
- `conf.meters.metric[4].event_type[1]`
 - Type: string
 - Description:
 - *snapshot.create.**
- `conf.meters.metric[4].event_type[2]`
 - Type: string
 - Description:
 - *snapshot.delete.**

- `conf.meters.metric[4].metadata.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[4].name`
 - Type: string
 - Description:
 - *snapshot.size*
- `conf.meters.metric[4].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[4].resource_id`
 - Type: string
 - Description:
 - *\$.payload.snapshot_id*
- `conf.meters.metric[4].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[4].unit`
 - Type: string
 - Description:
 - *GB*
- `conf.meters.metric[4].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[4].volume`
 - Type: string
 - Description:
 - *\$.payload.volume_size*
- `conf.meters.metric[5].event_type[0]`
 - Type: string

- Description:
 - *backup.exists*
- `conf.meters.metric[5].event_type[1]`
 - Type: string
 - Description:
 - *backup.create.**
- `conf.meters.metric[5].event_type[2]`
 - Type: string
 - Description:
 - *backup.delete.**
- `conf.meters.metric[5].event_type[3]`
 - Type: string
 - Description:
 - *backup.restore.**
- `conf.meters.metric[5].metadata.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[5].name`
 - Type: string
 - Description:
 - *backup.size*
- `conf.meters.metric[5].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[5].resource_id`
 - Type: string
 - Description:
 - *\$.payload.backup_id*
- `conf.meters.metric[5].type`
 - Type: string
 - Description:
 - *gauge*

- `conf.meters.metric[5].unit`
 - Type: string
 - Description:
 - *GB*
- `conf.meters.metric[5].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[5].volume`
 - Type: string
 - Description:
 - *\$.payload.size*
- `conf.meters.metric[6].event_type`
 - Type: string
 - Description:
 - *magnum.bay.metrics.**
- `conf.meters.metric[6].lookup[0]`
 - Type: string
 - Description:
 - *name*
- `conf.meters.metric[6].lookup[1]`
 - Type: string
 - Description:
 - *unit*
- `conf.meters.metric[6].lookup[2]`
 - Type: string
 - Description:
 - *volume*
- `conf.meters.metric[6].name`
 - Type: string
 - Description:
 - *\$.payload.metrics.[*].name*
- `conf.meters.metric[6].project_id`
 - Type: string

- Description:
 - *\$.payload.project_id*
- `conf.meters.metric[6].resource_id`
 - Type: string
 - Description:
 - *\$.payload.resource_id*
- `conf.meters.metric[6].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[6].unit`
 - Type: string
 - Description:
 - *\$.payload.metrics[*].unit*
- `conf.meters.metric[6].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[6].volume`
 - Type: string
 - Description:
 - *\$.payload.metrics[*].value*
- `conf.meters.metric[7].event_type`
 - Type: string
 - Description:
 - *objectstore.http.request*
- `conf.meters.metric[7].lookup[0]`
 - Type: string
 - Description:
 - *name*
- `conf.meters.metric[7].lookup[1]`
 - Type: string
 - Description:
 - *unit*

- `conf.meters.metric[7].lookup[2]`
 - Type: string
 - Description:
 - *volume*
- `conf.meters.metric[7].name`
 - Type: string
 - Description:
 - *\$.payload.measurements[*].metric[*].name*
- `conf.meters.metric[7].project_id`
 - Type: string
 - Description:
 - *\$.payload.initiator.project_id*
- `conf.meters.metric[7].resource_id`
 - Type: string
 - Description:
 - *\$.payload.target.id*
- `conf.meters.metric[7].type`
 - Type: string
 - Description:
 - *delta*
- `conf.meters.metric[7].unit`
 - Type: string
 - Description:
 - *\$.payload.measurements[*].metric[*].unit*
- `conf.meters.metric[7].user_id`
 - Type: string
 - Description:
 - *\$.payload.initiator.id*
- `conf.meters.metric[7].volume`
 - Type: string
 - Description:
 - *\$.payload.measurements[*].result*
- `conf.meters.metric[8].event_type`
 - Type: string

- Description:
- *compute.instance.**
- `conf.meters.metric[8].metadata.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[8].metadata.flavor_id`
 - Type: string
 - Description:
 - *\$.payload.instance_flavor_id*
- `conf.meters.metric[8].metadata.flavor_name`
 - Type: string
 - Description:
 - *\$.payload.instance_type*
- `conf.meters.metric[8].metadata.host`
 - Type: string
 - Description:
 - *\$.payload.host*
- `conf.meters.metric[8].metadata.image_ref`
 - Type: string
 - Description:
 - *\$.payload.image_meta.base_image_ref*
- `conf.meters.metric[8].name`
 - Type: string
 - Description:
 - *memory*
- `conf.meters.metric[8].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[8].resource_id`
 - Type: string
 - Description:
 - *\$.payload.instance_id*

- `conf.meters.metric[8].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[8].unit`
 - Type: string
 - Description:
 - *MB*
- `conf.meters.metric[8].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*
- `conf.meters.metric[8].user_metadata`
 - Type: string
 - Description:
 - *\$.payload.metadata*
- `conf.meters.metric[8].volume`
 - Type: string
 - Description:
 - *\$.payload.memory_mb*
- `conf.meters.metric[9].event_type`
 - Type: string
 - Description:
 - *compute.instance.**
- `conf.meters.metric[9].metadata.«.display_name`
 - Type: string
 - Description:
 - *\$.payload.display_name*
- `conf.meters.metric[9].metadata.«.flavor_id`
 - Type: string
 - Description:
 - *\$.payload.instance_flavor_id*
- `conf.meters.metric[9].metadata.«.flavor_name`
 - Type: string

- Description:
- *\$.payload.instance_type*
- `conf.meters.metric[9].metadata.«.host`
 - Type: string
 - Description:
 - *\$.payload.host*
- `conf.meters.metric[9].metadata.«.image_ref`
 - Type: string
 - Description:
 - *\$.payload.image_meta.base_image_ref*
- `conf.meters.metric[9].name`
 - Type: string
 - Description:
 - *vcpus*
- `conf.meters.metric[9].project_id`
 - Type: string
 - Description:
 - *\$.payload.tenant_id*
- `conf.meters.metric[9].resource_id`
 - Type: string
 - Description:
 - *\$.payload.instance_id*
- `conf.meters.metric[9].type`
 - Type: string
 - Description:
 - *gauge*
- `conf.meters.metric[9].unit`
 - Type: string
 - Description:
 - *vcpu*
- `conf.meters.metric[9].user_id`
 - Type: string
 - Description:
 - *\$.payload.user_id*

- `conf.meters.metric[9].user_metadata`
 - Type: string
 - Description:
 - *\$.payload.metadata*
- `conf.meters.metric[9].volume`
 - Type: string
 - Description:
 - *\$.payload.vcpus*
- `conf.paste.app:api-server.paste.app_factory`
 - Type: string
 - Description:
 - *ceilometer.api.app:app_factory*
- `conf.paste.filter:audit.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.audit:filter_factory*
- `conf.paste.filter:audit.audit_map_file`
 - Type: string
 - Description:
 - */etc/ceilometer/api_audit_map.conf*
- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:authtoken.oslo_config_project`
 - Type: string
 - Description:
 - *ceilometer*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string

- Description:
- *ceilometer*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.http_proxy_to_wsgi:HTTPProxyToWSGI.factory*
- `conf.paste.filter:http_proxy_to_wsgi.oslo_config_project`
 - Type: string
 - Description:
 - *ceilometer*
- `conf.paste.filter:request_id.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:RequestId.factory*
- `conf.paste.filter:request_id.oslo_config_project`
 - Type: string
 - Description:
 - *ceilometer*
- `conf.paste.pipeline:main.pipeline`
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id authtoken audit api-server*
- `conf.pipeline.sinks[0].name`
 - Type: string
 - Description:
 - *meter_sink*
- `conf.pipeline.sinks[0].publishers[0]`
 - Type: string
 - Description:
 - *notifier://*
- `conf.pipeline.sinks[0].transformers`
 - Type: string
 - Description:
 - *nil*

- `conf.pipeline.sinks[1].name`
 - Type: string
 - Description:
 - *cpu_sink*
- `conf.pipeline.sinks[1].publishers[0]`
 - Type: string
 - Description:
 - *notifier://*
- `conf.pipeline.sinks[1].transformers[0].name`
 - Type: string
 - Description:
 - *rate_of_change*
- `conf.pipeline.sinks[1].transformers[0].parameters.target.max`
 - Type: int
 - Description:
 - *100*
- `conf.pipeline.sinks[1].transformers[0].parameters.target.name`
 - Type: string
 - Description:
 - *cpu_util*
- `conf.pipeline.sinks[1].transformers[0].parameters.target.scale`
 - Type: string
 - Description:
 - *100.0 / (10**9 * (resource_metadata.cpu_number or 1))*
- `conf.pipeline.sinks[1].transformers[0].parameters.target.type`
 - Type: string
 - Description:
 - *gauge*
- `conf.pipeline.sinks[1].transformers[0].parameters.target.unit`
 - Type: string
 - Description:
 - *%*
- `conf.pipeline.sinks[2].name`
 - Type: string

- Description:
 - *cpu_delta_sink*
- `conf.pipeline.sinks[2].publishers[0]`
 - Type: string
 - Description:
 - *notifier://*
- `conf.pipeline.sinks[2].transformers[0].name`
 - Type: string
 - Description:
 - *delta*
- `conf.pipeline.sinks[2].transformers[0].parameters.growth_only`
 - Type: bool
 - Description:
 - *true*
- `conf.pipeline.sinks[2].transformers[0].parameters.target.name`
 - Type: string
 - Description:
 - *cpu.delta*
- `conf.pipeline.sinks[3].name`
 - Type: string
 - Description:
 - *disk_sink*
- `conf.pipeline.sinks[3].publishers[0]`
 - Type: string
 - Description:
 - *notifier://*
- `conf.pipeline.sinks[3].transformers[0].name`
 - Type: string
 - Description:
 - *rate_of_change*
- `conf.pipeline.sinks[3].transformers[0].parameters.source.map_from.name`
 - Type: string
 - Description:
 - *(disk\device|disk)\(read|write)\(bytes|requests)*

- `conf.pipeline.sinks[3].transformers[0].parameters.source.map_from.unit`
 - Type: string
 - Description:
 - *(B|request)*
- `conf.pipeline.sinks[3].transformers[0].parameters.target.map_to.name`
 - Type: string
 - Description:
 - *\.\/\2.\3.rate*
- `conf.pipeline.sinks[3].transformers[0].parameters.target.map_to.unit`
 - Type: string
 - Description:
 - *\I/s*
- `conf.pipeline.sinks[3].transformers[0].parameters.target.type`
 - Type: string
 - Description:
 - *gauge*
- `conf.pipeline.sinks[4].name`
 - Type: string
 - Description:
 - *network_sink*
- `conf.pipeline.sinks[4].publishers[0]`
 - Type: string
 - Description:
 - *notifier://*
- `conf.pipeline.sinks[4].transformers[0].name`
 - Type: string
 - Description:
 - *rate_of_change*
- `conf.pipeline.sinks[4].transformers[0].parameters.source.map_from.name`
 - Type: string
 - Description:
 - *network\.(incoming|outgoing)\.(bytes|packets)*
- `conf.pipeline.sinks[4].transformers[0].parameters.source.map_from.unit`
 - Type: string

- Description:
 - (*B|packet*)
- `conf.pipeline.sinks[4].transformers[0].parameters.target.map_to.name`
 - Type: string
 - Description:
 - *network.\1.\2.rate*
- `conf.pipeline.sinks[4].transformers[0].parameters.target.map_to.unit`
 - Type: string
 - Description:
 - *\1/s*
- `conf.pipeline.sinks[4].transformers[0].parameters.target.type`
 - Type: string
 - Description:
 - *gauge*
- `conf.pipeline.sources[0].meters[0]`
 - Type: string
 - Description:
 - ***
- `conf.pipeline.sources[0].name`
 - Type: string
 - Description:
 - *meter_source*
- `conf.pipeline.sources[0].sinks[0]`
 - Type: string
 - Description:
 - *meter_sink*
- `conf.pipeline.sources[1].meters[0]`
 - Type: string
 - Description:
 - *cpu*
- `conf.pipeline.sources[1].name`
 - Type: string
 - Description:
 - *cpu_source*

- `conf.pipeline.sources[1].sinks[0]`
 - Type: string
 - Description:
 - *cpu_sink*
- `conf.pipeline.sources[1].sinks[1]`
 - Type: string
 - Description:
 - *cpu_delta_sink*
- `conf.pipeline.sources[2].meters[0]`
 - Type: string
 - Description:
 - *disk.read.bytes*
- `conf.pipeline.sources[2].meters[1]`
 - Type: string
 - Description:
 - *disk.read.requests*
- `conf.pipeline.sources[2].meters[2]`
 - Type: string
 - Description:
 - *disk.write.bytes*
- `conf.pipeline.sources[2].meters[3]`
 - Type: string
 - Description:
 - *disk.write.requests*
- `conf.pipeline.sources[2].meters[4]`
 - Type: string
 - Description:
 - *disk.device.read.bytes*
- `conf.pipeline.sources[2].meters[5]`
 - Type: string
 - Description:
 - *disk.device.read.requests*
- `conf.pipeline.sources[2].meters[6]`
 - Type: string

- Description:
 - *disk.device.write.bytes*
- `conf.pipeline.sources[2].meters[7]`
 - Type: string
 - Description:
 - *disk.device.write.requests*
- `conf.pipeline.sources[2].name`
 - Type: string
 - Description:
 - *disk_source*
- `conf.pipeline.sources[2].sinks[0]`
 - Type: string
 - Description:
 - *disk_sink*
- `conf.pipeline.sources[3].meters[0]`
 - Type: string
 - Description:
 - *network.incoming.bytes*
- `conf.pipeline.sources[3].meters[1]`
 - Type: string
 - Description:
 - *network.incoming.packets*
- `conf.pipeline.sources[3].meters[2]`
 - Type: string
 - Description:
 - *network.outgoing.bytes*
- `conf.pipeline.sources[3].meters[3]`
 - Type: string
 - Description:
 - *network.outgoing.packets*
- `conf.pipeline.sources[3].name`
 - Type: string
 - Description:
 - *network_source*

- `conf.pipeline.sources[3].sinks[0]`
 - Type: string
 - Description:
 - *network_sink*
- `conf.policy`
 - Type: object
 - Description:
 - `{}`
- `conf.polling.sources[0].interval`
 - Type: int
 - Description:
 - *600*
- `conf.polling.sources[0].meters[0]`
 - Type: string
 - Description:
 - `*`
- `conf.polling.sources[0].name`
 - Type: string
 - Description:
 - *all_pollsters*
- `conf.rally_tests.CeilometerMeters.list_meters[0].args.limit`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tests.CeilometerMeters.list_meters[0].args.metadata_query.status`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.counter_name`
 - Type: string
 - Description:
 - *benchmark_meter*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.counter_type`
 - Type: string

- Description:
 - *gauge*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.counter_unit`
 - Type: string
 - Description:
 - *%*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.counter_volume`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[0].deleted`
 - Type: string
 - Description:
 - *false*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[0].name`
 - Type: string
 - Description:
 - *rally benchmark on*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[0].status`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[1].deleted`
 - Type: string
 - Description:
 - *true*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[1].name`
 - Type: string
 - Description:
 - *rally benchmark off*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[1].status`
 - Type: string
 - Description:
 - *terminated*

- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.resources_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.samples_per_resource`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerMeters.list_meters[0].context.ceilometer.timestamp_interval`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tests.CeilometerMeters.list_meters[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerMeters.list_meters[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerMeters.list_meters[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.CeilometerMeters.list_meters[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.counter_name`
 - Type: string
 - Description:
 - *cpu_util*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.counter_type`
 - Type: string

- Description:
 - *gauge*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.counter_unit`
 - Type: string
 - Description:
 - *instance*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.counter_volume`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.filter.=.counter_unit`
 - Type: string
 - Description:
 - *instance*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.limit`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.orderby`
 - Type: string
 - Description:
 - *nil*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].args.resource_id`
 - Type: string
 - Description:
 - *resource_id*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].runner.sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*

- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerQueries.create_and_query_samples[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].args.counter_type`
 - Type: string
 - Description:
 - *cumulative*
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].args.counter_unit`
 - Type: string
 - Description:
 -
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].args.counter_volume`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].args.resource_id`
 - Type: string
 - Description:
 - *resource-id*
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].args.user_id`
 - Type: string
 - Description:
 - *user-id*
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].runner.times`
 - Type: int

- Description:
- 1
- conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.CeilometerStats.create_meter_and_get_stats[0].sla.failure_rate.max
 - Type: int
 - Description:
 - 0
- conf.security
 - Type: string
 - Description:

```

- #
  # Disable access to the entire file system except for the
  ↪ directories that
  # are explicitly allowed later.
  #
  # This currently breaks the configurations that come with some web
  ↪ application
  # Debian packages.
  #
  #<Directory />
  #   AllowOverride None
  #   Require all denied
  #</Directory>

  # Changing the following options will not really affect the security
  ↪ of the
  # server, but might make attacks slightly more difficult in some
  ↪ cases.

  #
  # ServerTokens
  # This directive configures what you return as the Server HTTP
  ↪ response
  # Header. The default is 'Full' which sends information about the OS-
  ↪ Type
  # and compiled in modules.
  # Set to one of: Full | OS | Minimal | Minor | Major | Prod
  # where Full conveys the most information, and Prod the least.
  ServerTokens Prod

  #

```

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```
# Optionally add a line containing the server version and virtual_
↳host
# name to server-generated pages (internal error documents, FTP_
↳directory
# listings, mod_status and mod_info output etc., but not CGI_
↳generated
# documents or custom error documents).
# Set to "EMail" to also include a mailto: link to the ServerAdmin.
# Set to one of: On | Off | EMail
ServerSignature Off

#
# Allow TRACE method
#
# Set to "extended" to also reflect the request body (only for_
↳testing and
# diagnostic purposes).
#
# Set to one of: On | Off | extended
TraceEnable Off

#
# Forbid access to version control directories
#
# If you use version control systems in your document root, you_
↳should
# probably deny access to their directories. For example, for_
↳subversion:
#
#<DirectoryMatch "/\\.svn">
#   Require all denied
#</DirectoryMatch>

#
# Setting this header will prevent MSIE from interpreting files as_
↳something
# else than declared by the content type in the HTTP headers.
# Requires mod_headers to be enabled.
#
#Header set X-Content-Type-Options: "nosniff"

#
# Setting this header will prevent other sites from embedding pages_
↳from this
# site as frames. This defends against clickjacking attacks.
# Requires mod_headers to be enabled.
#
#Header set X-Frame-Options: "sameorigin"
```

- conf.software.apache2.a2dismod

- Type: string
- Description:
- *nil*
- conf.software.apache2.a2enmod
 - Type: string
 - Description:
 - *nil*
- conf.software.apache2.binary
 - Type: string
 - Description:
 - *apache2*
- conf.software.apache2.conf_dir
 - Type: string
 - Description:
 - */etc/apache2/conf-enabled*
- conf.software.apache2.mods_dir
 - Type: string
 - Description:
 - */etc/apache2/mods-available*
- conf.software.apache2.site_dir
 - Type: string
 - Description:
 - */etc/apache2/sites-enable*
- conf.software.apache2.start_parameters
 - Type: string
 - Description:
 - *-DFOREGROUND*
- conf.wsgi_celometer
 - Type: string
 - Description:

```

- Listen 0.0.0.0:{{ tuple \"metering\" \"internal\" \"api\" . |_
  ↪include \"helm-toolkit.endpoints.endpoint_port_lookup\" }}

LogFormat \"%h %l %u %t \\\"%r\\\"\" %>s %b \\\"%{Referer}i\\\" \\\"%
  ↪{User-Agent}i\\\"\" combined

```

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```

<VirtualHost *:{ tuple \ "metering\ " \ "internal\ " \ "api\ " . |
↳ include \ "helm-toolkit.endpoints.endpoint_port_lookup\ " }>
  LogLevel info
  WSGIDaemonProcess ceilometer-api processes=2 threads=1
↳ user=ceilometer group=ceilometer display-name=%{GROUP} python-
↳ path=/var/lib/kolla/venv/lib/python2.7/site-packages
  WSGIProcessGroup ceilometer-api

  WSGIScriptReloading On
  WSGIScriptAlias / /var/lib/kolla/venv/lib/python2.7/site-
↳ packages/ceilometer/api/app.wsgi

  WSGIApplicationGroup %{GLOBAL}

  <Directory \ "/var/lib/kolla/venv/lib/python2.7/site-packages/
↳ ceilometer/api\ ">
    <IfVersion >= 2.4>
      Require all granted
    </IfVersion>
    <IfVersion < 2.4>
      Order allow,deny
      Allow from all
    </IfVersion>
  </Directory>
  ErrorLog /dev/stdout
  CustomLog /dev/stdout combined
</VirtualHost>

```

- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string

- Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *ceilometer-db-sync*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *ceilometer-rabbit-init*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *ceilometer-ks-user*
- dependencies.static.api.jobs[4]
 - Type: string
 - Description:
 - *ceilometer-ks-endpoints*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *oslo_db*

- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.api.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[3].service
 - Type: string
 - Description:
 - *metric*
- dependencies.static.central.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.central.jobs[1]
 - Type: string
 - Description:
 - *ceilometer-db-sync*
- dependencies.static.central.jobs[2]
 - Type: string
 - Description:
 - *ceilometer-rabbit-init*
- dependencies.static.central.jobs[3]
 - Type: string
 - Description:
 - *ceilometer-ks-user*
- dependencies.static.central.jobs[4]
 - Type: string

- Description:
 - *ceilometer-ks-endpoints*
- dependencies.static.central.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.central.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.central.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.services[2].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.central.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.services[3].service
 - Type: string
 - Description:
 - *metric*

- dependencies.static.collector.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.collector.jobs[1]
 - Type: string
 - Description:
 - *ceilometer-db-sync*
- dependencies.static.collector.jobs[2]
 - Type: string
 - Description:
 - *ceilometer-rabbit-init*
- dependencies.static.collector.jobs[3]
 - Type: string
 - Description:
 - *ceilometer-ks-user*
- dependencies.static.collector.jobs[4]
 - Type: string
 - Description:
 - *ceilometer-ks-endpoints*
- dependencies.static.collector.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.collector.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.collector.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.collector.services[1].service
 - Type: string

- Description:
 - *oslo_db*
- dependencies.static.collector.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.collector.services[2].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.collector.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.collector.services[3].service
 - Type: string
 - Description:
 - *metric*
- dependencies.static.compute.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.compute.jobs[1]
 - Type: string
 - Description:
 - *ceilometer-db-sync*
- dependencies.static.compute.jobs[2]
 - Type: string
 - Description:
 - *ceilometer-rabbit-init*
- dependencies.static.compute.jobs[3]
 - Type: string
 - Description:
 - *ceilometer-ks-user*

- dependencies.static.compute.jobs[4]
 - Type: string
 - Description:
 - *ceilometer-ks-endpoints*
- dependencies.static.compute.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.compute.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.compute.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.compute.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.compute.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.compute.services[2].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.compute.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.compute.services[3].service
 - Type: string

- Description:
 - *metric*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init_mongodb.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init_mongodb.services[0].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-db-init*
- dependencies.static.db_sync.jobs[1]
 - Type: string
 - Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*

- dependencies.static.db_sync.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[1].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ipmi.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.ipmi.jobs[1]
 - Type: string
 - Description:
 - *ceilometer-db-sync*
- dependencies.static.ipmi.jobs[2]
 - Type: string
 - Description:
 - *ceilometer-rabbit-init*
- dependencies.static.ipmi.jobs[3]
 - Type: string
 - Description:
 - *ceilometer-ks-user*
- dependencies.static.ipmi.jobs[4]
 - Type: string

- Description:
 - *ceilometer-ks-endpoints*
- dependencies.static.ipmi.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ipmi.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ipmi.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ipmi.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.ipmi.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ipmi.services[2].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.ipmi.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ipmi.services[3].service
 - Type: string
 - Description:
 - *metric*

- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.notification.jobs[0]
 - Type: string
 - Description:
 - *ceilometer-db-init-mongodb*
- dependencies.static.notification.jobs[1]
 - Type: string

- Description:
 - *ceilometer-db-sync*
- dependencies.static.notification.jobs[2]
 - Type: string
 - Description:
 - *ceilometer-rabbit-init*
- dependencies.static.notification.jobs[3]
 - Type: string
 - Description:
 - *ceilometer-ks-user*
- dependencies.static.notification.jobs[4]
 - Type: string
 - Description:
 - *ceilometer-ks-endpoints*
- dependencies.static.notification.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.notification.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.notification.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.notification.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.notification.services[2].endpoint
 - Type: string
 - Description:
 - *internal*

- dependencies.static.notification.services[2].service
 - Type: string
 - Description:
 - *mongodb*
- dependencies.static.notification.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.notification.services[3].service
 - Type: string
 - Description:
 - *metric*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.tests.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[1].service
 - Type: string

- Description:
 - *metering*
- dependencies.static.tests.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[2].service
 - Type: string
 - Description:
 - *metric*
- endpoints.alarming.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.alarming.hosts.default
 - Type: string
 - Description:
 - *aodh-api*
- endpoints.alarming.hosts.public
 - Type: string
 - Description:
 - *aodh*
- endpoints.alarming.name
 - Type: string
 - Description:
 - *aodh*
- endpoints.alarming.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.alarming.port.api.default
 - Type: int
 - Description:
 - *8042*

- endpoints.alarming.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.alarming.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string

- Description:
 - *admin*
- endpoints.identity.auth.ceilometer.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.ceilometer.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.ceilometer.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.ceilometer.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.ceilometer.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.ceilometer.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.ceilometer.username
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.identity.auth.test.password
 - Type: string
 - Description:
 - *password*

- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.project_name
 - Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.username
 - Type: string
 - Description:
 - *ceilometer-test*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string

- Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*

- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.metering.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.metering.hosts.default
 - Type: string
 - Description:
 - *ceilometer-api*
- endpoints.metering.hosts.public
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.metering.name
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.metering.path.default
 - Type: string

- Description:
 - *nil*
- endpoints.metering.port.api.default
 - Type: int
 - Description:
 - *8777*
- endpoints.metering.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.metering.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.metric.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.metric.hosts.default
 - Type: string
 - Description:
 - *gnocchi-api*
- endpoints.metric.hosts.public
 - Type: string
 - Description:
 - *gnocchi*
- endpoints.metric.name
 - Type: string
 - Description:
 - *gnocchi*
- endpoints.metric.path.default
 - Type: string
 - Description:
 - *nil*

- endpoints.metric.port.api.default
 - Type: int
 - Description:
 - *8041*
- endpoints.metric.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.metric.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.mongodb.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.mongodb.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.mongodb.auth.ceilometer.password
 - Type: string
 - Description:
 - *password*
- endpoints.mongodb.auth.ceilometer.username
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.mongodb.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.mongodb.hosts.default
 - Type: string

- Description:
 - *mongodb*
- endpoints.mongodb.path
 - Type: string
 - Description:
 - */ceilometer*
- endpoints.mongodb.port.mongodb.default
 - Type: int
 - Description:
 - *27017*
- endpoints.mongodb.scheme
 - Type: string
 - Description:
 - *mongodb*
- endpoints.oci_image_registry.auth.ceilometer.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.ceilometer.username
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*

- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string

- Description:
 - *root*
- endpoints.oslo_db.auth.ceilometer.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.ceilometer.username
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */ceilometer*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*

- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.ceilometer.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.ceilometer.username
 - Type: string
 - Description:
 - *ceilometer*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */ceilometer*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string

- Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - 2
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.ceilometer_api
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-api:wallaby*
- images.tags.ceilometer_central
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-central:wallaby*

- images.tags.ceilometer_collector
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-collector:wallaby*
- images.tags.ceilometer_compute
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-compute:wallaby*
- images.tags.ceilometer_db_sync
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-api:wallaby*
- images.tags.ceilometer_ipmi
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-base:wallaby*
- images.tags.ceilometer_notification
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-notification:wallaby*
- images.tags.db_init
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-ceilometer-api:wallaby*
- images.tags.db_init_mongodb
 - Type: string
 - Description:
 - *docker.io/mongo:3.4.9-jessie*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string

- Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.test
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- ipmi_device
 - Type: string
 - Description:
 - */dev/ipmi0*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*

- labels.central.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.central.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.collector.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.collector.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.compute.node_selector_key
 - Type: string
 - Description:
 - *openstack-compute-node*
- labels.compute.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.ipmi.node_selector_key
 - Type: string
 - Description:
 - *openstack-node*
- labels.ipmi.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string

- Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.notification.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.notification.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.daemonset_compute
 - Type: bool
 - Description:
 - *true*

- manifests.daemonset_ipmi
 - Type: bool
 - Description:
 - *false*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_central
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_collector
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_notification
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool

- Description:
 - *true*
- manifests.job_db_init_mongodb
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*

- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.pod_rally_test
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_mongodb
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool

- Description:
 - *true*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *38777*
- network.api.port
 - Type: int
 - Description:
 - *8777*
- network_policy.ceilometer.egress[0]
 - Type: object
 - Description:
 - *{}*

- network_policy.ceilometer.ingress[0]
 - Type: object
 - Description:
 - {}
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *600*
- pod.lifecycle.upgrades.daemonsets.compute.enabled
 - Type: bool
 - Description:
 - *true*
- pod.lifecycle.upgrades.daemonsets.compute.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.lifecycle.upgrades.daemonsets.compute.min_ready_seconds
 - Type: int

- Description:
 - *0*
- pod.lifecycle.upgrades.daemonsets.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.ceilometer_api.ceilometer_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_api.ceilometer_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_api.init_container
 - Type: string
 - Description:
 - *nil*

- pod.mounts.ceilometer_central.ceilometer_central.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_central.ceilometer_central.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_central.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_collector.ceilometer_collector.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_collector.ceilometer_collector.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_collector.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_compute.ceilometer_compute.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_compute.ceilometer_compute.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_compute.init_container
 - Type: string

- Description:
 - *nil*
- pod.mounts.ceilometer_db_sync.ceilometer_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_db_sync.ceilometer_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_ipmi.ceilometer_ipmi.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_ipmi.ceilometer_ipmi.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_ipmi.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_notification.ceilometer_notification.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_notification.ceilometer_notification.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_notification.init_container
 - Type: string
 - Description:
 - *nil*

- pod.mounts.ceilometer_tests.ceilometer_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_tests.ceilometer_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ceilometer_tests.init_container
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.central
 - Type: int
 - Description:
 - *1*
- pod.replicas.collector
 - Type: int
 - Description:
 - *1*
- pod.replicas.notification
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.central.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.central.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.central.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.central.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.collector.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.collector.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.collector.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.collector.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.compute.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.compute.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.compute.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.compute.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *true*
- pod.resources.ipmi.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.ipmi.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.ipmi.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.ipmi.requests.memory
 - Type: string
 - Description:
 - *124Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init_mongodb.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init_mongodb.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.jobs.db_init_mongodb.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init_mongodb.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string

- Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*

- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string

- Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.notification.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.notification.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.notification.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.notification.requests.memory
 - Type: string
 - Description:
 - *128Mi*

- pod.tolerations.ceilometer.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.ceilometer.tolerations[0].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.ceilometer.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.ceilometer.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.ceilometer.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.ceilometer.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.ceilometer.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string

- Description:
 - *ceilometer-keystone-admin*
- secrets.identity.ceilometer
 - Type: string
 - Description:
 - *ceilometer-keystone-user*
- secrets.identity.test
 - Type: string
 - Description:
 - *ceilometer-keystone-test*
- secrets.mongodb.admin
 - Type: string
 - Description:
 - *ceilometer-mongodb-admin*
- secrets.mongodb.ceilometer
 - Type: string
 - Description:
 - *ceilometer-mongodb-user*
- secrets.oci_image_registry.ceilometer
 - Type: string
 - Description:
 - *ceilometer-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *ceilometer-db-admin*
- secrets.oslo_db.ceilometer
 - Type: string
 - Description:
 - *ceilometer-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *ceilometer-rabbitmq-admin*

- secrets.oslo_messaging.ceilometer
 - Type: string
 - Description:
 - *ceilometer-rabbitmq-user*

3.4 Cinder

There are various customizations you can do to tailor the deployment of OpenStack Cinder. You can find those below.

3.4.1 General Parameters

- backup.external_ceph_rbd.admin_keyring
 - Type: string
 - Description:
 - *nil*
- backup.external_ceph_rbd.conf.global
 - Type: string
 - Description:
 - *nil*
- backup.external_ceph_rbd.conf.osd
 - Type: string
 - Description:
 - *nil*
- backup.external_ceph_rbd.configmap
 - Type: string
 - Description:
 - *nil*
- backup.external_ceph_rbd.enabled
 - Type: bool
 - Description:
 - *false*
- backup.posix.volume.class_name
 - Type: string
 - Description:
 - *general*
- backup.posix.volume.size

- Type: string
 - Description:
 - *10Gi*
- bootstrap.bootstrap_conf_backends
 - Type: bool
 - Description:
 - *true*
- bootstrap.enabled
 - Type: bool
 - Description:
 - *true*
- bootstrap.ks_user
 - Type: string
 - Description:
 - *admin*
- bootstrap.volume_types.name.group
 - Type: string
 - Description:
 - *nil*
- bootstrap.volume_types.name.volume_backend_name
 - Type: string
 - Description:
 - *nil*
- ceph_client.configmap
 - Type: string
 - Description:
 - *ceph-etc*
- ceph_client.enable_external_ceph_backend
 - Type: bool
 - Description:
 - *false*
- ceph_client.external_ceph.conf.global
 - Type: string
 - Description:

- *nil*
- `ceph_client.external_ceph.conf.osd`
 - Type: string
 - Description:
 - *nil*
- `ceph_client.external_ceph.configmap`
 - Type: string
 - Description:
 - *nil*
- `ceph_client.external_ceph.rbd_user`
 - Type: string
 - Description:
 - *nil*
- `ceph_client.external_ceph.rbd_user_keyring`
 - Type: string
 - Description:
 - *nil*
- `ceph_client.internal_ceph_backend`
 - Type: string
 - Description:
 - *rbd1*
- `ceph_client.user_secret_name`
 - Type: string
 - Description:
 - *pvc-ceph-client-key*
- `conf.api_audit_map.DEFAULT.target_endpoint_type`
 - Type: string
 - Description:
 - *None*
- `conf.api_audit_map.custom_actions.associate`
 - Type: string
 - Description:
 - *update/associate*
- `conf.api_audit_map.custom_actions.associations`

- Type: string
 - Description:
 - *read/list/associations*
- conf.api_audit_map.custom_actions.disassociate
 - Type: string
 - Description:
 - *update/disassociate_all*
- conf.api_audit_map.custom_actions.disassociate_all
 - Type: string
 - Description:
 - *update/disassociate_all*
- conf.api_audit_map.path_keywords.defaults
 - Type: string
 - Description:
 - *None*
- conf.api_audit_map.path_keywords.detail
 - Type: string
 - Description:
 - *None*
- conf.api_audit_map.path_keywords.limits
 - Type: string
 - Description:
 - *None*
- conf.api_audit_map.path_keywords.os-quota-specs
 - Type: string
 - Description:
 - *project*
- conf.api_audit_map.path_keywords.qos-specs
 - Type: string
 - Description:
 - *qos-spec*
- conf.api_audit_map.path_keywords.snapshots
 - Type: string
 - Description:

- *snapshot*
- `conf.api_audit_map.path_keywords.types`
 - Type: string
 - Description:
 - *type*
- `conf.api_audit_map.path_keywords.volumes`
 - Type: string
 - Description:
 - *volume*
- `conf.api_audit_map.service_endpoints.volume`
 - Type: string
 - Description:
 - *service/storage/block*
- `conf.api_audit_map.service_endpoints.volumev2`
 - Type: string
 - Description:
 - *service/storage/block*
- `conf.api_audit_map.service_endpoints.volumev3`
 - Type: string
 - Description:
 - *service/storage/block*
- `conf.backends.rbd1.image_volume_cache_enabled`
 - Type: bool
 - Description:
 - *true*
- `conf.backends.rbd1.image_volume_cache_max_count`
 - Type: int
 - Description:
 - *50*
- `conf.backends.rbd1.image_volume_cache_max_size_gb`
 - Type: int
 - Description:
 - *200*
- `conf.backends.rbd1.rados_connect_timeout`

- Type: int
 - Description:
 - *-1*
- conf.backends.rbd1.rbd_ceph_conf
 - Type: string
 - Description:
 - */etc/ceph/ceph.conf*
- conf.backends.rbd1.rbd_flatten_volume_from_snapshot
 - Type: bool
 - Description:
 - *false*
- conf.backends.rbd1.rbd_max_clone_depth
 - Type: int
 - Description:
 - *5*
- conf.backends.rbd1.rbd_pool
 - Type: string
 - Description:
 - *cinder.volumes*
- conf.backends.rbd1.rbd_secret_uuid
 - Type: string
 - Description:
 - *457eb676-33da-42ec-9a8c-9293d545c337*
- conf.backends.rbd1.rbd_store_chunk_size
 - Type: int
 - Description:
 - *4*
- conf.backends.rbd1.rbd_user
 - Type: string
 - Description:
 - *cinder*
- conf.backends.rbd1.report_discard_supported
 - Type: bool
 - Description:

- *true*
- `conf.backends.rbd1.volume_backend_name`
 - Type: string
 - Description:
 - *rbd1*
- `conf.backends.rbd1.volume_driver`
 - Type: string
 - Description:
 - *cinder.volume.drivers.rbd.RBDDriver*
- `conf.ceph.admin_keyring`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph.append`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph.monitors`
 - Type: list
 - Description:
 - *[]*
- `conf.ceph.override`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph.pools.cinder.volumes.app_name`
 - Type: string
 - Description:
 - *cinder-volume*
- `conf.ceph.pools.cinder.volumes.chunk_size`
 - Type: int
 - Description:
 - *8*
- `conf.ceph.pools.cinder.volumes.crush_rule`

- Type: string
 - Description:
 - *replicated_rule*
- conf.ceph.pools.cinder.volumes.replication
 - Type: int
 - Description:
 - 3
- conf.ceph.pools.backup.app_name
 - Type: string
 - Description:
 - *cinder-backup*
- conf.ceph.pools.backup.chunk_size
 - Type: int
 - Description:
 - 8
- conf.ceph.pools.backup.crush_rule
 - Type: string
 - Description:
 - *replicated_rule*
- conf.ceph.pools.backup.replication
 - Type: int
 - Description:
 - 3
- conf.cinder.DEFAULT.auth_strategy
 - Type: string
 - Description:
 - *keystone*
- conf.cinder.DEFAULT.backup_ceph_conf
 - Type: string
 - Description:
 - */etc/ceph/ceph.conf*
- conf.cinder.DEFAULT.backup_ceph_pool
 - Type: string
 - Description:

- *cinder.backups*
- `conf.cinder.DEFAULT.backup_ceph_user`
 - Type: string
 - Description:
 - *cinderbackup*
- `conf.cinder.DEFAULT.backup_driver`
 - Type: string
 - Description:
 - *cinder.backup.drivers.swift.SwiftBackupDriver*
- `conf.cinder.DEFAULT.backup_posix_path`
 - Type: string
 - Description:
 - */var/lib/cinder/backup*
- `conf.cinder.DEFAULT.default_volume_type`
 - Type: string
 - Description:
 - *rbd*
- `conf.cinder.DEFAULT.enable_v1_api`
 - Type: bool
 - Description:
 - *false*
- `conf.cinder.DEFAULT.enable_v2_api`
 - Type: bool
 - Description:
 - *false*
- `conf.cinder.DEFAULT.enabled_backends`
 - Type: string
 - Description:
 - *rbd*
- `conf.cinder.DEFAULT.glance_api_version`
 - Type: int
 - Description:
 - *2*
- `conf.cinder.DEFAULT.host`

- Type: string
 - Description:
 - *cinder-volume-worker*
- conf.cinder.DEFAULT.internal_project_name
 - Type: string
 - Description:
 - *internal_cinder*
- conf.cinder.DEFAULT.internal_user_name
 - Type: string
 - Description:
 - *internal_cinder*
- conf.cinder.DEFAULT.log_config_append
 - Type: string
 - Description:
 - */etc/cinder/logging.conf*
- conf.cinder.DEFAULT.os_region_name
 - Type: string
 - Description:
 - *RegionOne*
- conf.cinder.DEFAULT.osapi_volume_listen_port
 - Type: string
 - Description:
 - *nil*
- conf.cinder.DEFAULT.osapi_volume_workers
 - Type: int
 - Description:
 - *1*
- conf.cinder.DEFAULT.resource_query_filters_file
 - Type: string
 - Description:
 - */etc/cinder/resource_filters.json*
- conf.cinder.DEFAULT.use_stderr
 - Type: bool
 - Description:

- *true*
- `conf.cinder.DEFAULT.use_syslog`
 - Type: bool
 - Description:
 - *false*
- `conf.cinder.DEFAULT.volume_name_template`
 - Type: string
 - Description:
 - *%s*
- `conf.cinder.DEFAULT.volume_usage_audit_period`
 - Type: string
 - Description:
 - *hour*
- `conf.cinder.coordination.backend_url`
 - Type: string
 - Description:
 - *file:///var/lib/cinder/coordination*
- `conf.cinder.database.max_retries`
 - Type: int
 - Description:
 - *-1*
- `conf.cinder.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.cinder.keystone_authtoken.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.cinder.keystone_authtoken.memcache_security_strategy`
 - Type: string
 - Description:
 - *ENCRYPT*
- `conf.cinder.keystone_authtoken.service_token_roles`

- Type: string
 - Description:
 - *service*
- conf.cinder.keystone_authtoken.service_token_roles_required
 - Type: bool
 - Description:
 - *true*
- conf.cinder.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *volumev3*
- conf.cinder.nova.auth_type
 - Type: string
 - Description:
 - *password*
- conf.cinder.nova.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.cinder.nova.interface
 - Type: string
 - Description:
 - *internal*
- conf.cinder.oslo_concurrency.lock_path
 - Type: string
 - Description:
 - */var/lib/cinder/tmp*
- conf.cinder.oslo_messaging_notifications.driver
 - Type: string
 - Description:
 - *messagingv2*
- conf.cinder.oslo_messaging_rabbit.rabbit_ha_queues
 - Type: bool
 - Description:

- *true*
- `conf.cinder.oslo_middleware.enable_proxy_headers_parsing`
 - Type: bool
 - Description:
 - *true*
- `conf.cinder.oslo_policy.policy_file`
 - Type: string
 - Description:
 - */etc/cinder/policy.yaml*
- `conf.cinder.service_user.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.cinder.service_user.send_service_user_token`
 - Type: bool
 - Description:
 - *true*
- `conf.cinder_api_uwsgi.uwsgi.add-header`
 - Type: string
 - Description:
 - *Connection: close*
- `conf.cinder_api_uwsgi.uwsgi.buffer-size`
 - Type: int
 - Description:
 - *65535*
- `conf.cinder_api_uwsgi.uwsgi.die-on-term`
 - Type: bool
 - Description:
 - *true*
- `conf.cinder_api_uwsgi.uwsgi.enable-threads`
 - Type: bool
 - Description:
 - *true*
- `conf.cinder_api_uwsgi.uwsgi.exit-on-reload`

- Type: bool
 - Description:
 - *false*
- conf.cinder_api_uwsgi.uwsgi.hook-master-start
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- conf.cinder_api_uwsgi.uwsgi.lazy-apps
 - Type: bool
 - Description:
 - *true*
- conf.cinder_api_uwsgi.uwsgi.log-x-forwarded-for
 - Type: bool
 - Description:
 - *true*
- conf.cinder_api_uwsgi.uwsgi.master
 - Type: bool
 - Description:
 - *true*
- conf.cinder_api_uwsgi.uwsgi.procname-prefix-spaced
 - Type: string
 - Description:
 - *cinder-api:*
- conf.cinder_api_uwsgi.uwsgi.route-user-agent
 - Type: string
 - Description:
 - *^kube-probe.* donotlog:*
- conf.cinder_api_uwsgi.uwsgi.thunder-lock
 - Type: bool
 - Description:
 - *true*
- conf.cinder_api_uwsgi.uwsgi.worker-reload-mercy
 - Type: int
 - Description:

- 80
- `conf.cinder_api_uwsgi.uwsgi.wsgi-file`
 - Type: string
 - Description:
 - `/var/lib/openstack/bin/cinder-wsgi`
- `conf.cinder_sudoers`
 - Type: string
 - Description:

```
# This sudoers file supports rootwrap for both Kolla and LOCI Images.
Defaults !requiretty
Defaults secure_path=\"/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/
↪bin:/sbin:/bin:/snap/bin:/var/lib/openstack/bin:/var/lib/kolla/
↪venv/bin\"
cinder ALL = (root) NOPASSWD: /var/lib/kolla/venv/bin/cinder-
↪rootwrap /etc/cinder/rootwrap.conf *, /var/lib/openstack/bin/
↪cinder-rootwrap /etc/cinder/rootwrap.conf *
```
- `conf.conversion_tmpfs_size`
 - Type: string
 - Description:
 - `10Gi`
- `conf.enable_conversion_tmpfs`
 - Type: bool
 - Description:
 - `false`
- `conf.enable_iscsi`
 - Type: bool
 - Description:
 - `false`
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - `oslo_log.formatters.ContextFormatter`
- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - `%Y-%m-%d %H:%M:%S`

- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - `%Y-%m-%d %H:%M:%S`
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - `%(message)s`
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - `context`
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - `default`
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - `()`
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - `logging.NullHandler`
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - `default`
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - `(sys.stderr,)`
- `conf.logging.handler_stderr.class`
 - Type: string

- Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - *(sys.stdout,)*
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*

- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_cinder.handlers[0]`
 - Type: string

- Description:
 - *stdout*
- `conf.logging.logger_cinder.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_cinder.qualname`
 - Type: string
 - Description:
 - *cinder*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*

- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *cinder*
- `conf.paste.app:apiv1.paste.app_factory`
 - Type: string
 - Description:
 - *cinder.api.v1.router:APIRouter.factory*
- `conf.paste.app:apiv2.paste.app_factory`
 - Type: string
 - Description:
 - *cinder.api.v2.router:APIRouter.factory*
- `conf.paste.app:apiv3.paste.app_factory`
 - Type: string
 - Description:
 - *cinder.api.v3.router:APIRouter.factory*
- `conf.paste.app:osvolumeversionapp.paste.app_factory`
 - Type: string
 - Description:
 - *cinder.api.versions:Versions.factory*
- `conf.paste.composite:openstack_volume_api_v1.keystone`
 - Type: string

- Description:
- *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler authtoken audit keystonecontext apiv1*
- conf.paste.composite:openstack_volume_api_v1.keystone_nolimit
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler authtoken audit keystonecontext apiv1*
- conf.paste.composite:openstack_volume_api_v1.noauth
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler noauth apiv1*
- conf.paste.composite:openstack_volume_api_v1.use
 - Type: string
 - Description:
 - *call:cinder.api.middleware.auth:pipeline_factory*
- conf.paste.composite:openstack_volume_api_v2.keystone
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler authtoken audit keystonecontext apiv2*
- conf.paste.composite:openstack_volume_api_v2.keystone_nolimit
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler authtoken audit keystonecontext apiv2*
- conf.paste.composite:openstack_volume_api_v2.noauth
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler noauth apiv2*
- conf.paste.composite:openstack_volume_api_v2.use
 - Type: string
 - Description:
 - *call:cinder.api.middleware.auth:pipeline_factory*
- conf.paste.composite:openstack_volume_api_v3.keystone
 - Type: string

- Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler authtoken audit keystonecontext apiv3*
 - conf.paste.composite:openstack_volume_api_v3.keystone_nolimit
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler authtoken audit keystonecontext apiv3*
 - conf.paste.composite:openstack_volume_api_v3.noauth
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi request_id faultwrap sizelimit osprofiler noauth apiv3*
 - conf.paste.composite:openstack_volume_api_v3.use
 - Type: string
 - Description:
 - *call:cinder.api.middleware.auth:pipeline_factory*
 - conf.paste.composite:osapi_volume./ul style="list-style-type: none;"> - Type: string
 - Description:
 - *apiversions*
- conf.paste.composite:osapi_volume./v1
 - Type: string
 - Description:
 - *openstack_volume_api_v1*
- conf.paste.composite:osapi_volume./v2
 - Type: string
 - Description:
 - *openstack_volume_api_v2*
- conf.paste.composite:osapi_volume./v3
 - Type: string
 - Description:
 - *openstack_volume_api_v3*
- conf.paste.composite:osapi_volume.use
 - Type: string
 - Description:

- *call:cinder.api.root_app_factory*
- `conf.paste.filter:audit.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.audit.filter_factory*
- `conf.paste.filter:audit.audit_map_file`
 - Type: string
 - Description:
 - */etc/cinder/api_audit_map.conf*
- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *cinder*
- `conf.paste.filter:faultwrap.paste.filter_factory`
 - Type: string
 - Description:
 - *cinder.api.middleware.fault:FaultWrapper.factory*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.http_proxy_to_wsgi:HTTPProxyToWSGI.factory*
- `conf.paste.filter:keystonecontext.paste.filter_factory`
 - Type: string
 - Description:
 - *cinder.api.middleware.auth:CinderKeystoneContext.factory*
- `conf.paste.filter:noauth.paste.filter_factory`

- Type: string
- Description:
- *cinder.api.middleware.auth.NoAuthMiddleware.factory*
- conf.paste.filter:osprofiler.paste.filter_factory
 - Type: string
 - Description:
 - *osprofiler.web:WsgiMiddleware.factory*
- conf.paste.filter:request_id.paste.filter_factory
 - Type: string
 - Description:
 - *oslo_middleware.request_id:RequestId.factory*
- conf.paste.filter:sizelimit.paste.filter_factory
 - Type: string
 - Description:
 - *oslo_middleware.sizelimit:RequestBodySizeLimiter.factory*
- conf.paste.pipeline:apiversions.pipeline
 - Type: string
 - Description:
 - *cors http_proxy_to_wsgi faultwrap osvolumeverSIONapp*
- conf.policy
 - Type: object
 - Description:
 - *{}*
- conf.rabbitmq.policies[0].apply-to
 - Type: string
 - Description:
 - *all*
- conf.rabbitmq.policies[0].definition.ha-mode
 - Type: string
 - Description:
 - *all*
- conf.rabbitmq.policies[0].definition.ha-sync-mode
 - Type: string
 - Description:

- *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
 - Type: int
 - Description:
 - *70000*
- `conf.rabbitmq.policies[0].name`
 - Type: string
 - Description:
 - *ha_ttl_cinder*
- `conf.rabbitmq.policies[0].pattern`
 - Type: string
 - Description:
 - *^(?!(amq\|reply_)).**
- `conf.rabbitmq.policies[0].priority`
 - Type: int
 - Description:
 - *0*
- `conf.rabbitmq.policies[0].vhost`
 - Type: string
 - Description:
 - *cinder*
- `conf.rally_tests.clean_up`
 - Type: string
 - Description:

```
VOLUMES=$(openstack volume list -f value | grep -e '^s_rally_' |
↪awk '{ print $1 }')
if [ -n "$VOLUMES" ]; then
  echo $VOLUMES | xargs openstack volume delete
fi
```
- `conf.rally_tests.run_tempest`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[0].args.size`
 - Type: int

- Description:
 - *1*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[1].args.size.max`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[1].args.size.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[1].runner.times`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.CinderVolumes.create_and_delete_volume[1].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.resource_filters.attachment[0]`
 - Type: string
 - Description:
 - *volume_id*
- `conf.resource_filters.attachment[1]`
 - Type: string
 - Description:
 - *status*
- `conf.resource_filters.attachment[2]`
 - Type: string
 - Description:
 - *instance_id*
- `conf.resource_filters.attachment[3]`
 - Type: string
 - Description:
 - *attach_status*
- `conf.resource_filters.backup[0]`
 - Type: string
 - Description:
 - *name*
- `conf.resource_filters.backup[1]`
 - Type: string
 - Description:
 - *status*
- `conf.resource_filters.backup[2]`
 - Type: string

- Description:
 - *volume_id*
- `conf.resource_filters.group`
 - Type: list
 - Description:
 - `[]`
- `conf.resource_filters.group_snapshot[0]`
 - Type: string
 - Description:
 - *status*
- `conf.resource_filters.group_snapshot[1]`
 - Type: string
 - Description:
 - *group_id*
- `conf.resource_filters.message[0]`
 - Type: string
 - Description:
 - *resource_uuid*
- `conf.resource_filters.message[1]`
 - Type: string
 - Description:
 - *resource_type*
- `conf.resource_filters.message[2]`
 - Type: string
 - Description:
 - *event_id*
- `conf.resource_filters.message[3]`
 - Type: string
 - Description:
 - *request_id*
- `conf.resource_filters.message[4]`
 - Type: string
 - Description:
 - *message_level*

- `conf.resource_filters.pool[0]`
 - Type: string
 - Description:
 - *name*
- `conf.resource_filters.pool[1]`
 - Type: string
 - Description:
 - *volume_type*
- `conf.resource_filters.snapshot[0]`
 - Type: string
 - Description:
 - *name*
- `conf.resource_filters.snapshot[1]`
 - Type: string
 - Description:
 - *status*
- `conf.resource_filters.snapshot[2]`
 - Type: string
 - Description:
 - *volume_id*
- `conf.resource_filters.snapshot[3]`
 - Type: string
 - Description:
 - *metadata*
- `conf.resource_filters.snapshot[4]`
 - Type: string
 - Description:
 - *availability_zone*
- `conf.resource_filters.volume[0]`
 - Type: string
 - Description:
 - *name*
- `conf.resource_filters.volume[1]`
 - Type: string

- Description:
- *status*
- `conf.resource_filters.volume[2]`
 - Type: string
 - Description:
 - *metadata*
- `conf.resource_filters.volume[3]`
 - Type: string
 - Description:
 - *bootable*
- `conf.resource_filters.volume[4]`
 - Type: string
 - Description:
 - *migration_status*
- `conf.resource_filters.volume[5]`
 - Type: string
 - Description:
 - *availability_zone*
- `conf.resource_filters.volume[6]`
 - Type: string
 - Description:
 - *group_id*
- `conf.resource_filters.volume_type`
 - Type: list
 - Description:
 - `[]`
- `conf.rootwrap`
 - Type: string
 - Description:

```

– # Configuration for cinder-rootwrap
  # This file should be owned by (and only-writeable by) the root user

  [DEFAULT]
  # List of directories to load filter definitions from (separated by ',
  ↪').
  # These directories MUST all be only writeable by root !
    
```

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```

filters_path=/etc/cinder/rootwrap.d

# List of directories to search executables in, in case filters do
↳not
# explicitly specify a full path (separated by ',')
# If not specified, defaults to system PATH environment variable.
# These directories MUST all be only writeable by root !
exec_dirs=/sbin,/usr/sbin,/bin,/usr/bin,/usr/local/bin,/usr/local/
↳sbin,/var/lib/openstack/bin,/var/lib/kolla/venv/bin

# Enable logging to syslog
# Default value is False
use_syslog=False

# Which syslog facility to use.
# Valid values include auth, authpriv, syslog, local0, local1...
# Default value is 'syslog'
syslog_log_facility=syslog

# Which messages to log.
# INFO means log all usage
# ERROR means only log unsuccessful attempts
syslog_log_level=ERROR

```

- `conf.rootwrap_filters.volume.content`

- Type: string
- Description:

```

- # cinder-rootwrap command filters for volume nodes
# This file should be owned by (and only-writeable by) the root user

[Filters]
# cinder/volume/iscsi.py: iscsi_helper '--op' ...
ietadm: CommandFilter, ietadm, root
tgtadm: CommandFilter, tgtadm, root
iscsictl: CommandFilter, iscsictl, root
tgt-admin: CommandFilter, tgt-admin, root
cinder-rtstool: CommandFilter, cinder-rtstool, root
scstadmin: CommandFilter, scstadmin, root

# LVM related show commands
pvs: EnvFilter, env, root, LC_ALL=C, pvs
vgs: EnvFilter, env, root, LC_ALL=C, vgs
lvs: EnvFilter, env, root, LC_ALL=C, lvs
lvdisplay: EnvFilter, env, root, LC_ALL=C, lvdisplay

# -LVM related show commands with suppress fd warnings
pvs_fdwarn: EnvFilter, env, root, LC_ALL=C, LVM_SUPPRESS_FD_
↳WARNINGS=, pvs

```

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```

vgs_fdwarn: EnvFilter, env, root, LC_ALL=C, LVM_SUPPRESS_FD_
↳WARNINGS=, vgs
lvs_fdwarn: EnvFilter, env, root, LC_ALL=C, LVM_SUPPRESS_FD_
↳WARNINGS=, lvs
lvdisplay_fdwarn: EnvFilter, env, root, LC_ALL=C, LVM_SUPPRESS_FD_
↳WARNINGS=, lvdisplay

# -LVM related show commands conf var
pvs_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C, pvs
vgs_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C, vgs
lvs_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C, lvs
lvdisplay_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C,
↳lvdisplay

# -LVM conf var with suppress fd_warnings
pvs_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C, LVM_
↳SUPPRESS_FD_WARNINGS=, pvs
vgs_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C, LVM_
↳SUPPRESS_FD_WARNINGS=, vgs
lvs_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C, LVM_
↳SUPPRESS_FD_WARNINGS=, lvs
lvdisplay_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C,
↳LVM_SUPPRESS_FD_WARNINGS=, lvdisplay

# os-brick library commands
# os_brick.privileged.run_as_root oslo.privsep context
# This line ties the superuser privs with the config files, context
↳name,
# and (implicitly) the actual python code invoked.
privsep-rootwrap: RegExpFilter, privsep-helper, root, privsep-helper,
↳ --config-file, /etc/(?!\.\.)*, --privsep_context, os_brick.
↳privileged.default, --privsep_sock_path, /tmp.*
# The following and any cinder/brick/* entries should all be
↳obsoleted
# by privsep, and may be removed once the os-brick version
↳requirement
# is updated appropriately.
scsi_id: CommandFilter, /lib/udev/scsi_id, root
drbdadm: CommandFilter, drbdadm, root

# cinder/brick/local_dev/lvm.py: 'vgcreate', vg_name, pv_list
vgcreate: CommandFilter, vgcreate, root

# cinder/brick/local_dev/lvm.py: 'lvcreate', '-L', sizestr, '-n',
↳volume_name,..
# cinder/brick/local_dev/lvm.py: 'lvcreate', '-L', ...
lvcreate: EnvFilter, env, root, LC_ALL=C, lvcreate
lvcreate_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C,
↳

```

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```

↪lvcreate
lvcreate_fdwarn: EnvFilter, env, root, LC_ALL=C, LVM_SUPPRESS_FD_
↪WARNINGS=, lvcreate
lvcreate_lvmconf_fdwarn: EnvFilter, env, root, LVM_SYSTEM_DIR=, LVM_
↪SUPPRESS_FD_WARNINGS=, LC_ALL=C, lvcreate

# cinder/volume/driver.py: 'dd', 'if=%s' % srcstr, 'of=%s' % deststr,
↪...
dd: CommandFilter, dd, root

# cinder/volume/driver.py: 'lvremove', '-f', %s/%s % ...
lvremove: CommandFilter, lvremove, root

# cinder/volume/driver.py: 'lvrename', '%(vg)s', '%(orig)s' '(new)s'.
↪...
lvrename: CommandFilter, lvrename, root

# cinder/brick/local_dev/lvm.py: 'lvextend', '-L' '%(new_size)s', '
↪%(lv_name)s' ...
# cinder/brick/local_dev/lvm.py: 'lvextend', '-L' '%(new_size)s', '
↪%(thin_pool)s' ...
lvextend: EnvFilter, env, root, LC_ALL=C, lvextend
lvextend_lvmconf: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_ALL=C,
↪lvextend
lvextend_fdwarn: EnvFilter, env, root, LC_ALL=C, LVM_SUPPRESS_FD_
↪WARNINGS=, lvextend
lvextend_lvmconf_fdwarn: EnvFilter, env, root, LVM_SYSTEM_DIR=, LC_
↪ALL=C, LVM_SUPPRESS_FD_WARNINGS=, lvextend

# cinder/brick/local_dev/lvm.py: 'lvchange -a y -K <lv>'
lvchange: CommandFilter, lvchange, root

# cinder/brick/local_dev/lvm.py: 'lvconvert', '--merge', snapshot_
↪name
lvconvert: CommandFilter, lvconvert, root

# cinder/volume/driver.py: 'iscsiadm', '-m', 'discovery', '-t',...
# cinder/volume/driver.py: 'iscsiadm', '-m', 'node', '-T', ...
iscsiadm: CommandFilter, iscsiadm, root

# cinder/volume/utils.py: utils.temporary_chown(path, 0)
chown: CommandFilter, chown, root

# cinder/volume/utils.py: copy_volume(..., ionice='...')
ionice_1: ChainingRegExpFilter, ionice, root, ionice, -c[0-3], -n[0-
↪7]
ionice_2: ChainingRegExpFilter, ionice, root, ionice, -c[0-3]

# cinder/volume/utils.py: setup_blkio_cgroup()

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```

cgcreate: CommandFilter, cgcreate, root
cgset: CommandFilter, cgset, root
cgexec: ChainingRegExpFilter, cgexec, root, cgexec, -g, blkio:\\S+

# cinder/volume/driver.py
dmsetup: CommandFilter, dmsetup, root
ln: CommandFilter, ln, root

# cinder/image/image_utils.py
qemu-img: EnvFilter, env, root, LC_ALL=C, qemu-img
qemu-img_convert: CommandFilter, qemu-img, root

udevadm: CommandFilter, udevadm, root

# cinder/volume/driver.py: utils.read_file_as_root()
cat: CommandFilter, cat, root

# cinder/volume/nfs.py
stat: CommandFilter, stat, root
mount: CommandFilter, mount, root
df: CommandFilter, df, root
du: CommandFilter, du, root
truncate: CommandFilter, truncate, root
chmod: CommandFilter, chmod, root
rm: CommandFilter, rm, root

# cinder/volume/drivers/remotefs.py
mkdir: CommandFilter, mkdir, root

# cinder/volume/drivers/netapp/nfs.py
netapp_nfs_find: RegExpFilter, find, root, find, ^[/]*([^\0]+(/+)?
↪)*$, -maxdepth, \\d+, -name, img-cache.*, -amin, \\+\\d+

# cinder/volume/drivers/glusterfs.py
chgrp: CommandFilter, chgrp, root
umount: CommandFilter, umount, root
fallocate: CommandFilter, fallocate, root

# cinder/volumes/drivers/hds/hds.py
hus-cmd: CommandFilter, hus-cmd, root
hus-cmd_local: CommandFilter, /usr/local/bin/hus-cmd, root

# cinder/volumes/drivers/hds/hnas_backend.py
ssc: CommandFilter, ssc, root

# cinder/brick/initiator/connector.py
ls: CommandFilter, ls, root
tee: CommandFilter, tee, root
multipath: CommandFilter, multipath, root

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multipathd: CommandFilter, multipathd, root
systool: CommandFilter, systool, root

# cinder/volume/drivers/block_device.py
blockdev: CommandFilter, blockdev, root

# cinder/volume/drivers/ibm/gpfs.py
# cinder/volume/drivers/tintri.py
mv: CommandFilter, mv, root

# cinder/volume/drivers/ibm/gpfs.py
cp: CommandFilter, cp, root
mmgetstate: CommandFilter, /usr/lpp/mmfs/bin/mmgetstate, root
mmclone: CommandFilter, /usr/lpp/mmfs/bin/mmclone, root
mmlsattr: CommandFilter, /usr/lpp/mmfs/bin/mmlsattr, root
mmchattr: CommandFilter, /usr/lpp/mmfs/bin/mmchattr, root
mmlsconfig: CommandFilter, /usr/lpp/mmfs/bin/mmlsconfig, root
mmlsfs: CommandFilter, /usr/lpp/mmfs/bin/mmlsfs, root
mmlspool: CommandFilter, /usr/lpp/mmfs/bin/mmlspool, root
mkfs: CommandFilter, mkfs, root
mmcrfileset: CommandFilter, /usr/lpp/mmfs/bin/mmcrfileset, root
mmmlinkfileset: CommandFilter, /usr/lpp/mmfs/bin/mmmlinkfileset, root
mmunlinkfileset: CommandFilter, /usr/lpp/mmfs/bin/mmunlinkfileset,
↪root
mmdelfileset: CommandFilter, /usr/lpp/mmfs/bin/mmdelfileset, root
mmcrsnapshot: CommandFilter, /usr/lpp/mmfs/bin/mmcrsnapshot, root
mmdelsnapshot: CommandFilter, /usr/lpp/mmfs/bin/mmdelsnapshot, root

# cinder/volume/drivers/ibm/gpfs.py
# cinder/volume/drivers/ibm/ibmnas.py
find_maxdepth_inum: RegExpFilter, find, root, find, ^[/]*([^\0]+(/
↪+)?)*$, -maxdepth, \d+, -ignore_readdir_race, -inum, \d+, -
↪print0, -quit

# cinder/brick/initiator/connector.py:
aoe-revalidate: CommandFilter, aoe-revalidate, root
aoe-discover: CommandFilter, aoe-discover, root
aoe-flush: CommandFilter, aoe-flush, root

# cinder/brick/initiator/linuxscsi.py:
sg_scan: CommandFilter, sg_scan, root

#cinder/backup/services/tsm.py
dsmc: CommandFilter, /usr/bin/dsmc, root

# cinder/volume/drivers/hitachi/hbsd_horc.py
raidqry: CommandFilter, raidqry, root
raidcom: CommandFilter, raidcom, root
pairsplit: CommandFilter, pairsplit, root

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paircreate: CommandFilter, paircreate, root
pairedisplay: CommandFilter, pairedisplay, root
pairevtwait: CommandFilter, pairevtwait, root
horcmstart.sh: CommandFilter, horcmstart.sh, root
horcmshutdown.sh: CommandFilter, horcmshutdown.sh, root
horcmgr: EnvFilter, env, root, HORCMINST=, /etc/horcmgr

# cinder/volume/drivers/hitachi/hbsd_snm2.py
auman: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_PATH=, ↵
↳STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auman
auluref: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auluref
auhgdef: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auhgdef
aufibre1: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/aufibre1
auhgwn: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auhgwn
auhgmap: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auhgmap
autargetmap: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/autargetmap
aureplicationvvol: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_
↳LIBRARY_PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/
↳aureplicationvvol
auluadd: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auluadd
auludel: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auludel
auluchgsize: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auluchgsize
auchapuser: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auchapuser
autargetdef: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/autargetdef
autargetopt: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/autargetopt
autargetini: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/autargetini
auiscsi: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/auiscsi
audppool: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_LIBRARY_
↳PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/audppool
aureplicationlocal: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_
↳LIBRARY_PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/
↳aureplicationlocal
aureplicationmon: EnvFilter, env, root, LANG=, STONAVM_HOME=, LD_
↳LIBRARY_PATH=, STONAVM_RSP_PASS=, STONAVM_ACT=, /usr/stonavm/
↳aureplicationmon

```

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```
# cinder/volume/drivers/hgst.py
vgc-cluster: CommandFilter, vgc-cluster, root

# cinder/volume/drivers/vzstorage.py
pstorage-mount: CommandFilter, pstorage-mount, root
pstorage: CommandFilter, pstorage, root
ploop: CommandFilter, ploop, root

# initiator/connector.py:
drv_cfg: CommandFilter, /opt/emc/scaleio/sdc/bin/drv_cfg, root, /opt/
↪emc/scaleio/sdc/bin/drv_cfg, --query_guid
```

- `conf.rootwrap_filters.volume.pods[0]`
 - Type: string
 - Description:
 - *volume*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
 - Type: string
 - Description:
 - *cinder-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`
 - Type: string
 - Description:
 - *node*
- `dependencies.dynamic.common.local_image_registry.services[0].service`
 - Type: string
 - Description:
 - *local_image_registry*
- `dependencies.static.api.jobs[0]`
 - Type: string
 - Description:
 - *cinder-db-sync*
- `dependencies.static.api.jobs[1]`
 - Type: string
 - Description:
 - *cinder-ks-user*
- `dependencies.static.api.jobs[2]`

- Type: string
 - Description:
 - *cinder-ks-endpoints*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *cinder-rabbit-init*
- dependencies.static.api.jobs[4]
 - Type: string
 - Description:
 - *cinder-storage-init*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.backup.jobs[0]
 - Type: string
 - Description:
 - *cinder-db-sync*
- dependencies.static.backup.jobs[1]
 - Type: string
 - Description:

- *cinder-ks-user*
- dependencies.static.backup.jobs[2]
 - Type: string
 - Description:
 - *cinder-ks-endpoints*
- dependencies.static.backup.jobs[3]
 - Type: string
 - Description:
 - *cinder-rabbit-init*
- dependencies.static.backup.jobs[4]
 - Type: string
 - Description:
 - *cinder-storage-init*
- dependencies.static.backup.jobs[5]
 - Type: string
 - Description:
 - *cinder-backup-storage-init*
- dependencies.static.backup.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.backup.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.backup.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.backup.services[1].service
 - Type: string
 - Description:
 - *volume*
- dependencies.static.backup_storage_init.jobs

- Type: string
 - Description:
 - *nil*
- dependencies.static.bootstrap.pod[0].labels.application
 - Type: string
 - Description:
 - *cinder*
- dependencies.static.bootstrap.pod[0].labels.component
 - Type: string
 - Description:
 - *volume*
- dependencies.static.bootstrap.pod[0].requireSameNode
 - Type: bool
 - Description:
 - *false*
- dependencies.static.bootstrap.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.bootstrap.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.bootstrap.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.bootstrap.services[1].service
 - Type: string
 - Description:
 - *volume*
- dependencies.static.clean.jobs
 - Type: string
 - Description:

- *nil*
- dependencies.static.create_internal_tenant.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.create_internal_tenant.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *cinder-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service

- Type: string
 - Description:
 - *oslo_db*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *cinder-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.scheduler.jobs[0]
 - Type: string
 - Description:
 - *cinder-db-sync*
- dependencies.static.scheduler.jobs[1]
 - Type: string
 - Description:
 - *cinder-ks-user*
- dependencies.static.scheduler.jobs[2]
 - Type: string
 - Description:
 - *cinder-ks-endpoints*
- dependencies.static.scheduler.jobs[3]
 - Type: string
 - Description:
 - *cinder-rabbit-init*
- dependencies.static.scheduler.jobs[4]
 - Type: string
 - Description:
 - *cinder-storage-init*
- dependencies.static.scheduler.services[0].endpoint

- Type: string
 - Description:
 - *internal*
- dependencies.static.scheduler.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.scheduler.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.scheduler.services[1].service
 - Type: string
 - Description:
 - *volume*
- dependencies.static.storage_init.jobs
 - Type: string
 - Description:
 - *nil*
- dependencies.static.tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.tests.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[1].service
 - Type: string
 - Description:

- *volume*
- dependencies.static.volume.jobs[0]
 - Type: string
 - Description:
 - *cinder-db-sync*
- dependencies.static.volume.jobs[1]
 - Type: string
 - Description:
 - *cinder-ks-user*
- dependencies.static.volume.jobs[2]
 - Type: string
 - Description:
 - *cinder-ks-endpoints*
- dependencies.static.volume.jobs[3]
 - Type: string
 - Description:
 - *cinder-rabbit-init*
- dependencies.static.volume.jobs[4]
 - Type: string
 - Description:
 - *cinder-storage-init*
- dependencies.static.volume.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.volume.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.volume.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.volume.services[1].service

- Type: string
 - Description:
 - *volume*
- dependencies.static.volume_usage_audit.jobs[0]
 - Type: string
 - Description:
 - *cinder-db-sync*
- dependencies.static.volume_usage_audit.jobs[1]
 - Type: string
 - Description:
 - *cinder-ks-user*
- dependencies.static.volume_usage_audit.jobs[2]
 - Type: string
 - Description:
 - *cinder-ks-endpoints*
- dependencies.static.volume_usage_audit.jobs[3]
 - Type: string
 - Description:
 - *cinder-rabbit-init*
- dependencies.static.volume_usage_audit.jobs[4]
 - Type: string
 - Description:
 - *cinder-storage-init*
- dependencies.static.volume_usage_audit.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.volume_usage_audit.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.volume_usage_audit.services[1].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.volume_usage_audit.services[1].service
 - Type: string
 - Description:
 - *volume*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:
 - *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default

- Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.cinder.password
 - Type: string
 - Description:

- *password*
- endpoints.identity.auth.cinder.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.cinder.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.cinder.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.cinder.role
 - Type: string
 - Description:
 - *admin,service*
- endpoints.identity.auth.cinder.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.cinder.username
 - Type: string
 - Description:
 - *cinder*
- endpoints.identity.auth.test.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.project_name

- Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.username
 - Type: string
 - Description:
 - *cinder-test*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:

- *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.image.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.image.hosts.default
 - Type: string
 - Description:
 - *glance-api*
- endpoints.image.hosts.public
 - Type: string
 - Description:
 - *glance*
- endpoints.image.name
 - Type: string
 - Description:
 - *glance*
- endpoints.image.path.default

- Type: string
 - Description:
 - *nil*
- endpoints.image.port.api.default
 - Type: int
 - Description:
 - 9292
- endpoints.image.port.api.public
 - Type: int
 - Description:
 - 80
- endpoints.image.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.ingress.hosts.default
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.name
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.ingress.port.ingress.default
 - Type: int
 - Description:
 - 80
- endpoints.kube_dns.host_fqdn_override.default
 - Type: string
 - Description:

- *nil*
- endpoints.kube_dns.hosts.default
 - Type: string
 - Description:
 - *kube-dns*
- endpoints.kube_dns.name
 - Type: string
 - Description:
 - *kubernetes-dns*
- endpoints.kube_dns.namespace
 - Type: string
 - Description:
 - *kube-system*
- endpoints.kube_dns.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.kube_dns.port.dns.default
 - Type: int
 - Description:
 - *53*
- endpoints.kube_dns.port.dns.protocol
 - Type: string
 - Description:
 - *UDP*
- endpoints.kube_dns.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default

- Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.cinder.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.cinder.username
 - Type: string
 - Description:
 - *cinder*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:

- *false*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default

- Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *mariadb-tls-direct*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.cinder.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.cinder.username
 - Type: string
 - Description:
 - *cinder*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:

- */cinder*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *rabbitmq-tls-direct*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.cinder.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.cinder.username
 - Type: string
 - Description:
 - *cinder*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default

- Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */cinder*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- endpoints.volume.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.volume.hosts.default
 - Type: string
 - Description:

- *cinder-api*
- endpoints.volume.hosts.public
 - Type: string
 - Description:
 - *cinder*
- endpoints.volume.name
 - Type: string
 - Description:
 - *cinder*
- endpoints.volume.path.default
 - Type: string
 - Description:
 - */v1/%(tenant_id)s*
- endpoints.volume.port.api.default
 - Type: int
 - Description:
 - *8776*
- endpoints.volume.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.volume.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.volumev2.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.volumev2.hosts.default
 - Type: string
 - Description:
 - *cinder-api*
- endpoints.volumev2.hosts.public

- Type: string
 - Description:
 - *cinder*
- endpoints.volumev2.name
 - Type: string
 - Description:
 - *cinderv2*
- endpoints.volumev2.path.default
 - Type: string
 - Description:
 - */v2/(tenant_id)s*
- endpoints.volumev2.port.api.default
 - Type: int
 - Description:
 - *8776*
- endpoints.volumev2.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.volumev2.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.volumev3.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.volumev3.hosts.default
 - Type: string
 - Description:
 - *cinder-api*
- endpoints.volumev3.hosts.public
 - Type: string
 - Description:

- *cinder*
- endpoints.volumev3.name
 - Type: string
 - Description:
 - *cinderv3*
- endpoints.volumev3.path.default
 - Type: string
 - Description:
 - */v3/%(tenant_id)s*
- endpoints.volumev3.port.api.default
 - Type: int
 - Description:
 - *8776*
- endpoints.volumev3.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.volumev3.scheme.default
 - Type: string
 - Description:
 - *http*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]

- Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.cinder_api
 - Type: string
 - Description:
 - *quay.io/airshipit/cinder:2024.1-ubuntu_jammy*
- images.tags.cinder_backup
 - Type: string
 - Description:
 - *quay.io/airshipit/cinder:2024.1-ubuntu_jammy*
- images.tags.cinder_backup_storage_init
 - Type: string
 - Description:
 - *docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_jammy*
- images.tags.cinder_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/cinder:2024.1-ubuntu_jammy*
- images.tags.cinder_scheduler
 - Type: string
 - Description:
 - *quay.io/airshipit/cinder:2024.1-ubuntu_jammy*
- images.tags.cinder_storage_init
 - Type: string
 - Description:

- *docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_jammy*
- images.tags.cinder_volume
 - Type: string
 - Description:
 - *quay.io/airshipit/cinder:2024.1-ubuntu_jammy*
- images.tags.cinder_volume_usage_audit
 - Type: string
 - Description:
 - *quay.io/airshipit/cinder:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user

- Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.test
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- jobs.volume_usage_audit.cron
 - Type: string
 - Description:
 - *5 * * * **
- jobs.volume_usage_audit.history.failed
 - Type: int
 - Description:
 - *1*
- jobs.volume_usage_audit.history.success
 - Type: int
 - Description:
 - *3*
- jobs.volume_usage_audit.starting_deadline
 - Type: int
 - Description:
 - *600*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:

- *enabled*
- labels.backup.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.backup.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.scheduler.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.scheduler.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.volume.node_selector_key

- Type: string
 - Description:
 - *openstack-control-plane*
- labels.volume.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.certificates
 - Type: bool
 - Description:
 - *false*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.cron_volume_usage_audit
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_backup
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_scheduler
 - Type: bool
 - Description:

- *true*
- manifests.deployment_volume
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_backup_storage_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_clean
 - Type: bool
 - Description:
 - *true*
- manifests.job_create_internal_tenant
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync

- Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_storage_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api
 - Type: bool
 - Description:

- *true*
- manifests.pod_rally_test
 - Type: bool
 - Description:
 - *true*
- manifests.pvc_backup
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api

- Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30877*
- network_policy.cinder.egress[0]
 - Type: object
 - Description:

- {}
- network_policy.cinder.ingress[0]
 - Type: object
 - Description:
 - {}
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge

- Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - 1
- pod.mounts.cinder_api.cinder_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_api.cinder_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_backup.cinder_backup.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_backup.cinder_backup.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_backup.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_db_sync.cinder_db_sync.volumeMounts
 - Type: string
 - Description:

- *nil*
- pod.mounts.cinder_db_sync.cinder_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_scheduler.cinder_scheduler.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_scheduler.cinder_scheduler.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_scheduler.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_tests.cinder_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_tests.cinder_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_tests.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_volume.cinder_volume.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_volume.cinder_volume.volumes

- Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_volume.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_volume_usage_audit.cinder_volume_usage_audit.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_volume_usage_audit.cinder_volume_usage_audit.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cinder_volume_usage_audit.init_container
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.backup
 - Type: int
 - Description:
 - *1*
- pod.replicas.scheduler
 - Type: int
 - Description:
 - *1*
- pod.replicas.volume
 - Type: int
 - Description:

- *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.backup_storage_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.backup_storage_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.backup_storage_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.backup_storage_init.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.clean.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.clean.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.clean.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.clean.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:

- *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.storage_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.storage_init.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.jobs.storage_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.storage_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.volume_usage_audit.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.volume_usage_audit.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.volume_usage_audit.requests.cpu

- Type: string
 - Description:
 - *100m*
- pod.resources.jobs.volume_usage_audit.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.scheduler.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.scheduler.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.scheduler.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.scheduler.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.volume.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.volume.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.volume.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.volume.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.security_context.cinder_api.container.ceph_coordination_volume_perms.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_api.container.ceph_coordination_volume_perms.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_api.container.cinder_api.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.cinder_api.container.cinder_api.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_api.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.security_context.cinder_backup.container.ceph_backup_keyring_placement.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_backup.container.ceph_backup_keyring_placement.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_backup.container.ceph_backup_volume_perms.readOnlyRootFilesystem

- Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_backup.container.ceph_backup_volume_perms.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_backup.container.ceph_coordination_volume_perms.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_backup.container.ceph_coordination_volume_perms.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_backup.container.ceph_keyring_placement.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_backup.container.ceph_keyring_placement.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_backup.container.cinder_backup.capabilities.add[0]
 - Type: string
 - Description:
 - *SYS_ADMIN*
- pod.security_context.cinder_backup.container.cinder_backup.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_backup.container.cinder_backup.runAsUser
 - Type: int
 - Description:

- 0
- pod.security_context.cinder_backup.pod.runAsUser
 - Type: int
 - Description:
 - 42424
- pod.security_context.cinder_scheduler.container.ceph_coordination_volume_perms.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - true
- pod.security_context.cinder_scheduler.container.ceph_coordination_volume_perms.runAsUser
 - Type: int
 - Description:
 - 0
- pod.security_context.cinder_scheduler.container.cinder_scheduler.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - false
- pod.security_context.cinder_scheduler.container.cinder_scheduler.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - true
- pod.security_context.cinder_scheduler.pod.runAsUser
 - Type: int
 - Description:
 - 42424
- pod.security_context.cinder_volume.container.ceph_coordination_volume_perms.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - true
- pod.security_context.cinder_volume.container.ceph_coordination_volume_perms.runAsUser
 - Type: int
 - Description:
 - 0
- pod.security_context.cinder_volume.container.ceph_keyring_placement.readOnlyRootFilesystem

- Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_volume.container.ceph_keyring_placement.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_volume.container.cinder_volume.capabilities.add[0]
 - Type: string
 - Description:
 - *SYS_ADMIN*
- pod.security_context.cinder_volume.container.cinder_volume.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_volume.container.init_cinder_conf.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.cinder_volume.container.init_cinder_conf.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.cinder_volume.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.security_context.clean.container.cinder_volume_rbd_secret_clean.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.clean.container.cinder_volume_rbd_secret_clean.readOnlyRootFilesystem
 - Type: bool
 - Description:

- *true*
- pod.security_context.clean.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.security_context.create_internal_tenant.container.create_internal_tenant.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.create_internal_tenant.container.create_internal_tenant.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.create_internal_tenant.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.security_context.storage_init.container.ceph_keyring_placement.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.storage_init.container.ceph_keyring_placement.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.storage_init.container.cinder_backup_storage_init.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.storage_init.container.cinder_backup_storage_init.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.storage_init.pod.runAsUser

- Type: int
 - Description:
 - *42424*
- pod.security_context.volume_usage_audit.container.cinder_volume_usage_audit.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.volume_usage_audit.container.cinder_volume_usage_audit.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.volume_usage_audit.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.tolerations.cinder.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.cinder.tolerations[0].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.cinder.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.cinder.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.cinder.tolerations[1].effect
 - Type: string
 - Description:

- *NoSchedule*
- pod.tolerations.cinder.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.cinder.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- pod.useHostNetwork.backup
 - Type: bool
 - Description:
 - *false*
- pod.useHostNetwork.volume
 - Type: bool
 - Description:
 - *false*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *cinder-keystone-admin*
- secrets.identity.cinder
 - Type: string
 - Description:
 - *cinder-keystone-user*
- secrets.identity.test
 - Type: string
 - Description:
 - *cinder-keystone-test*
- secrets.oci_image_registry.cinder

- Type: string
 - Description:
 - *cinder-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *cinder-db-admin*
- secrets.oslo_db.cinder
 - Type: string
 - Description:
 - *cinder-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *cinder-rabbitmq-admin*
- secrets.oslo_messaging.cinder
 - Type: string
 - Description:
 - *cinder-rabbitmq-user*
- secrets.rbd.backup
 - Type: string
 - Description:
 - *cinder-backup-rbd-keyring*
- secrets.rbd.volume
 - Type: string
 - Description:
 - *cinder-volume-rbd-keyring*
- secrets.rbd.volume_external
 - Type: string
 - Description:
 - *cinder-volume-external-rbd-keyring*
- secrets.tls.volumev3.api.internal
 - Type: string
 - Description:

- *cinder-tls-api*
- secrets.tls.volume3.api.public
 - Type: string
 - Description:
 - *cinder-tls-public*
- storage
 - Type: string
 - Description:
 - *ceph*
- tls.identity
 - Type: bool
 - Description:
 - *false*
- tls.oslo_db
 - Type: bool
 - Description:
 - *false*
- tls.oslo_messaging
 - Type: bool
 - Description:
 - *false*

3.5 Cyborg

There are various customizations you can do to tailor the deployment of OpenStack Cyborg. You can find those below.

3.5.1 General Parameters

- conf.cyborg.DEFAULT.debug
 - Type: bool
 - Description:
 - *true*
- conf.cyborg.DEFAULT.state_path
 - Type: string
 - Description:
 - */var/lib/cyborg*

- `conf.cyborg.DEFAULT.use_syslog`
 - Type: `bool`
 - Description:
 - *false*
- `conf.cyborg.agent.enabled_drivers[0]`
 - Type: `string`
 - Description:
 - *nvidia_gpu_driver*
- `conf.cyborg.api.api_workers`
 - Type: `int`
 - Description:
 - *3*
- `conf.cyborg.api.host_ip`
 - Type: `string`
 - Description:
 - *0.0.0.0*
- `conf.cyborg.cyborg_sys_admin.helper_command`
 - Type: `string`
 - Description:
 - */var/lib/openstack/bin/privsep-helper*
- `conf.cyborg.database.connection`
 - Type: `string`
 - Description:
 - *nil*
- `conf.cyborg.gpu_devices.enabled_vgpu_types`
 - Type: `list`
 - Description:
 - *[]*
- `conf.cyborg.keystone_authtoken.auth_type`
 - Type: `string`
 - Description:
 - *password*
- `conf.cyborg.keystone_authtoken.endpoint_type`
 - Type: `string`

- Description:
 - *internal*
- `conf.cyborg.keystone_authtoken.service_type`
 - Type: string
 - Description:
 - *accelerator*
- `conf.cyborg.keystone_authtoken.www_authenticate_uri`
 - Type: string
 - Description:
 - *nil*
- `conf.cyborg.nova.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.cyborg.oslo_messaging_rabbit.amqp_durable_queues`
 - Type: bool
 - Description:
 - *true*
- `conf.cyborg.oslo_messaging_rabbit.rabbit_ha_queues`
 - Type: bool
 - Description:
 - *true*
- `conf.cyborg.placement.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.cyborg.service_catalog.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.paste.app:api_v2.paste.app_factory`
 - Type: string
 - Description:
 - *cyborg.api.app:app_factory*

- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *cyborg.api.middleware.auth_token:AuthTokenMiddleware.factory*
- `conf.paste.filter:authtoken.acl_public_routes`
 - Type: string
 - Description:
 - */, /v2*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *cyborg*
- `conf.paste.filter:osprofiler.paste.filter_factory`
 - Type: string
 - Description:
 - *cyborg.common.profiler:WsgiMiddleware.factory*
- `conf.paste.filter:request_id.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:RequestId.factory*
- `conf.paste.pipeline:main.pipeline`
 - Type: string
 - Description:
 - *cors request_id authtoken api_v2*
- `conf.policy`
 - Type: object
 - Description:
 - *{}*
- `conf.rabbitmq.policies[0].apply-to`
 - Type: string

- Description:
 - *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`
 - Type: string
 - Description:
 - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
 - Type: string
 - Description:
 - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
 - Type: int
 - Description:
 - *70000*
- `conf.rabbitmq.policies[0].name`
 - Type: string
 - Description:
 - *ha_ttl_cyborg*
- `conf.rabbitmq.policies[0].pattern`
 - Type: string
 - Description:
 - *^(?!(amq\|reply_)).**
- `conf.rabbitmq.policies[0].priority`
 - Type: int
 - Description:
 - *0*
- `conf.rabbitmq.policies[0].vhost`
 - Type: string
 - Description:
 - *cyborg*
- `dependencies.static.agent.jobs[0]`
 - Type: string
 - Description:
 - *cyborg-db-sync*

- dependencies.static.agent.jobs[1]
 - Type: string
 - Description:
 - *cyborg-rabbit-init*
- dependencies.static.agent.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.agent.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.agent.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.agent.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.agent.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.agent.services[2].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.agent.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.agent.services[3].service
 - Type: string

- Description:
 - *placement*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *cyborg-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *cyborg-ks-user*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *cyborg-ks-endpoints*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *cyborg-ks-service*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*

- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.conductor.jobs[0]
 - Type: string
 - Description:
 - *cyborg-db-sync*
- dependencies.static.conductor.jobs[1]
 - Type: string
 - Description:
 - *cyborg-rabbit-init*
- dependencies.static.conductor.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.conductor.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.conductor.services[2].endpoint
 - Type: string

- Description:
 - *internal*
- dependencies.static.conductor.services[2].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *cyborg-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*

- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *cyborg-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- endpoints.accelerator.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.accelerator.hosts.admin
 - Type: string

- Description:
 - *cyborg*
- endpoints.accelerator.hosts.default
 - Type: string
 - Description:
 - *cyborg-api*
- endpoints.accelerator.hosts.public
 - Type: string
 - Description:
 - *cyborg*
- endpoints.accelerator.name
 - Type: string
 - Description:
 - *cyborg*
- endpoints.accelerator.path.default
 - Type: string
 - Description:
 - */v2*
- endpoints.accelerator.port.api.admin
 - Type: int
 - Description:
 - *80*
- endpoints.accelerator.port.api.default
 - Type: int
 - Description:
 - *6666*
- endpoints.accelerator.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.accelerator.scheme.default
 - Type: string
 - Description:
 - *http*

- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:
 - *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string

- Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.cyborg.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.cyborg.project_domain_name
 - Type: string
 - Description:
 - *service*

- endpoints.identity.auth.cyborg.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.cyborg.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.cyborg.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.cyborg.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.cyborg.username
 - Type: string
 - Description:
 - *cyborg*
- endpoints.identity.auth.nova.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.nova.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.nova.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.nova.region_name
 - Type: string

- Description:
 - *RegionOne*
- endpoints.identity.auth.nova.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.nova.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.nova.username
 - Type: string
 - Description:
 - *nova*
- endpoints.identity.auth.placement.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.placement.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.placement.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.placement.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.placement.role
 - Type: string
 - Description:
 - *admin*

- endpoints.identity.auth.placement.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.placement.username
 - Type: string
 - Description:
 - *placement*
- endpoints.identity.auth.test.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.project_name
 - Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.username
 - Type: string

- Description:
 - *neutron-test*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*

- endpoints.ingress.hosts.default
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.name
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.ingress.port.ingress.default
 - Type: int
 - Description:
 - *80*
- endpoints.kube_dns.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.kube_dns.hosts.default
 - Type: string
 - Description:
 - *kube-dns*
- endpoints.kube_dns.name
 - Type: string
 - Description:
 - *kubernetes-dns*
- endpoints.kube_dns.namespace
 - Type: string
 - Description:
 - *kube-system*
- endpoints.kube_dns.path.default
 - Type: string

- Description:
 - *nil*
- endpoints.kube_dns.port.dns.default
 - Type: int
 - Description:
 - 53
- endpoints.kube_dns.port.dns.protocol
 - Type: string
 - Description:
 - *UDP*
- endpoints.kube_dns.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*

- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.cyborg.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.cyborg.username
 - Type: string
 - Description:
 - *cyborg*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string

- Description:
- *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *mariadb-tls-direct*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*

- endpoints.oslo_db.auth.cyborg.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.cyborg.username
 - Type: string
 - Description:
 - *cyborg*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */cyborg*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.secret.tls.internal
 - Type: string

- Description:
 - *rabbitmq-tls-direct*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.cyborg.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.cyborg.username
 - Type: string
 - Description:
 - *cyborg*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */cyborg*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*

- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - 2
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.cyborg_agent
 - Type: string
 - Description:
 - *quay.io/airshipit/cyborg:2024.1-ubuntu_jammy*
- images.tags.cyborg_api
 - Type: string

- Description:
 - *quay.io/airshipit/cyborg:2024.1-ubuntu_jammy*
- images.tags.cyborg_conductor
 - Type: string
 - Description:
 - *quay.io/airshipit/cyborg:2024.1-ubuntu_jammy*
- images.tags.cyborg_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/cyborg:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*

- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- labels.agent.node_selector_key
 - Type: string
 - Description:
 - *openstack-compute-node*
- labels.agent.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.conductor.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.conductor.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string

- Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.certificates
 - Type: bool
 - Description:
 - *false*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.daemonset_agent
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_conductor
 - Type: bool
 - Description:
 - *true*

- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool

- Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *false*

- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *false*
- network.api.istio.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30666*
- network.api.port
 - Type: int
 - Description:
 - *6666*
- pod.affinity.anti.topologyKey.default
 - Type: string

- Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.conductor
 - Type: string
 - Description:
 - *requiredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.daemonsets.cyborg.enabled
 - Type: bool
 - Description:
 - *true*
- pod.lifecycle.upgrades.daemonsets.cyborg.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.lifecycle.upgrades.daemonsets.cyborg.min_ready_seconds
 - Type: int
 - Description:
 - *0*

- pod.lifecycle.upgrades.daemonsets.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - 1
- pod.mounts.cyborg_agent.cyborg_agent.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_agent.cyborg_agent.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_agent.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_api.cyborg_api.volumeMounts
 - Type: string

- Description:
 - *nil*
- pod.mounts.cyborg_api.cyborg_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_conductor.cyborg_conductor.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_conductor.cyborg_conductor.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_conductor.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.cyborg_db_sync.cyborg_db_sync.volumeMounts[0].mountPath
 - Type: string
 - Description:
 - */tmp/env.py*
- pod.mounts.cyborg_db_sync.cyborg_db_sync.volumeMounts[0].name
 - Type: string
 - Description:
 - *db-sync-sh*
- pod.mounts.cyborg_db_sync.cyborg_db_sync.volumeMounts[0].readOnly
 - Type: bool
 - Description:
 - *true*

- pod.mounts.cyborg_db_sync.cyborg_db_sync.volumeMounts[0].subPath
 - Type: string
 - Description:
 - *env.py*
- pod.mounts.cyborg_db_sync.cyborg_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - 3
- pod.replicas.conductor
 - Type: int
 - Description:
 - 3
- pod.resources.agent.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.agent.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.conductor.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.conductor.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *true*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string

- Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*

- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string

- Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- secrets.identity.admin
 - Type: string
 - Description:
 - *cyborg-keystone-admin*
- secrets.identity.cyborg
 - Type: string
 - Description:
 - *cyborg-keystone-user*
- secrets.identity.test
 - Type: string
 - Description:
 - *cyborg-keystone-test*
- secrets.oci_image_registry.cyborg
 - Type: string
 - Description:
 - *cyborg-oci-image-registry*

- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *cyborg-db-admin*
- secrets.oslo_db.cyborg
 - Type: string
 - Description:
 - *cyborg-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *cyborg-rabbitmq-admin*
- secrets.oslo_messaging.cyborg
 - Type: string
 - Description:
 - *cyborg-rabbitmq-user*

3.6 Designate

There are various customizations you can do to tailor the deployment of OpenStack Designate. You can find those below.

3.6.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *false*
- bootstrap.script
 - Type: string
 - Description:
 - `openstack token issue`
- conf.designate.DEFAULT.debug
 - Type: bool
 - Description:
 - *false*
- conf.designate.DEFAULT.log_config_append

- Type: string
 - Description:
 - */etc/designate/logging.conf*
- conf.designate.database.max_retries
 - Type: int
 - Description:
 - *-1*
- conf.designate.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.designate.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.designate.keystone_authtoken.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.designate.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *dns*
- conf.designate.oslo_middleware.enable_proxy_headers_parsing
 - Type: bool
 - Description:
 - *true*
- conf.designate.oslo_policy.policy_file
 - Type: string
 - Description:
 - */etc/designate/policy.yaml*
- conf.designate.service:api.auth_strategy
 - Type: string
 - Description:

- *keystone*
- `conf.designate.service:api.enable_api_admin`
 - Type: `bool`
 - Description:
 - *true*
- `conf.designate.service:api.enable_api_v2`
 - Type: `bool`
 - Description:
 - *true*
- `conf.designate.service:api.enabled_extensions_v2`
 - Type: `string`
 - Description:
 - *quotas,reports*
- `conf.designate.service:api.workers`
 - Type: `int`
 - Description:
 - *2*
- `conf.designate.service:worker.enabled`
 - Type: `bool`
 - Description:
 - *true*
- `conf.designate.service:worker.notify`
 - Type: `bool`
 - Description:
 - *false*
- `conf.designate.storage:sqlalchemy.max_retries`
 - Type: `int`
 - Description:
 - *-1*
- `conf.designate_api_uwsgi.uwsgi.add-header`
 - Type: `string`
 - Description:
 - *Connection: close*
- `conf.designate_api_uwsgi.uwsgi.buffer-size`

- Type: int
 - Description:
 - *65535*
- `conf.designate_api_uwsgi.uwsgi.die-on-term`
 - Type: bool
 - Description:
 - *true*
- `conf.designate_api_uwsgi.uwsgi.enable-threads`
 - Type: bool
 - Description:
 - *true*
- `conf.designate_api_uwsgi.uwsgi.exit-on-reload`
 - Type: bool
 - Description:
 - *false*
- `conf.designate_api_uwsgi.uwsgi.hook-master-start`
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- `conf.designate_api_uwsgi.uwsgi.lazy-apps`
 - Type: bool
 - Description:
 - *true*
- `conf.designate_api_uwsgi.uwsgi.log-x-forwarded-for`
 - Type: bool
 - Description:
 - *true*
- `conf.designate_api_uwsgi.uwsgi.master`
 - Type: bool
 - Description:
 - *true*
- `conf.designate_api_uwsgi.uwsgi.procname-prefix-spaced`
 - Type: string
 - Description:

- *designate-api*:
- `conf.designate_api_uwsgi.uwsgi.route-user-agent`
 - Type: string
 - Description:
 - *^kube-probe.* donotlog*:
- `conf.designate_api_uwsgi.uwsgi.thunder-lock`
 - Type: bool
 - Description:
 - *true*
- `conf.designate_api_uwsgi.uwsgi.worker-reload-mercy`
 - Type: int
 - Description:
 - *80*
- `conf.designate_api_uwsgi.uwsgi.wsgi-file`
 - Type: string
 - Description:
 - */var/lib/openstack/bin/designate-api-wsgi*
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.logging.formatters.keys[0]`

- Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - `()`
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:

- (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`

- Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_designate.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_designate.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_designate.qualname`
 - Type: string
 - Description:

- *designate*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*
- `conf.logging.loggers.keys[0]`

- Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *designate*
- `conf.paste.app:osapi_dns_app_admin.paste.app_factory`
 - Type: string
 - Description:
 - *designate.api.admin:factory*
- `conf.paste.app:osapi_dns_app_v2.paste.app_factory`
 - Type: string
 - Description:
 - *designate.api.v2:factory*
- `conf.paste.app:osapi_dns_app_versions.paste.app_factory`
 - Type: string
 - Description:
 - *designate.api.versions:factory*
- `conf.paste.composite:osapi_dns./`
 - Type: string
 - Description:
 - *osapi_dns_versions*
- `conf.paste.composite:osapi_dns./admin`
 - Type: string
 - Description:
 - *osapi_dns_admin*
- `conf.paste.composite:osapi_dns./v2`
 - Type: string
 - Description:
 - *osapi_dns_v2*
- `conf.paste.composite:osapi_dns.use`
 - Type: string
 - Description:

- *egg:Paste#urlmap*
- `conf.paste.composite:osapi_dns_admin.keystone`
 - Type: string
 - Description:
 - *http_proxy_to_wsgi cors request_id faultwrapper authtoken keystonecontext maintenance normalizeuri osapi_dns_app_admin*
- `conf.paste.composite:osapi_dns_admin.noauth`
 - Type: string
 - Description:
 - *http_proxy_to_wsgi cors request_id faultwrapper noauthcontext maintenance normalizeuri osapi_dns_app_admin*
- `conf.paste.composite:osapi_dns_admin.use`
 - Type: string
 - Description:
 - *call:designate.api.middleware:auth_pipeline_factory*
- `conf.paste.composite:osapi_dns_v2.keystone`
 - Type: string
 - Description:
 - *http_proxy_to_wsgi cors request_id faultwrapper validation_API_v2 authtoken keystonecontext maintenance normalizeuri osapi_dns_app_v2*
- `conf.paste.composite:osapi_dns_v2.noauth`
 - Type: string
 - Description:
 - *http_proxy_to_wsgi cors request_id faultwrapper validation_API_v2 noauthcontext maintenance normalizeuri osapi_dns_app_v2*
- `conf.paste.composite:osapi_dns_v2.use`
 - Type: string
 - Description:
 - *call:designate.api.middleware:auth_pipeline_factory*
- `conf.paste.composite:osapi_dns_versions.keystone`
 - Type: string
 - Description:
 - *http_proxy_to_wsgi cors maintenance faultwrapper osapi_dns_app_versions*
- `conf.paste.composite:osapi_dns_versions.noauth`
 - Type: string
 - Description:

- *http_proxy_to_wsgi cors maintenance faultwrapper osapi_dns_app_versions*
- `conf.paste.composite:osapi_dns_versions.use`
 - Type: string
 - Description:
 - *call:designate.api.middleware:auth_pipeline_factory*
- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *designate*
- `conf.paste.filter:faultwrapper.paste.filter_factory`
 - Type: string
 - Description:
 - *designate.api.middleware:FaultWrapperMiddleware.factory*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:HTTPProxyToWSGI.factory*
- `conf.paste.filter:keystonecontext.paste.filter_factory`
 - Type: string
 - Description:
 - *designate.api.middleware:KeystoneContextMiddleware.factory*
- `conf.paste.filter:maintenance.paste.filter_factory`
 - Type: string
 - Description:
 - *designate.api.middleware:MaintenanceMiddleware.factory*
- `conf.paste.filter:noauthcontext.paste.filter_factory`

- Type: string
- Description:
 - *designate.api.middleware:NoAuthContextMiddleware.factory*
- conf.paste.filter:normalizeuri.paste.filter_factory
 - Type: string
 - Description:
 - *designate.api.middleware:NormalizeURIMiddleware.factory*
- conf.paste.filter:request_id.paste.filter_factory
 - Type: string
 - Description:
 - *oslo.middleware:RequestId.factory*
- conf.paste.filter:validation_API_v2.paste.filter_factory
 - Type: string
 - Description:
 - *designate.api.middleware:APIv2ValidationErrorMiddleware.factory*
- conf.policy
 - Type: object
 - Description:
 - {}
- conf.pools
 - Type: string
 - Description:

```

- - name: default
  # The name is immutable. There will be no option to change the
  ↪name after
  # creation and the only way will to change it will be to delete it
  # (and all zones associated with it) and recreate it.
  description: Default Pool

  attributes: {}

  # List out the NS records for zones hosted within this pool
  # This should be a record that is created outside of designate,
  ↪that
  # points to the public IP of the controller node.
  ns_records:
    - hostname: {{ printf "ns.%s.svc.%s.\" .Release.Namespace .
  ↪Values.endpoints.cluster_domain_suffix }}
      priority: 1
  
```

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```

# List out the nameservers for this pool. These are the actual DNS
↪servers.
# We use these to verify changes have propagated to all
↪nameservers.
nameservers:
  - host: ${POWERDNS_SERVICE_HOST}
    port: {{ tuple "powerdns" "internal" "powerdns" . |
↪include "helm-toolkit.endpoints.endpoint_port_lookup" }}

# List out the targets for this pool. For BIND there will be one
# entry for each BIND server, as we have to run rndc command on
↪each server
targets:
  - type: pdns4
    description: PowerDNS Server

# List out the designate-mdns servers from which PowerDNS
↪servers should
# request zone transfers (AXFRs) from.
# This should be the IP of the controller node.
# If you have multiple controllers you can add multiple masters
# by running designate-mdns on them, and adding them here.
masters:
  - host: ${MINIDNS_SERVICE_HOST}
    port: {{ tuple "mdns" "internal" "ipc" . | include \
↪"helm-toolkit.endpoints.endpoint_port_lookup" }}

# PowerDNS Configuration options
options:
  host: ${POWERDNS_SERVICE_HOST}
  port: {{ tuple "powerdns" "internal" "powerdns" . |
↪include "helm-toolkit.endpoints.endpoint_port_lookup" }}
  api_endpoint: http://${POWERDNS_SERVICE_HOST}:{{ tuple \
↪"powerdns" "internal" "powerdns_api" . | include "helm-
↪toolkit.endpoints.endpoint_port_lookup" }}
  api_token: {{ tuple "powerdns" "service" . | include \
↪"helm-toolkit.endpoints.endpoint_token_lookup" }}

```

- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *designate-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*

- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.dynamic.job_rabbit_init.api.jobs[0]
 - Type: string
 - Description:
 - *designate-rabbit-init*
- dependencies.dynamic.job_rabbit_init.central.jobs[0]
 - Type: string
 - Description:
 - *designate-rabbit-init*
- dependencies.dynamic.job_rabbit_init.sink.jobs[0]
 - Type: string
 - Description:
 - *designate-rabbit-init*
- dependencies.dynamic.job_rabbit_init.worker.jobs[0]
 - Type: string
 - Description:
 - *designate-rabbit-init*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *designate-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *designate-ks-user*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *designate-ks-endpoints*
- dependencies.static.api.service[0].endpoint
 - Type: string

- Description:
- *internal*
- dependencies.static.api.service[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.service[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.service[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.api.service[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.service[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.central.jobs[0]
 - Type: string
 - Description:
 - *designate-db-sync*
- dependencies.static.central.jobs[1]
 - Type: string
 - Description:
 - *designate-ks-user*
- dependencies.static.central.jobs[2]
 - Type: string
 - Description:
 - *designate-ks-endpoints*

- dependencies.static.central.service[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.service[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.central.service[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.service[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.central.service[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.central.service[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string

- Description:
- *designate-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *designate-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*

- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.mdns.jobs[0]
 - Type: string
 - Description:
 - *designate-db-sync*
- dependencies.static.mdns.jobs[1]
 - Type: string
 - Description:
 - *designate-ks-user*
- dependencies.static.mdns.jobs[2]
 - Type: string
 - Description:
 - *designate-ks-endpoints*
- dependencies.static.mdns.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.mdns.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.mdns.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.mdns.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.producer.jobs[0]
 - Type: string

- Description:
- *designate-db-sync*
- dependencies.static.producer.jobs[1]
 - Type: string
 - Description:
 - *designate-ks-user*
- dependencies.static.producer.jobs[2]
 - Type: string
 - Description:
 - *designate-ks-endpoints*
- dependencies.static.producer.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.producer.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.producer.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.producer.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*

- dependencies.static.sink.jobs[0]
 - Type: string
 - Description:
 - *designate-db-sync*
- dependencies.static.sink.jobs[1]
 - Type: string
 - Description:
 - *designate-ks-user*
- dependencies.static.sink.jobs[2]
 - Type: string
 - Description:
 - *designate-ks-endpoints*
- dependencies.static.sink.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.sink.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.sink.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.sink.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.worker.jobs[0]
 - Type: string
 - Description:
 - *designate-db-sync*
- dependencies.static.worker.jobs[1]
 - Type: string

- Description:
 - *designate-ks-user*
- dependencies.static.worker.jobs[2]
 - Type: string
 - Description:
 - *designate-ks-endpoints*
- dependencies.static.worker.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.worker.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.worker.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[2].service
 - Type: string
 - Description:
 - *mdns*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*

- endpoints.dns.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.dns.hosts.default
 - Type: string
 - Description:
 - *designate-api*
- endpoints.dns.hosts.public
 - Type: string
 - Description:
 - *designate*
- endpoints.dns.name
 - Type: string
 - Description:
 - *designate*
- endpoints.dns.path.default
 - Type: string
 - Description:
 - */*
- endpoints.dns.port.api.default
 - Type: int
 - Description:
 - *9001*
- endpoints.dns.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.dns.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string

- Description:
- *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.designate.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.designate.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.designate.project_name
 - Type: string
 - Description:
 - *service*

- endpoints.identity.auth.designate.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.designate.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.designate.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.designate.username
 - Type: string
 - Description:
 - *designate*
- endpoints.identity.auth.test.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.project_name
 - Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string

- Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.username
 - Type: string
 - Description:
 - *designate-test*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*

- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int

- Description:
 - *5000*
- endpoints.mdns.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.mdns.hosts.default
 - Type: string
 - Description:
 - *minidns*
- endpoints.mdns.hosts.public
 - Type: string
 - Description:
 - *designate-mdns*
- endpoints.mdns.name
 - Type: string
 - Description:
 - *minidns*
- endpoints.mdns.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.mdns.port.ipc.default
 - Type: int
 - Description:
 - *5354*
- endpoints.mdns.scheme.default
 - Type: string
 - Description:
 - *tcp*
- endpoints.oci_image_registry.auth.designate.password
 - Type: string
 - Description:
 - *password*

- endpoints.oci_image_registry.auth.designate.username
 - Type: string
 - Description:
 - *designate*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string

- Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.designate.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.designate.username
 - Type: string
 - Description:
 - *designate*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*

- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */designate*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.designate.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.designate.username
 - Type: string
 - Description:
 - *designate*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string

- Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */designate*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- endpoints.powerdns.auth.service.token
 - Type: string
 - Description:
 - *chiave_segreta*
- endpoints.powerdns.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*

- endpoints.powerdns.hosts.default
 - Type: string
 - Description:
 - *powerdns*
- endpoints.powerdns.port.powerdns.default
 - Type: int
 - Description:
 - *53*
- endpoints.powerdns.port.powerdns_api.default
 - Type: int
 - Description:
 - *8081*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string

- Description:
- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entriypoint:latest-ubuntu_focal*
- images.tags.designate_api
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*
- images.tags.designate_central
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*
- images.tags.designate_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*
- images.tags.designate_mdns
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*
- images.tags.designate_producer
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*
- images.tags.designate_sink
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*

- images.tags.designate_worker
 - Type: string
 - Description:
 - *quay.io/airshipit/designate:2024.1-ubuntu_jammy*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.central.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.central.node_selector_value
 - Type: string

- Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.mdns.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.mdns.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.producer.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.producer.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.sink.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.sink.node_selector_value
 - Type: string
 - Description:
 - *enabled*

- labels.worker.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.worker.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_central
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_mdns
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_producer
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_sink
 - Type: bool

- Description:
 - *false*
- manifests.deployment_worker
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*

- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.pdb_central
 - Type: bool
 - Description:
 - *true*
- manifests.pdb_mdns
 - Type: bool
 - Description:
 - *true*
- manifests.pdb_producer
 - Type: bool
 - Description:
 - *true*
- manifests.pdb_sink
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_worker
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls
 - Type: bool

- Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_mdns
 - Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /

- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *9001*
- network.mdns.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.mdns.name
 - Type: string
 - Description:
 - *designate-mdns*
- network.mdns.node_port.enabled
 - Type: bool
 - Description:
 - *true*
- network.mdns.node_port.port
 - Type: int

- Description:
 - 5354
- network.mdns.proto
 - Type: string
 - Description:
 - *http*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - 0
- pod.lifecycle.disruption_budget.central.min_available
 - Type: int
 - Description:
 - 0
- pod.lifecycle.disruption_budget.mdns.min_available
 - Type: int
 - Description:
 - 0
- pod.lifecycle.disruption_budget.producer.min_available
 - Type: int
 - Description:
 - 0
- pod.lifecycle.disruption_budget.sink.min_available
 - Type: int
 - Description:
 - 0

- pod.lifecycle.disruption_budget.worker.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.termination_grace_period.mdns.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.designate_api.designate_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_api.designate_api.volumes
 - Type: string

- Description:
 - *nil*
- pod.mounts.designate_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_central.designate_central.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_central.designate_central.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_central.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_db_sync.designate_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_db_sync.designate_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_mdns.designate_mdns.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_mdns.designate_mdns.volumes
 - Type: string
 - Description:
 - *nil*

- pod.mounts.designate_mdns.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_producer.designate_producer.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_producer.designate_producer.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_producer.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_sink.designate_sink.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_sink.designate_sink.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_sink.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_worker.designate_worker.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.designate_worker.designate_worker.volumes
 - Type: string

- Description:
 - *nil*
- pod.mounts.designate_worker.init_container
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.central
 - Type: int
 - Description:
 - *1*
- pod.replicas.mdns
 - Type: int
 - Description:
 - *1*
- pod.replicas.producer
 - Type: int
 - Description:
 - *1*
- pod.replicas.sink
 - Type: int
 - Description:
 - *1*
- pod.replicas.worker
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*

- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string

- Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*

- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *designate-keystone-admin*
- secrets.identity.designate
 - Type: string
 - Description:
 - *designate-keystone-user*
- secrets.identity.test
 - Type: string
 - Description:
 - *designate-keystone-test*
- secrets.oci_image_registry.designate
 - Type: string
 - Description:
 - *designate-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *designate-db-admin*
- secrets.oslo_db.designate
 - Type: string

- Description:
 - *designate-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *designate-rabbitmq-admin*
- secrets.oslo_messaging.designate
 - Type: string
 - Description:
 - *designate-rabbitmq-user*
- secrets.tls.dns.api.public
 - Type: string
 - Description:
 - *designate-tls-public*

3.7 Glance

There are various customizations you can do to tailor the deployment of OpenStack Glance. You can find those below.

3.7.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *true*
- bootstrap.ks_user
 - Type: string
 - Description:
 - *admin*
- bootstrap.script
 - Type: string
 - Description:
 - *nil*
- bootstrap.structured.images.cirros.container_format
 - Type: string
 - Description:

- *bare*
- bootstrap.structured.images.cirros.id
 - Type: string
 - Description:
 - *nil*
- bootstrap.structured.images.cirros.image_file
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- bootstrap.structured.images.cirros.image_type
 - Type: string
 - Description:
 - *qcow2*
- bootstrap.structured.images.cirros.min_disk
 - Type: int
 - Description:
 - *1*
- bootstrap.structured.images.cirros.name
 - Type: string
 - Description:
 - *Cirros 0.6.2 64-bit*
- bootstrap.structured.images.cirros.private
 - Type: bool
 - Description:
 - *true*
- bootstrap.structured.images.cirros.properties.os_distro
 - Type: string
 - Description:
 - *cirros*
- bootstrap.structured.images.cirros.source_url
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/*
- ceph_client.configmap

- Type: string
 - Description:
 - *ceph-etc*
- `ceph_client.user_secret_name`
 - Type: string
 - Description:
 - *pvc-ceph-client-key*
- `conf.api_audit_map.DEFAULT.target_endpoint_type`
 - Type: string
 - Description:
 - *None*
- `conf.api_audit_map.path_keywords.detail`
 - Type: string
 - Description:
 - *None*
- `conf.api_audit_map.path_keywords.file`
 - Type: string
 - Description:
 - *None*
- `conf.api_audit_map.path_keywords.images`
 - Type: string
 - Description:
 - *image*
- `conf.api_audit_map.path_keywords.members`
 - Type: string
 - Description:
 - *member*
- `conf.api_audit_map.path_keywords.tags`
 - Type: string
 - Description:
 - *tag*
- `conf.api_audit_map.service_endpoints.image`
 - Type: string
 - Description:

- *service/storage/image*
- `conf.ceph.admin_keyring`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph.append`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph.monitors`
 - Type: list
 - Description:
 - *[]*
- `conf.ceph.override`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph_client.append`
 - Type: string
 - Description:
 - *nil*
- `conf.ceph_client.override`
 - Type: string
 - Description:
 - *nil*
- `conf.glance.DEFAULT.bind_port`
 - Type: string
 - Description:
 - *nil*
- `conf.glance.DEFAULT.enable_v1_api`
 - Type: bool
 - Description:
 - *false*
- `conf.glance.DEFAULT.log_config_append`

- Type: string
 - Description:
 - */etc/glance/logging.conf*
- conf.glance.DEFAULT.workers
 - Type: int
 - Description:
 - *1*
- conf.glance.cors
 - Type: object
 - Description:
 - *{}*
- conf.glance.database.max_retries
 - Type: int
 - Description:
 - *-1*
- conf.glance.file.filesystem_store_datadir
 - Type: string
 - Description:
 - */var/lib/glance/images*
- conf.glance.glance_store.cinder_catalog_info
 - Type: string
 - Description:
 - *volume3::internalURL*
- conf.glance.glance_store.default_swift_reference
 - Type: string
 - Description:
 - *ref1*
- conf.glance.glance_store.filesystem_store_datadir
 - Type: string
 - Description:
 - */var/lib/glance/images*
- conf.glance.glance_store.rbd_store_ceph_conf
 - Type: string
 - Description:

- */etc/ceph/ceph.conf*
- `conf.glance.glance_store.rbd_store_chunk_size`
 - Type: int
 - Description:
 - 8
- `conf.glance.glance_store.rbd_store_crush_rule`
 - Type: string
 - Description:
 - *replicated_rule*
- `conf.glance.glance_store.rbd_store_pool`
 - Type: string
 - Description:
 - *glance.images*
- `conf.glance.glance_store.rbd_store_replication`
 - Type: int
 - Description:
 - 3
- `conf.glance.glance_store.rbd_store_user`
 - Type: string
 - Description:
 - *glance*
- `conf.glance.glance_store.swift_store_config_file`
 - Type: string
 - Description:
 - */etc/glance/swift-store.conf*
- `conf.glance.glance_store.swift_store_container`
 - Type: string
 - Description:
 - *glance*
- `conf.glance.glance_store.swift_store_create_container_on_put`
 - Type: bool
 - Description:
 - *true*
- `conf.glance.glance_store.swift_store_endpoint_type`

- Type: string
 - Description:
 - *internalURL*
- conf.glance.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.glance.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.glance.keystone_authtoken.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.glance.keystone_authtoken.service_token_roles
 - Type: string
 - Description:
 - *service*
- conf.glance.keystone_authtoken.service_token_roles_required
 - Type: bool
 - Description:
 - *true*
- conf.glance.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *image*
- conf.glance.os_glance_staging_store.filesystem_store_datadir
 - Type: string
 - Description:
 - */var/lib/glance/tmp/os_glance_staging_store*
- conf.glance.os_glance_tasks_store.filesystem_store_datadir
 - Type: string
 - Description:

- */var/lib/glance/tmp/os_glance_tasks_store*
- `conf.glance.oslo_concurrency.lock_path`
 - Type: string
 - Description:
 - */var/lib/glance/tmp*
- `conf.glance.oslo_messaging_notifications.driver`
 - Type: string
 - Description:
 - *messagingv2*
- `conf.glance.oslo_messaging_rabbit.rabbit_ha_queues`
 - Type: bool
 - Description:
 - *true*
- `conf.glance.oslo_middleware.enable_proxy_headers_parsing`
 - Type: bool
 - Description:
 - *true*
- `conf.glance.oslo_policy.policy_file`
 - Type: string
 - Description:
 - */etc/glance/policy.yaml*
- `conf.glance.paste_deploy.flavor`
 - Type: string
 - Description:
 - *keystone*
- `conf.glance.rbd.rbd_store_ceph_conf`
 - Type: string
 - Description:
 - */etc/ceph/ceph.conf*
- `conf.glance.rbd.rbd_store_chunk_size`
 - Type: int
 - Description:
 - *8*
- `conf.glance.rbd.rbd_store_crush_rule`

- Type: string
 - Description:
 - *replicated_rule*
- `conf.glance.rbd.rbd_store_pool`
 - Type: string
 - Description:
 - *glance.images*
- `conf.glance.rbd.rbd_store_replication`
 - Type: int
 - Description:
 - *3*
- `conf.glance.rbd.rbd_store_user`
 - Type: string
 - Description:
 - *glance*
- `conf.glance.swift.default_swift_reference`
 - Type: string
 - Description:
 - *ref1*
- `conf.glance.swift.swift_store_config_file`
 - Type: string
 - Description:
 - */etc/glance/swift-store.conf*
- `conf.glance.swift.swift_store_container`
 - Type: string
 - Description:
 - *glance*
- `conf.glance.swift.swift_store_create_container_on_put`
 - Type: bool
 - Description:
 - *true*
- `conf.glance.swift.swift_store_endpoint_type`
 - Type: string
 - Description:

- *internalURL*
- `conf.glance_api_uwsgi.uwsgi.add-header`
 - Type: string
 - Description:
 - *Connection: close*
- `conf.glance_api_uwsgi.uwsgi.buffer-size`
 - Type: int
 - Description:
 - *65535*
- `conf.glance_api_uwsgi.uwsgi.die-on-term`
 - Type: bool
 - Description:
 - *true*
- `conf.glance_api_uwsgi.uwsgi.enable-threads`
 - Type: bool
 - Description:
 - *true*
- `conf.glance_api_uwsgi.uwsgi.exit-on-reload`
 - Type: bool
 - Description:
 - *false*
- `conf.glance_api_uwsgi.uwsgi.hook-master-start`
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- `conf.glance_api_uwsgi.uwsgi.lazy-apps`
 - Type: bool
 - Description:
 - *true*
- `conf.glance_api_uwsgi.uwsgi.log-x-forwarded-for`
 - Type: bool
 - Description:
 - *true*
- `conf.glance_api_uwsgi.uwsgi.master`

- Type: bool
- Description:
- *true*
- conf.glance_api_uwsgi.uwsgi.procname-prefix-spaced
 - Type: string
 - Description:
 - *glance-api:*
- conf.glance_api_uwsgi.uwsgi.route-user-agent
 - Type: string
 - Description:
 - *^kube-probe.* donotlog:*
- conf.glance_api_uwsgi.uwsgi.thunder-lock
 - Type: bool
 - Description:
 - *true*
- conf.glance_api_uwsgi.uwsgi.worker-reload-mercy
 - Type: int
 - Description:
 - *80*
- conf.glance_api_uwsgi.uwsgi.wsgi-file
 - Type: string
 - Description:
 - */var/lib/openstack/bin/glance-wsgi-api*
- conf.glance_sudoers
 - Type: string
 - Description:
 - ```
This sudoers file supports rootwrap for both Kolla and LOCI Images.
Defaults !requiretty
Defaults secure_path=\"/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/
↪bin:/sbin:/bin:/snap/bin:/var/lib/openstack/bin:/var/lib/kolla/
↪venv/bin\"
glance ALL = (root) NOPASSWD: /var/lib/kolla/venv/bin/glance-
↪rootwrap /etc/glance/rootwrap.conf *, /var/lib/openstack/bin/
↪glance-rootwrap /etc/glance/rootwrap.conf *
```
- conf.logging.formatter\_context.class
  - Type: string

- Description:
  - *oslo\_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
  - Type: string
  - Description:
  - *%(message)s*
- `conf.logging.formatters.keys[0]`
  - Type: string
  - Description:
  - *context*
- `conf.logging.formatters.keys[1]`
  - Type: string
  - Description:
  - *default*
- `conf.logging.handler_null.args`
  - Type: string
  - Description:
  - *()*
- `conf.logging.handler_null.class`
  - Type: string
  - Description:
  - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
  - Type: string
  - Description:
  - *default*

- `conf.logging.handler_stderr.args`
  - Type: string
  - Description:
    - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
  - Type: string
  - Description:
    - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
  - Type: string
  - Description:
    - *context*
- `conf.logging.handler_stdout.args`
  - Type: string
  - Description:
    - *(sys.stdout,)*
- `conf.logging.handler_stdout.class`
  - Type: string
  - Description:
    - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
  - Type: string
  - Description:
    - *context*
- `conf.logging.handlers.keys[0]`
  - Type: string
  - Description:
    - *stdout*
- `conf.logging.handlers.keys[1]`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.handlers.keys[2]`
  - Type: string

- Description:
  - *null*
- `conf.logging.logger_amqp.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqp.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_amqp.qualname`
  - Type: string
  - Description:
  - *amqp*
- `conf.logging.logger_amqplib.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqplib.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_amqplib.qualname`
  - Type: string
  - Description:
  - *amqplib*
- `conf.logging.logger_boto.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_boto.level`
  - Type: string
  - Description:
  - *WARNING*



- `conf.logging.logger_boto.qualname`
  - Type: string
  - Description:
    - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_eventletwsgi.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
  - Type: string
  - Description:
    - *eventlet.wsgi.server*
- `conf.logging.logger_glance.handlers[0]`
  - Type: string
  - Description:
    - *stdout*
- `conf.logging.logger_glance.level`
  - Type: string
  - Description:
    - *INFO*
- `conf.logging.logger_glance.qualname`
  - Type: string
  - Description:
    - *glance*
- `conf.logging.logger_root.handlers`
  - Type: string
  - Description:
    - *null*
- `conf.logging.logger_root.level`
  - Type: string

- Description:
  - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_sqlalchemy.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
  - Type: string
  - Description:
  - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
  - Type: string
  - Description:
  - *root*
- `conf.logging.loggers.keys[1]`
  - Type: string
  - Description:
  - *glance*
- `conf.paste.app:apiv1app.paste.app_factory`
  - Type: string
  - Description:
  - *glance.api.v1.router:API.factory*
- `conf.paste.app:apiv2app.paste.app_factory`
  - Type: string
  - Description:
  - *glance.api.v2.router:API.factory*
- `conf.paste.app:apiversions.paste.app_factory`
  - Type: string
  - Description:
  - *glance.api.versions:create\_resource*

- `conf.paste.composite:rootapp.paste.composite_factory`
  - Type: string
  - Description:
    - *glance.api:root\_app\_factory*
- `conf.paste.composite:rootapp./`
  - Type: string
  - Description:
    - *apiversions*
- `conf.paste.composite:rootapp./v1`
  - Type: string
  - Description:
    - *apiv1app*
- `conf.paste.composite:rootapp./v2`
  - Type: string
  - Description:
    - *apiv2app*
- `conf.paste.filter:audit.paste.filter_factory`
  - Type: string
  - Description:
    - *keystonemiddleware.audit:filter\_factory*
- `conf.paste.filter:audit.audit_map_file`
  - Type: string
  - Description:
    - */etc/glance/api\_audit\_map.conf*
- `conf.paste.filter:authtoken.paste.filter_factory`
  - Type: string
  - Description:
    - *keystonemiddleware.auth\_token:filter\_factory*
- `conf.paste.filter:authtoken.delay_auth_decision`
  - Type: bool
  - Description:
    - *true*
- `conf.paste.filter:cache.paste.filter_factory`
  - Type: string

- Description:
  - *glance.api.middleware.cache:CacheFilter.factory*
- `conf.paste.filter:cachemanage.paste.filter_factory`
  - Type: string
  - Description:
  - *glance.api.middleware.cache\_manage:CacheManageFilter.factory*
- `conf.paste.filter:context.paste.filter_factory`
  - Type: string
  - Description:
  - *glance.api.middleware.context:ContextMiddleware.factory*
- `conf.paste.filter:cors.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware.cors:filter\_factory*
- `conf.paste.filter:cors.oslo_config_program`
  - Type: string
  - Description:
  - *glance-api*
- `conf.paste.filter:cors.oslo_config_project`
  - Type: string
  - Description:
  - *glance*
- `conf.paste.filter:gzip.paste.filter_factory`
  - Type: string
  - Description:
  - *glance.api.middleware.gzip:GzipMiddleware.factory*
- `conf.paste.filter:healthcheck.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware:Healthcheck.factory*
- `conf.paste.filter:healthcheck.backends`
  - Type: string
  - Description:
  - *disable\_by\_file*

- `conf.paste.filter:healthcheck.disable_by_file_path`
  - Type: string
  - Description:
    - `/etc/glance/healthcheck_disable`
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
  - Type: string
  - Description:
    - `oslo_middleware:HTTPProxyToWSGI.factory`
- `conf.paste.filter:osprofiler.paste.filter_factory`
  - Type: string
  - Description:
    - `osprofiler.web:WsgiMiddleware.factory`
- `conf.paste.filter:osprofiler.enabled`
  - Type: string
  - Description:
    - `yes`
- `conf.paste.filter:osprofiler.hmac_keys`
  - Type: string
  - Description:
    - `SECRET_KEY`
- `conf.paste.filter:unauthenticated-context.paste.filter_factory`
  - Type: string
  - Description:
    - `glance.api.middleware.context:UnauthenticatedContextMiddleware.factory`
- `conf.paste.filter:versionnegotiation.paste.filter_factory`
  - Type: string
  - Description:
    - `glance.api.middleware.version_negotiation:VersionNegotiationFilter.factory`
- `conf.paste.pipeline:glance-api-cachemanagement.pipeline`
  - Type: string
  - Description:
    - `cors healthcheck http_proxy_to_wsgi versionnegotiation osprofiler unauthenticated-context cache cachemanage rootapp`
- `conf.paste.pipeline:glance-api-caching.pipeline`
  - Type: string

- Description:
- *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler unauthenticated-context cache rootapp*
- `conf.paste.pipeline:glance-api-keystone+cachemanagement.pipeline`
  - Type: string
  - Description:
  - *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler authtoken audit context cache cachemanage rootapp*
- `conf.paste.pipeline:glance-api-keystone+caching.pipeline`
  - Type: string
  - Description:
  - *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler authtoken audit context cache rootapp*
- `conf.paste.pipeline:glance-api-keystone.pipeline`
  - Type: string
  - Description:
  - *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler authtoken audit context rootapp*
- `conf.paste.pipeline:glance-api-trusted-auth+cachemanagement.pipeline`
  - Type: string
  - Description:
  - *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler context cache cachemanage rootapp*
- `conf.paste.pipeline:glance-api-trusted-auth.pipeline`
  - Type: string
  - Description:
  - *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler context rootapp*
- `conf.paste.pipeline:glance-api.pipeline`
  - Type: string
  - Description:
  - *cors healthcheck http\_proxy\_to\_wsgi versionnegotiation osprofiler unauthenticated-context rootapp*
- `conf.policy`
  - Type: object
  - Description:
  - `{}`

- `conf.rabbitmq.policies[0].apply-to`
  - Type: string
  - Description:
  - *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`
  - Type: string
  - Description:
  - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
  - Type: string
  - Description:
  - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
  - Type: int
  - Description:
  - *70000*
- `conf.rabbitmq.policies[0].name`
  - Type: string
  - Description:
  - *ha\_ttl\_glance*
- `conf.rabbitmq.policies[0].pattern`
  - Type: string
  - Description:
  - *^(?!(amq\|reply\_)).\**
- `conf.rabbitmq.policies[0].priority`
  - Type: int
  - Description:
  - *0*
- `conf.rabbitmq.policies[0].vhost`
  - Type: string
  - Description:
  - *glance*
- `conf.rally_tests.run_tempest`
  - Type: bool

- Description:
  - *false*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].args.container_format`
  - Type: string
  - Description:
  - *bare*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].args.disk_format`
  - Type: string
  - Description:
  - *qcow2*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].args.image_location`
  - Type: string
  - Description:
  - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86\_64-disk.img*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.GlanceImages.create_and_delete_image[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].args.container_format`
  - Type: string
  - Description:
  - *bare*



- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].args.disk_format`
  - Type: string
  - Description:
  - *qcow2*
- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].args.image_location`
  - Type: string
  - Description:
  - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86\_64-disk.img*
- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.GlanceImages.create_and_list_image[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rootwrap`
  - Type: string
  - Description:

```

- # Configuration for glance-rootwrap
 # This file should be owned by (and only-writable by) the root user

 [DEFAULT]
 # List of directories to load filter definitions from (separated by ',
 ↪').
 # These directories MUST all be only writeable by root !
 filters_path=/etc/glance/rootwrap.d,/usr/share/glance/rootwrap

 # List of directories to search executables in, in case filters do_

```

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```

↪not
explicitly specify a full path (separated by ',')
If not specified, defaults to system PATH environment variable.
These directories MUST all be only writeable by root !
exec_dirs=/sbin,/usr/sbin,/bin,/usr/bin,/usr/local/bin,/usr/local/
↪sbin,/var/lib/openstack/bin,/var/lib/kolla/venv/bin

Enable logging to syslog
Default value is False
use_syslog=False

Which syslog facility to use.
Valid values include auth, authpriv, syslog, local0, local1...
Default value is 'syslog'
syslog_log_facility=syslog

Which messages to log.
INFO means log all usage
ERROR means only log unsuccessful attempts
syslog_log_level=ERROR

```

- conf.rootwrap\_filters.glance\_cinder\_store.content

- Type: string

- Description:

```

- # glance-rootwrap command filters for glance cinder store
This file should be owned by (and only-writable by) the root user

[Filters]
cinder store driver
disk_chown: RegExpFilter, chown, root, chown, \\d+, /dev/(?!\.*/\.\.\\.
↪).*

os-brick library commands
os_brick.privileged.run_as_root oslo.privsep context
This line ties the superuser privs with the config files, context_
↪name,
and (implicitly) the actual python code invoked.
privsep-rootwrap: RegExpFilter, privsep-helper, root, privsep-helper,
↪ --config-file, /etc/(?!\.\.\\.)*, --privsep_context, os_brick.
↪privileged.default, --privsep_sock_path, /tmp/*.

chown: CommandFilter, chown, root
mount: CommandFilter, mount, root
umount: CommandFilter, umount, root

```

- conf.rootwrap\_filters.glance\_cinder\_store.pods[0]

- Type: string

- Description:
- *api*
- conf.software.rbd.rbd\_store\_pool\_app\_name
  - Type: string
  - Description:
  - *glance-image*
- conf.swift\_store
  - Type: string
  - Description:

```

- [{{ .Values.conf.glance.store.default_swift_reference }}
 {{- if eq .Values.storage \"radosgw\" }}
 auth_version = 1
 auth_address = {{ tuple \"ceph_object_store\" \"public\" \"api\" . |
 ↪include \"helm-toolkit.endpoints.keystone_endpoint_uri_lookup\" }}
 user = {{ .Values.endpoints.ceph_object_store.auth.glance.username }}
 ↪:swift
 key = {{ .Values.endpoints.ceph_object_store.auth.glance.password }}
 {{- else }}
 user = {{ .Values.endpoints.identity.auth.glance.project_name }}:{{ .
 ↪Values.endpoints.identity.auth.glance.username }}
 key = {{ .Values.endpoints.identity.auth.glance.password }}
 auth_address = {{ tuple \"identity\" \"internal\" \"api\" . |
 ↪include \"helm-toolkit.endpoints.keystone_endpoint_uri_lookup\" }}
 user_domain_name = {{ .Values.endpoints.identity.auth.glance.user_
 ↪domain_name }}
 project_domain_name = {{ .Values.endpoints.identity.auth.glance.
 ↪project_domain_name }}
 auth_version = 3
 # NOTE(portdirect): https://bugs.launchpad.net/glance-store/+bug/
 ↪1620999
 project_domain_id =
 user_domain_id =
 {{- end -}}

```

- dependencies.dynamic.common.local\_image\_registry.jobs[0]
  - Type: string
  - Description:
  - *glance-image-repo-sync*
- dependencies.dynamic.common.local\_image\_registry.services[0].endpoint
  - Type: string
  - Description:
  - *node*

- dependencies.dynamic.common.local\_image\_registry.services[0].service
  - Type: string
  - Description:
    - *local\_image\_registry*
- dependencies.static.api.jobs[0]
  - Type: string
  - Description:
    - *glance-storage-init*
- dependencies.static.api.jobs[1]
  - Type: string
  - Description:
    - *glance-db-sync*
- dependencies.static.api.jobs[2]
  - Type: string
  - Description:
    - *glance-rabbit-init*
- dependencies.static.api.jobs[3]
  - Type: string
  - Description:
    - *glance-ks-user*
- dependencies.static.api.jobs[4]
  - Type: string
  - Description:
    - *glance-ks-endpoints*
- dependencies.static.api.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.api.services[1].endpoint
  - Type: string

- Description:
- *internal*
- dependencies.static.api.services[1].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.api.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.api.services[2].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.bootstrap.jobs
  - Type: string
  - Description:
  - *nil*
- dependencies.static.bootstrap.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.bootstrap.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.bootstrap.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.bootstrap.services[1].service
  - Type: string
  - Description:
  - *image*

- dependencies.static.clean.jobs
  - Type: string
  - Description:
  - *nil*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string
  - Description:
  - *glance-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string

- Description:
- *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
  - *glance-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
  - *identity*

- dependencies.static.metadefs\_load.jobs[0]
  - Type: string
  - Description:
    - *glance-db-sync*
- dependencies.static.metadefs\_load.services
  - Type: string
  - Description:
    - *nil*
- dependencies.static.rabbit\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.rabbit\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.storage\_init.jobs[0]
  - Type: string
  - Description:
    - *glance-ks-user*
- dependencies.static.storage\_init.services
  - Type: string
  - Description:
    - *nil*
- dependencies.static.tests.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.tests.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.tests.services[1].endpoint
  - Type: string



- Description:
  - *internal*
- dependencies.static.tests.services[1].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.tests.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.tests.services[2].service
  - Type: string
  - Description:
  - *image*
- endpoints.ceph\_object\_store.auth.glance.password
  - Type: string
  - Description:
  - *password*
- endpoints.ceph\_object\_store.auth.glance.tmpurlkey
  - Type: string
  - Description:
  - *supersecret*
- endpoints.ceph\_object\_store.auth.glance.username
  - Type: string
  - Description:
  - *glance*
- endpoints.ceph\_object\_store.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.ceph\_object\_store.hosts.default
  - Type: string
  - Description:
  - *ceph-rgw*

- endpoints.ceph\_object\_store.hosts.public
  - Type: string
  - Description:
    - *radosgw*
- endpoints.ceph\_object\_store.name
  - Type: string
  - Description:
    - *radosgw*
- endpoints.ceph\_object\_store.namespace
  - Type: string
  - Description:
    - *ceph*
- endpoints.ceph\_object\_store.path.default
  - Type: string
  - Description:
    - */auth/v1.0*
- endpoints.ceph\_object\_store.port.api.default
  - Type: int
  - Description:
    - *8088*
- endpoints.ceph\_object\_store.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.ceph\_object\_store.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
    - *cluster.local*
- endpoints.dashboard.host\_fqdn\_override.default
  - Type: string

- Description:
  - *nil*
- endpoints.dashboard.hosts.default
  - Type: string
  - Description:
  - *horizon-int*
- endpoints.dashboard.hosts.public
  - Type: string
  - Description:
  - *horizon*
- endpoints.dashboard.name
  - Type: string
  - Description:
  - *horizon*
- endpoints.dashboard.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.dashboard.port.web.default
  - Type: int
  - Description:
  - *80*
- endpoints.dashboard.port.web.public
  - Type: int
  - Description:
  - *443*
- endpoints.dashboard.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.dashboard.scheme.public
  - Type: string
  - Description:
  - *https*

- endpoints.fluentd.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
  - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
  - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
  - *24220*
- endpoints.fluentd.port.service.default
  - Type: int
  - Description:
  - *24224*
- endpoints.fluentd.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.identity.auth.admin.password
  - Type: string

- Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.glance.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.glance.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.glance.project\_name
  - Type: string
  - Description:
  - *service*

- endpoints.identity.auth.glance.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.glance.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.glance.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.glance.username
  - Type: string
  - Description:
    - *glance*
- endpoints.identity.auth.test.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.test.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.test.project\_name
  - Type: string
  - Description:
    - *test*
- endpoints.identity.auth.test.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.test.role
  - Type: string

- Description:
  - *admin*
- endpoints.identity.auth.test.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.test.username
  - Type: string
  - Description:
  - *glance-test*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
  - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
  - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
  - *80*

- endpoints.identity.port.api.internal
  - Type: int
  - Description:
    - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.image.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.image.hosts.default
  - Type: string
  - Description:
    - *glance-api*
- endpoints.image.hosts.public
  - Type: string
  - Description:
    - *glance*
- endpoints.image.name
  - Type: string
  - Description:
    - *glance*
- endpoints.image.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.image.path.healthcheck
  - Type: string
  - Description:
    - */healthcheck*
- endpoints.image.port.api.default
  - Type: int



- Description:
  - *9292*
- endpoints.image.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.image.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.image.scheme.service
  - Type: string
  - Description:
  - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
  - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
  - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
  - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:
  - *80*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*

- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
    - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
    - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
    - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
    - *53*
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
    - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:
    - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string

- Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
  - *5000*
- endpoints.object\_store.auth.glance.tmpurlkey
  - Type: string
  - Description:
  - *supersecret*
- endpoints.object\_store.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.object\_store.hosts.default
  - Type: string
  - Description:
  - *ceph-rgw*

- endpoints.object\_store.hosts.public
  - Type: string
  - Description:
    - *radosgw*
- endpoints.object\_store.name
  - Type: string
  - Description:
    - *swift*
- endpoints.object\_store.namespace
  - Type: string
  - Description:
    - *ceph*
- endpoints.object\_store.path.default
  - Type: string
  - Description:
    - */swift/v1/KEY\_\$(tenant\_id)s*
- endpoints.object\_store.port.api.default
  - Type: int
  - Description:
    - *8088*
- endpoints.object\_store.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.object\_store.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
    - *false*
- endpoints.oci\_image\_registry.auth.glance.password
  - Type: string

- Description:
  - *password*
- endpoints.oci\_image\_registry.auth.glance.username
  - Type: string
  - Description:
  - *glance*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*

- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
    - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
    - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
    - *root*
- endpoints.oslo\_db.auth.glance.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.glance.username
  - Type: string
  - Description:
    - *glance*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string

- Description:
  - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
  - */glance*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.admin.secret.tls.internal
  - Type: string
  - Description:
  - *rabbitmq-tls-direct*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.auth.glance.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.glance.username
  - Type: string
  - Description:
  - *glance*

- endpoints.oslo\_messaging.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
  - */glance*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
  - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int
  - Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*
- helm3\_hook
  - Type: bool



- Description:
  - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
  - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
  - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
  - *IfNotPresent*
- images.tags.bootstrap
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_drop
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
  - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu\_focal*

- images.tags.glance\_api
  - Type: string
  - Description:
    - *quay.io/airshipit/glance:2024.1-ubuntu\_jammy*
- images.tags.glance\_db\_sync
  - Type: string
  - Description:
    - *quay.io/airshipit/glance:2024.1-ubuntu\_jammy*
- images.tags.glance\_metadefs\_load
  - Type: string
  - Description:
    - *quay.io/airshipit/glance:2024.1-ubuntu\_jammy*
- images.tags.glance\_storage\_init
  - Type: string
  - Description:
    - *docker.io/openstackhelm/ceph-config-helper:latest-ubuntu\_xenial*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
    - *docker.io/docker:17.07.0*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.rabbit\_init
  - Type: string

- Description:
  - *docker.io/rabbitmq:3.13-management*
- images.tags.test
  - Type: string
  - Description:
  - *docker.io/xrally/xrally-openstack:2.0.0*
- keep\_pvc
  - Type: bool
  - Description:
  - *true*
- labels.api.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.api.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.job.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*

- manifests.certificates
  - Type: bool
  - Description:
    - *false*
- manifests.configmap\_bin
  - Type: bool
  - Description:
    - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_api
  - Type: bool
  - Description:
    - *true*
- manifests.ingress\_api
  - Type: bool
  - Description:
    - *true*
- manifests.job\_bootstrap
  - Type: bool
  - Description:
    - *true*
- manifests.job\_clean
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
    - *false*
- manifests.job\_db\_init
  - Type: bool

- Description:
  - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
  - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
  - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:
  - *true*
- manifests.job\_metadefs\_load
  - Type: bool
  - Description:
  - *true*
- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
  - *true*
- manifests.job\_storage\_init
  - Type: bool
  - Description:
  - *true*

- manifests.network\_policy
  - Type: bool
  - Description:
    - *false*
- manifests.pdb\_api
  - Type: bool
  - Description:
    - *true*
- manifests.pod\_rally\_test
  - Type: bool
  - Description:
    - *true*
- manifests.pvc\_images
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_db
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_ingress\_tls
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_registry
  - Type: bool

- Description:
- *true*
- manifests.service\_api
  - Type: bool
  - Description:
  - *true*
- manifests.service\_ingress\_api
  - Type: bool
  - Description:
  - *true*
- network.api.external\_policy\_local
  - Type: bool
  - Description:
  - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/proxy-body-size
  - Type: string
  - Description:
  - *0*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - */*
- network.api.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.api.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.api.ingress.public
  - Type: bool
  - Description:
  - *true*

- network.api.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.api.node\_port.port
  - Type: int
  - Description:
  - *30092*
- network\_policy.glance.egress[0]
  - Type: object
  - Description:
  - *{}*
- network\_policy.glance.ingress[0]
  - Type: object
  - Description:
  - *{}*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
  - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.api.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.termination\_grace\_period.api.timeout
  - Type: int



- Description:
  - *30*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.mounts.glance\_api.glance\_api.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.glance\_api.glance\_api.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.glance\_api.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.glance\_db\_sync.glance\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.glance\_db\_sync.glance\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.glance\_tests.glance\_tests.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.glance\_tests.glance\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.glance\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.probes.api.glance-api.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api.glance-api.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *5*
- pod.probes.api.glance-api.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *10*
- pod.probes.api.glance-api.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *5*
- pod.probes.api.glance-api.readiness.enabled
  - Type: bool

- Description:
  - *true*
- pod.probes.api.glance-api.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *10*
- pod.probes.api.glance-api.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *5*
- pod.replicas.api
  - Type: int
  - Description:
  - *1*
- pod.resources.api.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.api.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.api.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.api.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*

- pod.resources.jobs.bootstrap.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.bootstrap.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string

- Description:
  - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*

- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string

- Description:
  - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.metadefs\_load.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.metadefs\_load.limits.memory
  - Type: string
  - Description:
  - *1024Mi*

- pod.resources.jobs.metadefs\_load.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.metadefs\_load.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.storage\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.storage\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.storage\_init.requests.cpu
  - Type: string



- Description:
  - *100m*
- pod.resources.jobs.storage\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.security\_context.clean.container.glance\_secret\_clean.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.clean.container.glance\_secret\_clean.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.clean.pod.runAsUser
  - Type: int
  - Description:
  - *42424*

- pod.security\_context.glance.container.ceph\_keyring\_placement.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.glance.container.ceph\_keyring\_placement.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.glance.container.glance\_api.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.glance.container.glance\_api.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.glance.container.glance\_perms.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.glance.container.glance\_perms.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.glance.container.nginx.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.glance.container.nginx.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.glance.pod.runAsUser
  - Type: int

- Description:
  - *42424*
- pod.security\_context.metadefs\_load.container.glance\_metadefs\_load.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.metadefs\_load.container.glance\_metadefs\_load.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.metadefs\_load.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.storage\_init.container.ceph\_keyring\_placement.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.storage\_init.container.ceph\_keyring\_placement.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.storage\_init.container.glance\_storage\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.storage\_init.container.glance\_storage\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.storage\_init.pod.runAsUser
  - Type: int
  - Description:
  - *42424*

- pod.security\_context.test.container.glance\_test.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.test.container.glance\_test.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.test.container.glance\_test.runAsUser
  - Type: int
  - Description:
  - *65500*
- pod.security\_context.test.container.glance\_test\_ks\_user.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.test.container.glance\_test\_ks\_user.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.test.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.tolerations.glance.enabled
  - Type: bool
  - Description:
  - *false*
- pod.tolerations.glance.tolerations[0].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.glance.tolerations[0].key
  - Type: string

- Description:
- *node-role.kubernetes.io/master*
- pod.tolerations.glance.tolerations[0].operator
  - Type: string
  - Description:
  - *Exists*
- pod.tolerations.glance.tolerations[1].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.glance.tolerations[1].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/control-plane*
- pod.tolerations.glance.tolerations[1].operator
  - Type: string
  - Description:
  - *Exists*
- pod.useHostNetwork.api
  - Type: bool
  - Description:
  - *false*
- release\_group
  - Type: string
  - Description:
  - *nil*
- secrets.identity.admin
  - Type: string
  - Description:
  - *glance-keystone-admin*
- secrets.identity.glance
  - Type: string
  - Description:
  - *glance-keystone-user*

- secrets.identity.test
  - Type: string
  - Description:
    - *glance-keystone-test*
- secrets.oci\_image\_registry.glance
  - Type: string
  - Description:
    - *glance-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string
  - Description:
    - *glance-db-admin*
- secrets.oslo\_db.glance
  - Type: string
  - Description:
    - *glance-db-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
    - *glance-rabbitmq-admin*
- secrets.oslo\_messaging.glance
  - Type: string
  - Description:
    - *glance-rabbitmq-user*
- secrets.rbd
  - Type: string
  - Description:
    - *images-rbd-keyring*
- secrets.tls.image.api.internal
  - Type: string
  - Description:
    - *glance-tls-api*
- secrets.tls.image.api.public
  - Type: string

- Description:
  - *glance-tls-public*
- storage
  - Type: string
  - Description:
  - *swift*
- tls.identity
  - Type: bool
  - Description:
  - *false*
- tls.oslo\_db
  - Type: bool
  - Description:
  - *false*
- tls.oslo\_messaging
  - Type: bool
  - Description:
  - *false*
- volume.accessModes[0]
  - Type: string
  - Description:
  - *ReadWriteOnce*
- volume.class\_name
  - Type: string
  - Description:
  - *general*
- volume.size
  - Type: string
  - Description:
  - *2Gi*

## 3.8 Heat

There are various customizations you can do to tailor the deployment of OpenStack Heat. You can find those below.

### 3.8.1 General Parameters

- bootstrap.enabled
  - Type: bool
  - Description:
  - *true*
- bootstrap.ks\_user
  - Type: string
  - Description:
  - *admin*
- bootstrap.script
  - Type: string
  - Description:

```
#NOTE(portdirect): The Orchestration service automatically assigns
↪ the
'heat_stack_user' role to users that it creates during stack
↪ deployment.
By default, this role restricts API operations. To avoid conflicts,
↪ do
not add this role to actual users.
openstack role create --or-show heat_stack_user
```

- conf.api\_audit\_map.DEFAULT.target\_endpoint\_type
  - Type: string
  - Description:
  - *None*
- conf.api\_audit\_map.path\_keywords.abandon
  - Type: string
  - Description:
  - *None*
- conf.api\_audit\_map.path\_keywords.actions
  - Type: string
  - Description:
  - *None*
- conf.api\_audit\_map.path\_keywords.build\_info
  - Type: string
  - Description:
  - *None*



- `conf.api_audit_map.path_keywords.detail`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.events`
  - Type: string
  - Description:
  - *event*
- `conf.api_audit_map.path_keywords.functions`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.metadata`
  - Type: string
  - Description:
  - *server*
- `conf.api_audit_map.path_keywords.outputs`
  - Type: string
  - Description:
  - *output*
- `conf.api_audit_map.path_keywords.preview`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.resource_types`
  - Type: string
  - Description:
  - *resource\_type*
- `conf.api_audit_map.path_keywords.resources`
  - Type: string
  - Description:
  - *resource*
- `conf.api_audit_map.path_keywords.restore`
  - Type: string

- Description:
  - *None*
- `conf.api_audit_map.path_keywords.services`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.signal`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.snapshots`
  - Type: string
  - Description:
  - *snapshot*
- `conf.api_audit_map.path_keywords.software_configs`
  - Type: string
  - Description:
  - *software\_config*
- `conf.api_audit_map.path_keywords.software_deployments`
  - Type: string
  - Description:
  - *software\_deployment*
- `conf.api_audit_map.path_keywords.stacks`
  - Type: string
  - Description:
  - *stack*
- `conf.api_audit_map.path_keywords.template`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.template_versions`
  - Type: string
  - Description:
  - *template\_version*

- `conf.api_audit_map.path_keywords.validate`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.service_endpoints`
  - Type: string
  - Description:
  - *orchestration:service/orchestration*
- `conf.heat.DEFAULT.host`
  - Type: string
  - Description:
  - *heat-engine*
- `conf.heat.DEFAULT.log_config_append`
  - Type: string
  - Description:
  - */etc/heat/logging.conf*
- `conf.heat.DEFAULT.num_engine_workers`
  - Type: int
  - Description:
  - *1*
- `conf.heat.DEFAULT.trusts_delegated_roles`
  - Type: string
  - Description:
  -
- `conf.heat.clients.endpoint_type`
  - Type: string
  - Description:
  - *internalURL*
- `conf.heat.clients_heat.endpoint_type`
  - Type: string
  - Description:
  - *publicURL*
- `conf.heat.clients_keystone.endpoint_type`
  - Type: string

- Description:
  - *internalURL*
- conf.heat.database.max\_retries
  - Type: int
  - Description:
  - *-1*
- conf.heat.heat\_api.bind\_port
  - Type: string
  - Description:
  - *nil*
- conf.heat.heat\_api.workers
  - Type: int
  - Description:
  - *1*
- conf.heat.heat\_api\_cfn.bind\_port
  - Type: string
  - Description:
  - *nil*
- conf.heat.heat\_api\_cfn.workers
  - Type: int
  - Description:
  - *1*
- conf.heat.heat\_api\_cloudwatch.bind\_port
  - Type: string
  - Description:
  - *nil*
- conf.heat.heat\_api\_cloudwatch.workers
  - Type: int
  - Description:
  - *1*
- conf.heat.keystone\_authtoken.auth\_type
  - Type: string
  - Description:
  - *password*

- `conf.heat.keystone_authtoken.auth_version`
  - Type: string
  - Description:
    - *v3*
- `conf.heat.keystone_authtoken.memcache_security_strategy`
  - Type: string
  - Description:
    - *ENCRYPT*
- `conf.heat.keystone_authtoken.service_type`
  - Type: string
  - Description:
    - *orchestration*
- `conf.heat.oslo_messaging_notifications.driver`
  - Type: string
  - Description:
    - *messagingv2*
- `conf.heat.oslo_messaging_rabbit.rabbit_ha_queues`
  - Type: bool
  - Description:
    - *true*
- `conf.heat.oslo_middleware.enable_proxy_headers_parsing`
  - Type: bool
  - Description:
    - *true*
- `conf.heat.oslo_policy.policy_file`
  - Type: string
  - Description:
    - */etc/heat/policy.yaml*
- `conf.heat.paste_deploy.api_paste_config`
  - Type: string
  - Description:
    - */etc/heat/api-paste.ini*
- `conf.heat.trustee.auth_type`
  - Type: string

- Description:
- *password*
- `conf.heat.trustee.auth_version`
  - Type: string
  - Description:
  - *v3*
- `conf.heat_api_cfn_uwsgi.uwsgi.add-header`
  - Type: string
  - Description:
  - *Connection: close*
- `conf.heat_api_cfn_uwsgi.uwsgi.buffer-size`
  - Type: int
  - Description:
  - *65535*
- `conf.heat_api_cfn_uwsgi.uwsgi.die-on-term`
  - Type: bool
  - Description:
  - *true*
- `conf.heat_api_cfn_uwsgi.uwsgi.enable-threads`
  - Type: bool
  - Description:
  - *true*
- `conf.heat_api_cfn_uwsgi.uwsgi.exit-on-reload`
  - Type: bool
  - Description:
  - *false*
- `conf.heat_api_cfn_uwsgi.uwsgi.hook-master-start`
  - Type: string
  - Description:
  - *unix\_signal:15 gracefully\_kill\_them\_all*
- `conf.heat_api_cfn_uwsgi.uwsgi.lazy-apps`
  - Type: bool
  - Description:
  - *true*

- `conf.heat_api_cfn_uwsgi.uwsgi.log-x-forwarded-for`
  - Type: bool
  - Description:
    - *true*
- `conf.heat_api_cfn_uwsgi.uwsgi.master`
  - Type: bool
  - Description:
    - *true*
- `conf.heat_api_cfn_uwsgi.uwsgi.procname-prefix-spaced`
  - Type: string
  - Description:
    - *heat-api-cfn:*
- `conf.heat_api_cfn_uwsgi.uwsgi.route-user-agent`
  - Type: string
  - Description:
    - *^kube-probe.\* donotlog:*
- `conf.heat_api_cfn_uwsgi.uwsgi.thunder-lock`
  - Type: bool
  - Description:
    - *true*
- `conf.heat_api_cfn_uwsgi.uwsgi.worker-reload-mercy`
  - Type: int
  - Description:
    - *80*
- `conf.heat_api_cfn_uwsgi.uwsgi.wsgi-file`
  - Type: string
  - Description:
    - */var/lib/openstack/bin/heat-wsgi-api-cfn*
- `conf.heat_api_uwsgi.uwsgi.add-header`
  - Type: string
  - Description:
    - *Connection: close*
- `conf.heat_api_uwsgi.uwsgi.buffer-size`
  - Type: int

- Description:
  - *65535*
- `conf.heat_api_uwsgi.uwsgi.die-on-term`
  - Type: `bool`
  - Description:
  - *true*
- `conf.heat_api_uwsgi.uwsgi.enable-threads`
  - Type: `bool`
  - Description:
  - *true*
- `conf.heat_api_uwsgi.uwsgi.exit-on-reload`
  - Type: `bool`
  - Description:
  - *false*
- `conf.heat_api_uwsgi.uwsgi.hook-master-start`
  - Type: `string`
  - Description:
  - *unix\_signal:15 gracefully\_kill\_them\_all*
- `conf.heat_api_uwsgi.uwsgi.lazy-apps`
  - Type: `bool`
  - Description:
  - *true*
- `conf.heat_api_uwsgi.uwsgi.log-x-forwarded-for`
  - Type: `bool`
  - Description:
  - *true*
- `conf.heat_api_uwsgi.uwsgi.master`
  - Type: `bool`
  - Description:
  - *true*
- `conf.heat_api_uwsgi.uwsgi.procname-prefix-spaced`
  - Type: `string`
  - Description:
  - *heat-api:*



- `conf.heat_api_uwsgi.uwsgi.route-user-agent`
  - Type: string
  - Description:
    - *^kubernetes.\* donotlog:*
- `conf.heat_api_uwsgi.uwsgi.thunder-lock`
  - Type: bool
  - Description:
    - *true*
- `conf.heat_api_uwsgi.uwsgi.worker-reload-mercy`
  - Type: int
  - Description:
    - *80*
- `conf.heat_api_uwsgi.uwsgi.wsgi-file`
  - Type: string
  - Description:
    - */var/lib/openstack/bin/heat-wsgi-api*
- `conf.logging.formatter_context.class`
  - Type: string
  - Description:
    - *oslo\_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
  - Type: string
  - Description:
    - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
  - Type: string
  - Description:
    - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
  - Type: string
  - Description:
    - *%(message)s*
- `conf.logging.formatters.keys[0]`
  - Type: string

- Description:
  - *context*
- `conf.logging.formatters.keys[1]`
  - Type: string
  - Description:
  - *default*
- `conf.logging.handler_null.args`
  - Type: string
  - Description:
  - `()`
- `conf.logging.handler_null.class`
  - Type: string
  - Description:
  - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
  - Type: string
  - Description:
  - *default*
- `conf.logging.handler_stderr.args`
  - Type: string
  - Description:
  - `(sys.stderr,)`
- `conf.logging.handler_stderr.class`
  - Type: string
  - Description:
  - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
  - Type: string
  - Description:
  - *context*
- `conf.logging.handler_stdout.args`
  - Type: string
  - Description:
  - `(sys.stdout,)`

- `conf.logging.handler_stdout.class`
  - Type: string
  - Description:
    - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
  - Type: string
  - Description:
    - *context*
- `conf.logging.handlers.keys[0]`
  - Type: string
  - Description:
    - *stdout*
- `conf.logging.handlers.keys[1]`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.handlers.keys[2]`
  - Type: string
  - Description:
    - *null*
- `conf.logging.logger_amqp.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_amqp.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_amqp.qualname`
  - Type: string
  - Description:
    - *amqp*
- `conf.logging.logger_amqplib.handlers`
  - Type: string

- Description:
  - *stderr*
- `conf.logging.logger_amqplib.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_amqplib.qualname`
  - Type: string
  - Description:
  - *amqplib*
- `conf.logging.logger_boto.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_boto.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_boto.qualname`
  - Type: string
  - Description:
  - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_eventletwsgi.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
  - Type: string
  - Description:
  - *eventlet.wsgi.server*

- `conf.logging.logger_heat.handlers[0]`
  - Type: string
  - Description:
    - *stdout*
- `conf.logging.logger_heat.level`
  - Type: string
  - Description:
    - *INFO*
- `conf.logging.logger_heat.qualname`
  - Type: string
  - Description:
    - *heat*
- `conf.logging.logger_root.handlers`
  - Type: string
  - Description:
    - *null*
- `conf.logging.logger_root.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_sqlalchemy.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
  - Type: string
  - Description:
    - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
  - Type: string

- Description:
  - *root*
- `conf.logging.loggers.keys[1]`
  - Type: string
  - Description:
  - *heat*
- `conf.paste.app:apicfnv1app.heat.app_factory`
  - Type: string
  - Description:
  - *heat.api.cfn.v1:API*
- `conf.paste.app:apicfnv1app.paste.app_factory`
  - Type: string
  - Description:
  - *heat.common.wsgi:app\_factory*
- `conf.paste.app:apicwapp.heat.app_factory`
  - Type: string
  - Description:
  - *heat.api.cloudwatch:API*
- `conf.paste.app:apicwapp.paste.app_factory`
  - Type: string
  - Description:
  - *heat.common.wsgi:app\_factory*
- `conf.paste.app:apiv1app.heat.app_factory`
  - Type: string
  - Description:
  - *heat.api.openstack.v1:API*
- `conf.paste.app:apiv1app.paste.app_factory`
  - Type: string
  - Description:
  - *heat.common.wsgi:app\_factory*
- `conf.paste.filter:audit.paste.filter_factory`
  - Type: string
  - Description:
  - *keystonemiddleware.audit:filter\_factory*

- `conf.paste.filter:audit.audit_map_file`
  - Type: string
  - Description:
    - */etc/heat/api\_audit\_map.conf*
- `conf.paste.filter:authpassword.paste.filter_factory`
  - Type: string
  - Description:
    - *heat.common.auth\_password:filter\_factory*
- `conf.paste.filter:authtoken.paste.filter_factory`
  - Type: string
  - Description:
    - *keystonemiddleware.auth\_token:filter\_factory*
- `conf.paste.filter:authurl.paste.filter_factory`
  - Type: string
  - Description:
    - *heat.common.auth\_url:filter\_factory*
- `conf.paste.filter:cfnversionnegotiation.heat.filter_factory`
  - Type: string
  - Description:
    - *heat.api.cfn:version\_negotiation\_filter*
- `conf.paste.filter:cfnversionnegotiation.paste.filter_factory`
  - Type: string
  - Description:
    - *heat.common.wsgi:filter\_factory*
- `conf.paste.filter:context.paste.filter_factory`
  - Type: string
  - Description:
    - *heat.common.context:ContextMiddleware\_filter\_factory*
- `conf.paste.filter:cors.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.cors:filter\_factory*
- `conf.paste.filter:cors.oslo_config_project`
  - Type: string

- Description:
  - *heat*
- `conf.paste.filter:custombackendauth.paste.filter_factory`
  - Type: string
  - Description:
  - *heat.common.custom\_backend\_auth:filter\_factory*
- `conf.paste.filter:cwversionnegotiation.heat.filter_factory`
  - Type: string
  - Description:
  - *heat.api.cloudwatch:version\_negotiation\_filter*
- `conf.paste.filter:cwversionnegotiation.paste.filter_factory`
  - Type: string
  - Description:
  - *heat.common.wsgi:filter\_factory*
- `conf.paste.filter:ec2authtoken.paste.filter_factory`
  - Type: string
  - Description:
  - *heat.api.aws.ec2token:EC2Token\_filter\_factory*
- `conf.paste.filter:faultwrap.heat.filter_factory`
  - Type: string
  - Description:
  - *heat.api.openstack:faultwrap\_filter*
- `conf.paste.filter:faultwrap.paste.filter_factory`
  - Type: string
  - Description:
  - *heat.common.wsgi:filter\_factory*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo.middleware:HTTPProxyToWSGI.factory*
- `conf.paste.filter:osprofiler.paste.filter_factory`
  - Type: string
  - Description:
  - *osprofiler.web:WsgiMiddleware.factory*



- `conf.paste.filter:request_id.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.request\_id:RequestId.factory*
- `conf.paste.filter:versionnegotiation.heat.filter_factory`
  - Type: string
  - Description:
    - *heat.api.openstack:version\_negotiation\_filter*
- `conf.paste.filter:versionnegotiation.paste.filter_factory`
  - Type: string
  - Description:
    - *heat.common.wsgi:filter\_factory*
- `conf.paste.pipeline:heat-api-cfn-standalone.pipeline`
  - Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi cfnversionnegotiation ec2authtoken context apicfnlapp*
- `conf.paste.pipeline:heat-api-cfn.pipeline`
  - Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi cfnversionnegotiation osprofiler ec2authtoken authtoken audit context apicfnlapp*
- `conf.paste.pipeline:heat-api-cloudwatch-standalone.pipeline`
  - Type: string
  - Description:
    - *cors versionnegotiation ec2authtoken context apicwapp*
- `conf.paste.pipeline:heat-api-cloudwatch.pipeline`
  - Type: string
  - Description:
    - *cors versionnegotiation osprofiler ec2authtoken authtoken audit context apicwapp*
- `conf.paste.pipeline:heat-api-custombackend.pipeline`
  - Type: string
  - Description:
    - *cors request\_id faultwrap versionnegotiation context custombackendauth apivlapp*
- `conf.paste.pipeline:heat-api-standalone.pipeline`
  - Type: string

- Description:
- *cors request\_id faultwrap http\_proxy\_to\_wsgi versionnegotiation authurl authpassword context apiv1app*
- `conf.paste.pipeline:heat-api.pipeline`
  - Type: string
  - Description:
  - *cors request\_id faultwrap http\_proxy\_to\_wsgi versionnegotiation osprofiler authurl authoken audit context apiv1app*
- `conf.policy`
  - Type: object
  - Description:
  - *{}*
- `conf.rabbitmq.policies[0].apply-to`
  - Type: string
  - Description:
  - *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`
  - Type: string
  - Description:
  - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
  - Type: string
  - Description:
  - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
  - Type: int
  - Description:
  - *70000*
- `conf.rabbitmq.policies[0].name`
  - Type: string
  - Description:
  - *ha\_ttl\_heat*
- `conf.rabbitmq.policies[0].pattern`
  - Type: string
  - Description:

- `^(?!(amq\|reply_)).*`
- `conf.rabbitmq.policies[0].priority`
  - Type: int
  - Description:
  - `0`
- `conf.rabbitmq.policies[0].vhost`
  - Type: string
  - Description:
  - `heat`
- `conf.rally_tests.run_tempest`
  - Type: bool
  - Description:
  - `false`
- `conf.rally_tests.templates[0].name`
  - Type: string
  - Description:
  - `/tmp/rally-jobs/default.yaml`
- `conf.rally_tests.templates[0].template`
  - Type: string
  - Description:

```
– heat_template_version: 2014-10-16
```

- `conf.rally_tests.templates[1].name`
  - Type: string
  - Description:
  - `/tmp/rally-jobs/random_strings.yaml`
- `conf.rally_tests.templates[1].template`
  - Type: string
  - Description:

```
– heat_template_version: 2014-10-16
description: Test template for rally create-update-delete scenario
resources:
 test_string_one:
 type: OS::Heat::RandomString
 properties:
 length: 20
```

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```
test_string_two:
 type: OS::Heat::RandomString
 properties:
 length: 20
```

- conf.rally\_tests.templates[2].name
  - Type: string
  - Description:
  - */tmp/rally-jobs/resource\_group\_with\_constraint.yaml*

- conf.rally\_tests.templates[2].template

- Type: string
- Description:

```
– heat_template_version: 2013-05-23
description: Template for testing caching.
parameters:
 count:
 type: number
 default: 40
 delay:
 type: number
 default: 0.1
resources:
 rg:
 type: OS::Heat::ResourceGroup
 properties:
 count:
 get_param: count
 resource_def:
 type: OS::Heat::TestResource
 properties:
 constraint_prop_secs:
 get_param: delay
```

- conf.rally\_tests.templates[3].name
  - Type: string
  - Description:
  - */tmp/rally-jobs/resource\_group\_with\_outputs.yaml*

- conf.rally\_tests.templates[3].template

- Type: string
- Description:

```
– heat_template_version: 2013-05-23
parameters:
```

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```
attr_wait_secs:
 type: number
 default: 0.5
resources:
 rg:
 type: OS::Heat::ResourceGroup
 properties:
 count: 10
 resource_def:
 type: OS::Heat::TestResource
 properties:
 attr_wait_secs:
 get_param: attr_wait_secs
outputs:
 val1:
 value:
 get_attr:
 - rg
 - resource.0.output
 val2:
 value:
 get_attr:
 - rg
 - resource.1.output
 val3:
 value:
 get_attr:
 - rg
 - resource.2.output
 val4:
 value:
 get_attr:
 - rg
 - resource.3.output
 val5:
 value:
 get_attr:
 - rg
 - resource.4.output
 val6:
 value:
 get_attr:
 - rg
 - resource.5.output
 val7:
 value:
 get_attr:
 - rg
 - resource.6.output
```

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```

val8:
 value:
 get_attr:
 - rg
 - resource.7.output
val9:
 value:
 get_attr:
 - rg
 - resource.8.output
val10:
 value:
 get_attr:
 - rg
 - resource.9.output

```

- `conf.rally_tests.templates[4].name`
  - Type: string
  - Description:
  - `/tmp/rally-jobs/updated_random_strings_replace.yaml`
- `conf.rally_tests.templates[4].template`
  - Type: string
  - Description:

```

- heat_template_version: 2014-10-16
description: |
 Test template for create-update-delete-stack scenario in rally.
 The template deletes one resource from the stack defined by
 random-strings.yaml.template and re-creates it with the updated.
↪parameters
 (so-called update-replace). That happens because some parameters.
↪cannot be
 changed without resource re-creation. The template allows to.
↪measure performance
 of update-replace operation.
resources:
 test_string_one:
 type: OS::Heat::RandomString
 properties:
 length: 20
 test_string_two:
 type: OS::Heat::RandomString
 properties:
 length: 40

```

- `conf.rally_tests.tests.HeatStacks.create_and_delete_stack[0].args.template_path`
  - Type: string

- Description:
  - */tmp/rally-jobs/resource\_group\_with\_constraint.yaml*
- `conf.rally_tests.tests.HeatStacks.create_and_delete_stack[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_and_delete_stack[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_and_delete_stack[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.HeatStacks.create_and_delete_stack[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.HeatStacks.create_and_list_stack[0].args.template_path`
  - Type: string
  - Description:
  - */tmp/rally-jobs/default.yaml*
- `conf.rally_tests.tests.HeatStacks.create_and_list_stack[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_and_list_stack[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_and_list_stack[0].runner.type`
  - Type: string
  - Description:
  - *constant*

- `conf.rally_tests.tests.HeatStacks.create_and_list_stack[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.HeatStacks.create_check_delete_stack[0].args.template_path`
  - Type: string
  - Description:
  - */tmp/rally-jobs/random\_strings.yaml*
- `conf.rally_tests.tests.HeatStacks.create_check_delete_stack[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_check_delete_stack[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_check_delete_stack[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.HeatStacks.create_check_delete_stack[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.HeatStacks.create_snapshot_restore_delete_stack[0].args.template_path`
  - Type: string
  - Description:
  - */tmp/rally-jobs/random\_strings.yaml*
- `conf.rally_tests.tests.HeatStacks.create_snapshot_restore_delete_stack[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_snapshot_restore_delete_stack[0].runner.times`
  - Type: int



- Description:
  - *1*
- conf.rally\_tests.tests.HeatStacks.create\_snapshot\_restore\_delete\_stack[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.HeatStacks.create\_snapshot\_restore\_delete\_stack[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.HeatStacks.create\_stack\_and\_list\_output[0].args.template\_path
  - Type: string
  - Description:
  - */tmp/rally-jobs/resource\_group\_with\_outputs.yaml*
- conf.rally\_tests.tests.HeatStacks.create\_stack\_and\_list\_output[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.HeatStacks.create\_stack\_and\_list\_output[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.HeatStacks.create\_stack\_and\_list\_output[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.HeatStacks.create\_stack\_and\_list\_output[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.HeatStacks.create\_stack\_and\_list\_output\_via\_API[0].args.template\_path
  - Type: string
  - Description:
  - */tmp/rally-jobs/resource\_group\_with\_outputs.yaml*

- `conf.rally_tests.tests.HeatStacks.create_stack_and_list_output_via_API[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_stack_and_list_output_via_API[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_stack_and_list_output_via_API[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.HeatStacks.create_stack_and_list_output_via_API[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.HeatStacks.create_update_delete_stack[0].args.template_path`
  - Type: string
  - Description:
  - */tmp/rally-jobs/random\_strings.yaml*
- `conf.rally_tests.tests.HeatStacks.create_update_delete_stack[0].args.updated_template_path`
  - Type: string
  - Description:
  - */tmp/rally-jobs/updated\_random\_strings\_replace.yaml*
- `conf.rally_tests.tests.HeatStacks.create_update_delete_stack[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_update_delete_stack[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.HeatStacks.create_update_delete_stack[0].runner.type`
  - Type: string

- Description:
  - *constant*
- `conf.rally_tests.tests.HeatStacks.create_update_delete_stack[0].sla.failure_rate.max`
  - Type: `int`
  - Description:
  - `0`
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
  - Type: `string`
  - Description:
  - *heat-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`
  - Type: `string`
  - Description:
  - *node*
- `dependencies.dynamic.common.local_image_registry.services[0].service`
  - Type: `string`
  - Description:
  - *local\_image\_registry*
- `dependencies.static.api.jobs[0]`
  - Type: `string`
  - Description:
  - *heat-db-sync*
- `dependencies.static.api.jobs[1]`
  - Type: `string`
  - Description:
  - *heat-rabbit-init*
- `dependencies.static.api.jobs[2]`
  - Type: `string`
  - Description:
  - *heat-ks-user*
- `dependencies.static.api.jobs[3]`
  - Type: `string`
  - Description:
  - *heat-trustee-ks-user*

- dependencies.static.api.jobs[4]
  - Type: string
  - Description:
    - *heat-domain-ks-user*
- dependencies.static.api.jobs[5]
  - Type: string
  - Description:
    - *heat-ks-endpoints*
- dependencies.static.api.jobs[6]
  - Type: string
  - Description:
    - *heat-bootstrap*
- dependencies.static.api.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.api.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[1].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.api.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[2].service
  - Type: string

- Description:
  - *identity*
- dependencies.static.bootstrap.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.bootstrap.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.cfn.jobs[0]
  - Type: string
  - Description:
  - *heat-db-sync*
- dependencies.static.cfn.jobs[1]
  - Type: string
  - Description:
  - *heat-rabbit-init*
- dependencies.static.cfn.jobs[2]
  - Type: string
  - Description:
  - *heat-ks-user*
- dependencies.static.cfn.jobs[3]
  - Type: string
  - Description:
  - *heat-trustee-ks-user*
- dependencies.static.cfn.jobs[4]
  - Type: string
  - Description:
  - *heat-domain-ks-user*
- dependencies.static.cfn.jobs[5]
  - Type: string
  - Description:
  - *heat-ks-endpoints*

- dependencies.static.cfn.jobs[6]
  - Type: string
  - Description:
    - *heat-bootstrap*
- dependencies.static.cfn.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.cfn.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.cfn.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.cfn.services[1].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.cfn.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.cfn.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.cloudwatch.jobs[0]
  - Type: string
  - Description:
    - *heat-db-sync*
- dependencies.static.cloudwatch.jobs[1]
  - Type: string

- Description:
  - *heat-rabbit-init*
- dependencies.static.cloudwatch.jobs[2]
  - Type: string
  - Description:
  - *heat-ks-user*
- dependencies.static.cloudwatch.jobs[3]
  - Type: string
  - Description:
  - *heat-trustee-ks-user*
- dependencies.static.cloudwatch.jobs[4]
  - Type: string
  - Description:
  - *heat-domain-ks-user*
- dependencies.static.cloudwatch.jobs[5]
  - Type: string
  - Description:
  - *heat-ks-endpoints*
- dependencies.static.cloudwatch.jobs[6]
  - Type: string
  - Description:
  - *heat-bootstrap*
- dependencies.static.cloudwatch.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.cloudwatch.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.cloudwatch.services[1].endpoint
  - Type: string
  - Description:
  - *internal*

- dependencies.static.cloudwatch.services[1].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.cloudwatch.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.cloudwatch.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string
  - Description:
    - *heat-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string



- Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.engine.jobs[0]
  - Type: string
  - Description:
  - *heat-db-sync*
- dependencies.static.engine.jobs[1]
  - Type: string
  - Description:
  - *heat-rabbit-init*
- dependencies.static.engine.jobs[2]
  - Type: string
  - Description:
  - *heat-ks-user*
- dependencies.static.engine.jobs[3]
  - Type: string
  - Description:
  - *heat-trustee-ks-user*
- dependencies.static.engine.jobs[4]
  - Type: string
  - Description:
  - *heat-domain-ks-user*
- dependencies.static.engine.jobs[5]
  - Type: string
  - Description:
  - *heat-ks-endpoints*
- dependencies.static.engine.jobs[6]
  - Type: string
  - Description:
  - *heat-bootstrap*

- dependencies.static.engine.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.engine.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.engine.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.engine.services[1].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.engine.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.engine.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.engine\_cleaner.jobs[0]
  - Type: string
  - Description:
    - *heat-db-sync*
- dependencies.static.engine\_cleaner.jobs[1]
  - Type: string
  - Description:
    - *heat-ks-user*
- dependencies.static.engine\_cleaner.jobs[2]
  - Type: string

- Description:
  - *heat-trustee-ks-user*
- dependencies.static.engine\_cleaner.jobs[3]
  - Type: string
  - Description:
  - *heat-domain-ks-user*
- dependencies.static.engine\_cleaner.jobs[4]
  - Type: string
  - Description:
  - *heat-ks-endpoints*
- dependencies.static.engine\_cleaner.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.engine\_cleaner.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.engine\_cleaner.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.engine\_cleaner.services[1].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.engine\_cleaner.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.engine\_cleaner.services[2].service
  - Type: string
  - Description:
  - *identity*

- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
    - *local\_image\_registry*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
    - *heat-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string

- Description:
  - *identity*
- dependencies.static.purge\_deleted.jobs[0]
  - Type: string
  - Description:
  - *heat-db-sync*
- dependencies.static.purge\_deleted.jobs[1]
  - Type: string
  - Description:
  - *heat-ks-user*
- dependencies.static.purge\_deleted.jobs[2]
  - Type: string
  - Description:
  - *heat-trustee-ks-user*
- dependencies.static.purge\_deleted.jobs[3]
  - Type: string
  - Description:
  - *heat-domain-ks-user*
- dependencies.static.purge\_deleted.jobs[4]
  - Type: string
  - Description:
  - *heat-ks-endpoints*
- dependencies.static.purge\_deleted.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.purge\_deleted.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.purge\_deleted.services[1].endpoint
  - Type: string
  - Description:
  - *internal*

- dependencies.static.purge\_deleted.services[1].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.purge\_deleted.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.purge\_deleted.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.rabbit\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.rabbit\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.tests.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.tests.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.tests.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.tests.services[1].service
  - Type: string

- Description:
  - *orchestration*
- dependencies.static.trusts.jobs[0]
  - Type: string
  - Description:
  - *heat-ks-user*
- dependencies.static.trusts.jobs[1]
  - Type: string
  - Description:
  - *heat-trustee-ks-user*
- dependencies.static.trusts.jobs[2]
  - Type: string
  - Description:
  - *heat-domain-ks-user*
- dependencies.static.trusts.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.trusts.services[0].service
  - Type: string
  - Description:
  - *identity*
- endpoints.cloudformation.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.cloudformation.hosts.default
  - Type: string
  - Description:
  - *heat-cfn*
- endpoints.cloudformation.hosts.public
  - Type: string
  - Description:
  - *cloudformation*

- endpoints.cloudformation.name
  - Type: string
  - Description:
    - *heat-cfn*
- endpoints.cloudformation.path.default
  - Type: string
  - Description:
    - */v1*
- endpoints.cloudformation.port.api.default
  - Type: int
  - Description:
    - *8000*
- endpoints.cloudformation.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.cloudformation.port.api.service
  - Type: int
  - Description:
    - *8000*
- endpoints.cloudformation.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.cloudformation.scheme.service
  - Type: string
  - Description:
    - *http*
- endpoints.cloudwatch.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.cloudwatch.hosts.default
  - Type: string



- Description:
  - *heat-cloudwatch*
- endpoints.cloudwatch.hosts.public
  - Type: string
  - Description:
  - *cloudwatch*
- endpoints.cloudwatch.name
  - Type: string
  - Description:
  - *heat-cloudwatch*
- endpoints.cloudwatch.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.cloudwatch.port.api.default
  - Type: int
  - Description:
  - *8003*
- endpoints.cloudwatch.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.cloudwatch.port.api.service
  - Type: int
  - Description:
  - *8003*
- endpoints.cloudwatch.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.cloudwatch.scheme.service
  - Type: string
  - Description:
  - *http*

- endpoints.cloudwatch.type
  - Type: string
  - Description:
  - *nil*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
  - *cluster.local*
- endpoints.fluentd.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
  - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
  - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
  - *24220*
- endpoints.fluentd.port.service.default
  - Type: int

- Description:
  - *24224*
- endpoints.fluentd.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.identity.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.heat.password
  - Type: string
  - Description:
  - *password*

- endpoints.identity.auth.heat.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.heat.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.heat.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.heat.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.heat.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.heat.username
  - Type: string
  - Description:
    - *heat*
- endpoints.identity.auth.heat\_stack\_user.domain\_name
  - Type: string
  - Description:
    - *heat*
- endpoints.identity.auth.heat\_stack\_user.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.heat\_stack\_user.region\_name
  - Type: string

- Description:
  - *RegionOne*
- endpoints.identity.auth.heat\_stack\_user.role
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.heat\_stack\_user.username
  - Type: string
  - Description:
  - *heat-domain*
- endpoints.identity.auth.heat\_trustee.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.heat\_trustee.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.heat\_trustee.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.heat\_trustee.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.heat\_trustee.role
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.heat\_trustee.user\_domain\_name
  - Type: string
  - Description:
  - *service*

- endpoints.identity.auth.heat\_trustee.username
  - Type: string
  - Description:
    - *heat-trust*
- endpoints.identity.auth.test.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.test.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.test.project\_name
  - Type: string
  - Description:
    - *test*
- endpoints.identity.auth.test.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.test.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.test.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.test.username
  - Type: string
  - Description:
    - *heat-test*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string

- Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
  - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
  - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
  - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
  - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
  - *ingress*

- endpoints.ingress.name
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:
    - *80*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
    - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
    - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
    - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int



- Description:
  - *53*
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
  - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
  - *docker-registry*

- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
    - *5000*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
    - *false*
- endpoints.oci\_image\_registry.auth.heat.password
  - Type: string
  - Description:
    - *password*
- endpoints.oci\_image\_registry.auth.heat.username
  - Type: string
  - Description:
    - *heat*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
    - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string

- Description:
  - *nil*
- endpoints.orchestration.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.orchestration.hosts.default
  - Type: string
  - Description:
  - *heat-api*
- endpoints.orchestration.hosts.public
  - Type: string
  - Description:
  - *heat*
- endpoints.orchestration.name
  - Type: string
  - Description:
  - *heat*
- endpoints.orchestration.path.default
  - Type: string
  - Description:
  - */v1/%(project\_id)s*
- endpoints.orchestration.port.api.default
  - Type: int
  - Description:
  - *8004*
- endpoints.orchestration.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.orchestration.port.api.service
  - Type: int
  - Description:
  - *8004*

- endpoints.orchestration.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.orchestration.scheme.service
  - Type: string
  - Description:
    - *http*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
    - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
    - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string

- Description:
  - *root*
- endpoints.oslo\_db.auth.heat.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.heat.username
  - Type: string
  - Description:
  - *heat*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:
  - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
  - */heat*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
  - *password*

- endpoints.oslo\_messaging.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *rabbitmq-tls-direct*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
    - *rabbitmq*
- endpoints.oslo\_messaging.auth.heat.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_messaging.auth.heat.username
  - Type: string
  - Description:
    - *heat*
- endpoints.oslo\_messaging.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
    - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
    - */heat*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
    - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int

- Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*
- helm3\_hook
  - Type: bool
  - Description:
  - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
  - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
  - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
  - *IfNotPresent*

- images.tags.bootstrap
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_drop
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
    - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu\_focal*
- images.tags.heat\_api
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.heat\_cfn
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.heat\_cloudwatch
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.heat\_db\_sync
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.heat\_engine
  - Type: string



- Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.heat\_engine\_cleaner
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.heat\_purge\_deleted
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
  - *docker.io/docker:17.07.0*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.rabbit\_init
  - Type: string
  - Description:
  - *docker.io/rabbitmq:3.13-management*
- images.tags.test
  - Type: string
  - Description:
  - *docker.io/xrally/xrally-openstack:2.0.0*

- jobs.engine\_cleaner.cron
  - Type: string
  - Description:
  - *\* / 5 \* \* \* \**
- jobs.engine\_cleaner.history.failed
  - Type: int
  - Description:
  - *1*
- jobs.engine\_cleaner.history.success
  - Type: int
  - Description:
  - *3*
- jobs.engine\_cleaner.starting\_deadline
  - Type: int
  - Description:
  - *600*
- jobs.purge\_deleted.cron
  - Type: string
  - Description:
  - *20 \* / 24 \* \* \**
- jobs.purge\_deleted.history.failed
  - Type: int
  - Description:
  - *1*
- jobs.purge\_deleted.history.success
  - Type: int
  - Description:
  - *3*
- jobs.purge\_deleted.purge\_age
  - Type: int
  - Description:
  - *60*
- labels.api.node\_selector\_key
  - Type: string

- Description:
  - *openstack-control-plane*
- labels.api.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.cfn.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.cfn.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.cloudwatch.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.cloudwatch.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.engine.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.engine.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.job.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*

- labels.job.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- manifests.certificates
  - Type: bool
  - Description:
    - *false*
- manifests.configmap\_bin
  - Type: bool
  - Description:
    - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
    - *true*
- manifests.cron\_job\_engine\_cleaner
  - Type: bool
  - Description:
    - *true*
- manifests.cron\_job\_purge\_deleted
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_api
  - Type: bool

- Description:
  - *true*
- manifests.deployment\_cfn
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_cloudwatch
  - Type: bool
  - Description:
  - *false*
- manifests.deployment\_engine
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_api
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_cfn
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_cloudwatch
  - Type: bool
  - Description:
  - *false*
- manifests.job\_bootstrap
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
  - *false*

- manifests.job\_db\_init
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user\_domain
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user\_trustee
  - Type: bool
  - Description:
    - *true*
- manifests.job\_rabbit\_init
  - Type: bool

- Description:
  - *true*
- manifests.network\_policy
  - Type: bool
  - Description:
  - *false*
- manifests.pdb\_api
  - Type: bool
  - Description:
  - *true*
- manifests.pdb\_cfn
  - Type: bool
  - Description:
  - *true*
- manifests.pdb\_cloudwatch
  - Type: bool
  - Description:
  - *false*
- manifests.pod\_rally\_test
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_ingress\_tls
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
  - *true*

- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_registry
  - Type: bool
  - Description:
    - *true*
- manifests.service\_api
  - Type: bool
  - Description:
    - *true*
- manifests.service\_cfn
  - Type: bool
  - Description:
    - *true*
- manifests.service\_cloudwatch
  - Type: bool
  - Description:
    - *false*
- manifests.service\_ingress\_api
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress\_cfn
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress\_cloudwatch
  - Type: bool
  - Description:
    - *false*
- manifests.statefulset\_engine
  - Type: bool



- Description:
  - *false*
- network.api.external\_policy\_local
  - Type: bool
  - Description:
  - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /
- network.api.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.api.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.api.ingress.public
  - Type: bool
  - Description:
  - *true*
- network.api.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.api.node\_port.port
  - Type: int
  - Description:
  - *30004*
- network.cfn.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /

- network.cfn.ingress.classes.cluster
  - Type: string
  - Description:
    - *nginx-cluster*
- network.cfn.ingress.classes.namespace
  - Type: string
  - Description:
    - *nginx*
- network.cfn.ingress.public
  - Type: bool
  - Description:
    - *true*
- network.cfn.node\_port.enabled
  - Type: bool
  - Description:
    - *false*
- network.cfn.node\_port.port
  - Type: int
  - Description:
    - *30800*
- network.cloudwatch.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
    - */*
- network.cloudwatch.ingress.classes.cluster
  - Type: string
  - Description:
    - *nginx-cluster*
- network.cloudwatch.ingress.classes.namespace
  - Type: string
  - Description:
    - *nginx*
- network.cloudwatch.ingress.public
  - Type: bool

- Description:
  - *true*
- network.cloudwatch.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.cloudwatch.node\_port.port
  - Type: int
  - Description:
  - *30003*
- network\_policy.heat.egress[0]
  - Type: object
  - Description:
  - *{}*
- network\_policy.heat.ingress[0]
  - Type: object
  - Description:
  - *{}*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
  - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.api.min\_available
  - Type: int
  - Description:
  - *0*

- pod.lifecycle.disruption\_budget.cfn.min\_available
  - Type: int
  - Description:
  - 0
- pod.lifecycle.disruption\_budget.cloudwatch.min\_available
  - Type: int
  - Description:
  - 0
- pod.lifecycle.termination\_grace\_period.api.timeout
  - Type: int
  - Description:
  - 30
- pod.lifecycle.termination\_grace\_period.cfn.timeout
  - Type: int
  - Description:
  - 30
- pod.lifecycle.termination\_grace\_period.cloudwatch.timeout
  - Type: int
  - Description:
  - 30
- pod.lifecycle.termination\_grace\_period.engine.timeout
  - Type: int
  - Description:
  - 30
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int

- Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - 1
- pod.mounts.heat\_api.heat\_api.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_api.heat\_api.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_api.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_bootstrap.heat\_bootstrap.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_bootstrap.heat\_bootstrap.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_bootstrap.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_cfn.heat\_cfn.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.heat\_cfn.heat\_cfn.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_cfn.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_cloudwatch.heat\_cloudwatch.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_cloudwatch.heat\_cloudwatch.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_cloudwatch.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_db\_sync.heat\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_db\_sync.heat\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_engine.heat\_engine.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_engine.heat\_engine.volumes
  - Type: string

- Description:
  - *nil*
- pod.mounts.heat\_engine.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_engine\_cleaner.heat\_engine\_cleaner.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_engine\_cleaner.heat\_engine\_cleaner.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_engine\_cleaner.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_purge\_deleted.heat\_purge\_deleted.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_purge\_deleted.heat\_purge\_deleted.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_purge\_deleted.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_tests.heat\_tests.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.heat\_tests.heat\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_trusts.heat\_trusts.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_trusts.heat\_trusts.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.heat\_trusts.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.replicas.api
  - Type: int
  - Description:
  - *1*
- pod.replicas.cfn
  - Type: int
  - Description:
  - *1*
- pod.replicas.cloudwatch
  - Type: int
  - Description:
  - *1*
- pod.replicas.engine
  - Type: int



- Description:
  - *1*
- pod.resources.api.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.api.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.api.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.api.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.cfn.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.cfn.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.cfn.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.cfn.requests.memory
  - Type: string
  - Description:
  - *128Mi*

- pod.resources.cloudwatch.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.cloudwatch.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.cloudwatch.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.cloudwatch.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.engine.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.engine.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.engine.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.engine.requests.memory
  - Type: string

- Description:
  - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.bootstrap.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
  - *128Mi*

- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.engine\_cleaner.limits.cpu
  - Type: string

- Description:
  - *2000m*
- pod.resources.jobs.engine\_cleaner.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.engine\_cleaner.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.engine\_cleaner.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu
  - Type: string
  - Description:
  - *2000m*

- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string

- Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.purge\_deleted.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.purge\_deleted.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.purge\_deleted.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.purge\_deleted.requests.memory
  - Type: string
  - Description:
  - *124Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*

- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.trusts.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.trusts.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.trusts.requests.cpu
  - Type: string



- Description:
  - *100m*
- pod.resources.jobs.trusts.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.security\_context.engine\_cleaner.container.heat\_engine\_cleaner.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.engine\_cleaner.container.heat\_engine\_cleaner.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.engine\_cleaner.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.heat.container.heat\_api.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.heat.container.heat\_api.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.heat.container.heat\_cfn.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.heat.container.heat\_cfn.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*

- pod.security\_context.heat.container.heat\_cloudwatch.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.heat.container.heat\_cloudwatch.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.heat.container.heat\_engine.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.heat.container.heat\_engine.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.heat.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.ks\_user.container.heat\_ks\_domain\_user.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.ks\_user.container.heat\_ks\_domain\_user.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.ks\_user.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.trusts.container.heat\_trusts.allowPrivilegeEscalation
  - Type: bool

- Description:
  - *false*
- pod.security\_context.trusts.container.heat\_trusts.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.trusts.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.tolerations.heat.enabled
  - Type: bool
  - Description:
  - *false*
- pod.tolerations.heat.tolerations[0].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.heat.tolerations[0].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/master*
- pod.tolerations.heat.tolerations[0].operator
  - Type: string
  - Description:
  - *Exists*
- pod.tolerations.heat.tolerations[1].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.heat.tolerations[1].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/control-plane*

- pod.tolerations.heat.tolerations[1].operator
  - Type: string
  - Description:
  - *Exists*
- release\_group
  - Type: string
  - Description:
  - *nil*
- secrets.identity.admin
  - Type: string
  - Description:
  - *heat-keystone-admin*
- secrets.identity.heat
  - Type: string
  - Description:
  - *heat-keystone-user*
- secrets.identity.heat\_stack\_user
  - Type: string
  - Description:
  - *heat-keystone-stack-user*
- secrets.identity.heat\_trustee
  - Type: string
  - Description:
  - *heat-keystone-trustee*
- secrets.identity.test
  - Type: string
  - Description:
  - *heat-keystone-test*
- secrets.oci\_image\_registry.heat
  - Type: string
  - Description:
  - *heat-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string

- Description:
  - *heat-db-admin*
- secrets.oslo\_db.heat
  - Type: string
  - Description:
  - *heat-db-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
  - *heat-rabbitmq-admin*
- secrets.oslo\_messaging.heat
  - Type: string
  - Description:
  - *heat-rabbitmq-user*
- secrets.tls.cloudformation.cfn.internal
  - Type: string
  - Description:
  - *heat-tls-cfn*
- secrets.tls.cloudformation.cfn.public
  - Type: string
  - Description:
  - *cloudformation-tls-public*
- secrets.tls.orchestration.api.internal
  - Type: string
  - Description:
  - *heat-tls-api*
- secrets.tls.orchestration.api.public
  - Type: string
  - Description:
  - *heat-tls-public*
- tls.identity
  - Type: bool
  - Description:
  - *false*

- `tls.oslo_db`
  - Type: `bool`
  - Description:
  - `false`
- `tls.oslo_messaging`
  - Type: `bool`
  - Description:
  - `false`

## 3.9 Horizon

There are various customizations you can do to tailor the deployment of OpenStack Horizon. You can find those below.

### 3.9.1 General Parameters

- `conf.horizon.apache`
  - Type: `string`
  - Description:

```

- <IfVersion < 2.4>
Listen 0.0.0.0:{{ tuple `dashboard` `internal` `web` . |_
↪include `helm-toolkit.endpoints.endpoint_port_lookup` }}
</IfVersion>
LogFormat "%h %l %u %t %r" "%s %b \"%{Referer}i\"" \"%
↪{User-Agent}i\"" combined
LogFormat "%{X-Forwarded-For}i %l %u %t %r" "%s %b \"%
↪{Referer}i\"" \"%{User-Agent}i\"" proxy

SetEnvIf X-Forwarded-For "^.*\\..*\\..*\\..*" forwarded
CustomLog /dev/stdout combined env=!forwarded
CustomLog /dev/stdout proxy env=forwarded

<VirtualHost *:{{ tuple `dashboard` `internal` `web` . |_
↪include `helm-toolkit.endpoints.endpoint_port_lookup` }}>
 WSGIApplicationGroup %{GLOBAL}
 WSGIScriptReloading On
 WSGIDaemonProcess horizon-http processes=5 threads=1_
↪user=horizon group=horizon display-name=%{GROUP}
 WSGIProcessGroup horizon-http
 WSGIScriptAlias / /var/www/cgi-bin/horizon/django.wsgi
 WSGIPassAuthorization On
 RewriteEngine on
 RewriteCond %{REQUEST_METHOD} !^(POST|PUT|GET|DELETE|PATCH)
 RewriteRule .* - [F]

```

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```
<Location /\>
 Require all granted
</Location>

Alias /static /var/www/html/horizon
<Location \"/static">
 SetHandler static
</Location>

<IfVersion >= 2.4>
 ErrorLogFormat "%{cu}t %M\"
</IfVersion>
ErrorLog /dev/stdout
TransferLog /dev/stdout

SetEnvIf X-Forwarded-For \"^.*\\..*\\..*\\..*\" forwarded
CustomLog /dev/stdout combined env=!forwarded
CustomLog /dev/stdout proxy env=forwarded
</Virtualhost>
```

- `conf.horizon.branding.favicon`
  - Type: string
  - Description:
  - *nil*
- `conf.horizon.branding.logo`
  - Type: string
  - Description:
  - *nil*
- `conf.horizon.branding.logo_splash`
  - Type: string
  - Description:
  - *nil*
- `conf.horizon.custom_panels`
  - Type: object
  - Description:
  - `{}`
- `conf.horizon.extra_panels[0]`
  - Type: string
  - Description:
  - *heat\_dashboard*

- `conf.horizon.extra_panels[1]`
  - Type: string
  - Description:
    - *neutron\_taaS\_dashboard*
- `conf.horizon.local_settings.config.allowed_hosts[0]`
  - Type: string
  - Description:
    - \*
- `conf.horizon.local_settings.config.auth.idp_mapping[0].idp`
  - Type: string
  - Description:
    - *myidp1*
- `conf.horizon.local_settings.config.auth.idp_mapping[0].label`
  - Type: string
  - Description:
    - *Acme Corporation - OpenID Connect*
- `conf.horizon.local_settings.config.auth.idp_mapping[0].name`
  - Type: string
  - Description:
    - *acme\_oidc*
- `conf.horizon.local_settings.config.auth.idp_mapping[0].protocol`
  - Type: string
  - Description:
    - *oidc*
- `conf.horizon.local_settings.config.auth.idp_mapping[1].idp`
  - Type: string
  - Description:
    - *myidp2*
- `conf.horizon.local_settings.config.auth.idp_mapping[1].label`
  - Type: string
  - Description:
    - *Acme Corporation - SAML2*
- `conf.horizon.local_settings.config.auth.idp_mapping[1].name`
  - Type: string



- Description:
  - *acme\_saml2*
- `conf.horizon.local_settings.config.auth.idp_mapping[1].protocol`
  - Type: string
  - Description:
  - *saml2*
- `conf.horizon.local_settings.config.auth.sso.enabled`
  - Type: bool
  - Description:
  - *false*
- `conf.horizon.local_settings.config.auth.sso.initial_choice`
  - Type: string
  - Description:
  - *credentials*
- `conf.horizon.local_settings.config.csrf_cookie_httponly`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.csrf_cookie_secure`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.csrf_trusted_origins`
  - Type: list
  - Description:
  - *[]*
- `conf.horizon.local_settings.config.debug`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.disable_password_reveal`
  - Type: string
  - Description:
  - *True*

- `conf.horizon.local_settings.config.disallow_iframe_embed`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.enable_pwd_validator`
  - Type: bool
  - Description:
  - *false*
- `conf.horizon.local_settings.config.endpoint_type`
  - Type: string
  - Description:
  - *internalURL*
- `conf.horizon.local_settings.config.enforce_password_check`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.horizon_images_upload_mode`
  - Type: string
  - Description:
  - *legacy*
- `conf.horizon.local_settings.config.horizon_secret_key`
  - Type: string
  - Description:
  - *9aee62c0-5253-4a86-b189-e0fb71fa503c*
- `conf.horizon.local_settings.config.keystone_default_domain`
  - Type: string
  - Description:
  - *Default*
- `conf.horizon.local_settings.config.keystone_multidomain_support`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.log_level`
  - Type: string

- Description:
  - *DEBUG*
- `conf.horizon.local_settings.config.openstack_api_versions.container_infra`
  - Type: string
  - Description:
  - *1.10*
- `conf.horizon.local_settings.config.openstack_cinder_features.enable_backup`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.openstack_enable_password_retrieve`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_distributed_router`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_fip_topology_check`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_firewall`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_ha_router`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_ipv6`
  - Type: string
  - Description:
  - *True*

- `conf.horizon.local_settings.config.openstack_neutron_network.enable_lb`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_quotas`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_router`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.openstack_neutron_network.enable_vpn`
  - Type: string
  - Description:
  - *True*
- `conf.horizon.local_settings.config.password_autocomplete`
  - Type: string
  - Description:
  - *False*
- `conf.horizon.local_settings.config.pwd_validator_help_text`
  - Type: string
  - Description:
  - *\_(*"Your password must be at least eight (8) characters in length and must include characters from at least two (2) of these groupings: alpha, numeric, and special characters."*)*
- `conf.horizon.local_settings.config.pwd_validator_regex`
  - Type: string
  - Description:
  - *(?=.\*[a-zA-Z])(?=.\*\d){8,}|(?=.\*\d)(?=.\*\W){8,}|(?=.\*\W)(?=.\*[a-zA-Z]){8,}*
- `conf.horizon.local_settings.config.raw`
  - Type: object
  - Description:
  - *{}*
- `conf.horizon.local_settings.config.secure_proxy_ssl_header`
  - Type: bool

- Description:
- *false*
- conf.horizon.local\_settings.config.session\_cookie\_httponly
  - Type: string
  - Description:
  - *False*
- conf.horizon.local\_settings.config.session\_cookie\_secure
  - Type: string
  - Description:
  - *False*
- conf.horizon.local\_settings.config.show\_openrc\_file
  - Type: string
  - Description:
  - *True*
- conf.horizon.local\_settings.config.use\_ssl
  - Type: string
  - Description:
  - *False*
- conf.horizon.local\_settings.template
  - Type: string
  - Description:

```

- import os

from django.utils.translation import gettext_lazy as _

from openstack_dashboard import exceptions

DEBUG = {{ .Values.conf.horizon.local_settings.config.debug }}
TEMPLATE_DEBUG = DEBUG

COMPRESS_OFFLINE = True
COMPRESS_CSS_HASHING_METHOD = \"hash\"

WEBROOT is the location relative to Webserver root
should end with a slash.
WEBROOT = '/'
LOGIN_URL = WEBROOT + 'auth/login/'
LOGOUT_URL = WEBROOT + 'auth/logout/'
#
LOGIN_REDIRECT_URL can be used as an alternative for

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HORIZON_CONFIG.user_home, if user_home is not set.
Do not set it to '/home/', as this will cause circular redirect_
↳ loop
LOGIN_REDIRECT_URL = WEBROOT

Required for Django 1.5.
If horizon is running in production (DEBUG is False), set this
with the list of host/domain names that the application can serve.
For more information see:
https://docs.djangoproject.com/en/dev/ref/settings/#allowed-hosts
ALLOWED_HOSTS = [{{ include \"helm-toolkit.utils.
↳ joinListWithCommaAndSingleQuotes\" .Values.conf.horizon.local_
↳ settings.config.allowed_hosts }}, '%s' % (os.environ.get(\"MY_POD_
↳ IP\"))]

Set SSL proxy settings:
For Django 1.4+ pass this header from the proxy after terminating_
↳ the SSL,
and don't forget to strip it from the client's request.
For more information see:
https://docs.djangoproject.com/en/1.4/ref/settings/#secure-proxy-
↳ ssl-header
#SECURE_PROXY_SSL_HEADER = ('HTTP_X_FORWARDED_PROTOCOL', 'https')
https://docs.djangoproject.com/en/1.5/ref/settings/#secure-proxy-
↳ ssl-header
{{- if .Values.conf.horizon.local_settings.config.secure_proxy_ssl_
↳ header }}
SECURE_PROXY_SSL_HEADER = ('HTTP_X_FORWARDED_PROTO', 'https')
{{- end }}

If Horizon is being served through SSL, then uncomment the_
↳ following two
settings to better secure the cookies from security exploits
USE_SSL = {{ .Values.conf.horizon.local_settings.config.use_ssl }}
CSRF_COOKIE_SECURE = {{ .Values.conf.horizon.local_settings.config.
↳ csrf_cookie_secure }}
CSRF_COOKIE_HTTPONLY = {{ .Values.conf.horizon.local_settings.config.
↳ csrf_cookie_httponly }}
SESSION_COOKIE_SECURE = {{ .Values.conf.horizon.local_settings.
↳ config.session_cookie_secure }}

SESSION_COOKIE_HTTPONLY = {{ .Values.conf.horizon.local_settings.
↳ config.session_cookie_httponly }}

https://docs.djangoproject.com/en/dev/ref/settings/#csrf-trusted-
↳ origins
CSRF_TRUSTED_ORIGINS = [{{ include \"helm-toolkit.utils.
↳ joinListWithCommaAndSingleQuotes\" .Values.conf.horizon.local_
↳ settings.config.csrf_trusted_origins }}]

```

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Overrides for OpenStack API versions. Use this setting to force the
OpenStack dashboard to use a specific API version for a given
↳service API.
Versions specified here should be integers or floats, not strings.
NOTE: The version should be formatted as it appears in the URL for
↳the
↳service API. For example, The identity service APIs have
↳inconsistent
use of the decimal point, so valid options would be 2.0 or 3.
#OPENSTACK_API_VERSIONS = {
\"data-processing\": 1.1,
\"identity\": 3,
\"volume\": 2,
#}

OPENSTACK_API_VERSIONS = {
 \"identity\": 3,
 \"container-infra\": \"{{ .Values.conf.horizon.local_settings.
↳config.openstack_api_versions.container_infra }}\"
}

Set this to True if running on multi-domain model. When this is
↳enabled, it
will require user to enter the Domain name in addition to username
↳for login.
OPENSTACK_KEYSTONE_MULTIDOMAIN_SUPPORT = {{ .Values.conf.horizon.
↳local_settings.config.keystone_multidomain_support }}

Overrides the default domain used when running on single-domain
↳model
with Keystone V3. All entities will be created in the default
↳domain.
OPENSTACK_KEYSTONE_DEFAULT_DOMAIN = '{{ .Values.conf.horizon.local_
↳settings.config.keystone_default_domain }}'

Set Console type:
valid options are \"AUTO\"(default), \"VNC\", \"SPICE\", \"RDP\",
↳\"SERIAL\" or None
Set to None explicitly if you want to deactivate the console.
#CONSOLE_TYPE = \"AUTO\"

Default OpenStack Dashboard configuration.
HORIZON_CONFIG = {
 'user_home': 'openstack_dashboard.views.get_user_home',
 'ajax_queue_limit': 10,
 'auto_fade_alerts': {
 'delay': 3000,
 'fade_duration': 1500,

```

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 'types': ['alert-success', 'alert-info']
 },
 'help_url': \"http://docs.openstack.org\",
 'exceptions': {'recoverable': exceptions.RECOVERABLE,
 'not_found': exceptions.NOT_FOUND,
 'unauthorized': exceptions.UNAUTHORIZED},
 'modal_backdrop': 'static',
 'angular_modules': [],
 'js_files': [],
 'js_spec_files': [],
}

{{- if .Values.conf.horizon.local_settings.config.enable_pwd_
↪validator }}
Specify a regular expression to validate user passwords.
HORIZON_CONFIG[\"password_validator\"] = {
 \"regex\": '{{ .Values.conf.horizon.local_settings.config.pwd_
↪validator_regex }}',
 \"help_text\": '{{ .Values.conf.horizon.local_settings.config.pwd_
↪validator_help_text }}',
}
{{- end }}

Disable simplified floating IP address management for deployments.
↪with
multiple floating IP pools or complex network requirements.
#HORIZON_CONFIG[\"simple_ip_management\"] = False

Turn off browser autocompletion for forms including the login form.
↪and
the database creation workflow if so desired.
HORIZON_CONFIG[\"password_autocomplete\"] = '{{ .Values.conf.horizon.
↪local_settings.config.password_autocomplete }}'

Setting this to True will disable the reveal button for password.
↪fields,
including on the login form.
HORIZON_CONFIG[\"disable_password_reveal\"] = '{{ .Values.conf.
↪horizon.local_settings.config.disable_password_reveal }}'

LOCAL_PATH = '/tmp'

Set custom secret key:
You can either set it to a specific value or you can let horizon.
↪generate a
default secret key that is unique on this machine, e.i. regardless.
↪of the
amount of Python WSGI workers (if used behind Apache+mod_wsgi):.
↪However,

```

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```

there may be situations where you would want to set this
↳ explicitly, e.g.
when multiple dashboard instances are distributed on different
↳ machines
(usually behind a load-balancer). Either you have to make sure
↳ that a session
gets all requests routed to the same dashboard instance or you set
↳ the same
SECRET_KEY for all of them.
SECRET_KEY='{{ .Values.conf.horizon.local_settings.config.horizon_
↳ secret_key }}'

CACHES = {
 'default': {
 'BACKEND': 'django.core.cache.backends.memcached.
↳ PyMemcacheCache',
 'LOCATION': '{{ tuple "oslo_cache" "internal" "memcache\
↳ " . | include "helm-toolkit.endpoints.host_and_port_endpoint_uri_
↳ lookup" }}',
 }
}
DATABASES = {
 'default': {
 # Database configuration here
 'ENGINE': 'django.db.backends.mysql',
 'NAME': '{{ .Values.endpoints.oslo_db.path | base }}',
 'USER': '{{ .Values.endpoints.oslo_db.auth.horizon.username }
↳ }',
 'PASSWORD': '{{ .Values.endpoints.oslo_db.auth.horizon.
↳ password }}',
 'HOST': '{{ tuple "oslo_db" "internal" . | include \
↳ "helm-toolkit.endpoints.hostname_fqdn_endpoint_lookup" }}',
 'default-character-set': 'utf8',
 {{- if .Values.manifests.certificates }}
 'OPTIONS':{
 'ssl': {
 'ca': '/etc/mysql/certs/ca.crt',
 'cert': '/etc/mysql/certs/tls.crt',
 'key': '/etc/mysql/certs/tls.key'
 }
 },
 {{- end }}
 'PORT': '{{ tuple "oslo_db" "internal" "mysql" . |
↳ include "helm-toolkit.endpoints.endpoint_port_lookup" }}'
 }
}
SESSION_ENGINE = 'django.contrib.sessions.backends.cached_db'

Send email to the console by default

```

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EMAIL_BACKEND = 'django.core.mail.backends.console.EmailBackend'
Or send them to /dev/null
#EMAIL_BACKEND = 'django.core.mail.backends.dummy.EmailBackend'

Configure these for your outgoing email host
#EMAIL_HOST = 'smtp.my-company.com'
#EMAIL_PORT = 25\\
#EMAIL_HOST_USER = 'djangomail'
#EMAIL_HOST_PASSWORD = 'top-secret!'

For multiple regions uncomment this configuration, and add
↪(endpoint, title).
#AVAILABLE_REGIONS = [
('http://cluster1.example.com:5000/v2.0', 'cluster1'),
('http://cluster2.example.com:5000/v2.0', 'cluster2'),
#]

OPENSTACK_KEYSTONE_URL = \{"{ tuple \"identity\" \"internal\" \"api\"
↪ . | include \"helm-toolkit.endpoints.keystone_endpoint_uri_
↪lookup\" }}\"
OPENSTACK_KEYSTONE_DEFAULT_ROLE = \"member\"

This setting specifies the name of the header with remote IP
↪address. If not present,
then REMOTE_ADDR header is used. The common value for this setting
↪is HTTP_X_REAL_IP
or HTTP_X_FORWARDED_FORx
SECURE_PROXY_ADDR_HEADER = 'HTTP_X_FORWARDED_FOR'

{{- if .Values.conf.horizon.local_settings.config.auth.sso.enabled }}
Enables keystone web single-sign-on if set to True.
WEBSSO_ENABLED = True

Determines which authentication choice to show as default.
WEBSSO_INITIAL_CHOICE = \{"{ .Values.conf.horizon.local_settings.
↪config.auth.sso.initial_choice }}\"

{{- if .Values.conf.horizon.local_settings.config.auth.sso.websso_
↪keystone_url }}
The full auth URL for the Keystone endpoint used for web single-
↪sign-on authentication.
WEBSSO_KEYSTONE_URL = \{"{ .Values.conf.horizon.local_settings.
↪config.auth.sso.websso_keystone_url }}\"
{{- end }}

The list of authentication mechanisms
which include keystone federation protocols.
Current supported protocol IDs are 'saml2' and 'oidc'
which represent SAML 2.0, OpenID Connect respectively.

```

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```

Do not remove the mandatory credentials mechanism.
WEBSO_CHOICES = (
 ("credentials", _("Keystone Credentials")),
 {{- range $i, $sso := .Values.conf.horizon.local_settings.config.
↪auth.idp_mapping }}
 ({{ $sso.name | quote }}, {{ $sso.label | quote }}),
 {{- end }}
)

WEBSO_IDP_MAPPING = {
 {{- range $i, $sso := .Values.conf.horizon.local_settings.config.
↪auth.idp_mapping }}
 ({{ $sso.name | quote }}: ({{ $sso.idp | quote }}, {{ $sso.
↪protocol | quote }}),
 {{- end }}
}

{{- end }}

Disable SSL certificate checks (useful for self-signed
↪certificates):
#OPENSTACK_SSL_NO_VERIFY = True

{{- if .Values.manifests.certificates }}
The CA certificate to use to verify SSL connections
OPENSTACK_SSL_CACERT = '/etc/openstack-dashboard/certs/ca.crt'
{{- end }}

The OPENSTACK_KEYSTONE_BACKEND settings can be used to identify the
capabilities of the auth backend for Keystone.
If Keystone has been configured to use LDAP as the auth backend
↪then set
can_edit_user to False and name to 'ldap'.
#
TODO(tres): Remove these once Keystone has an API to identify auth
↪backend.
OPENSTACK_KEYSTONE_BACKEND = {
 'name': 'native',
 'can_edit_user': True,
 'can_edit_group': True,
 'can_edit_project': True,
 'can_edit_domain': True,
 'can_edit_role': True,
}

Setting this to True, will add a new "Retrieve Password" action
↪on instance,
allowing Admin session password retrieval/decryption.
OPENSTACK_ENABLE_PASSWORD_RETRIEVE = {{ .Values.conf.horizon.local_

```

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```

↪ settings.config.openstack_enable_password_retrieve }}
Controls whether the keystone openrc file is accessible from the
↪ user menu and the api access panel.
SHOW_OPENRC_FILE = {{ .Values.conf.horizon.local_settings.config.
↪ show_openrc_file }}
The Launch Instance user experience has been significantly
↪ enhanced.
You can choose whether to enable the new launch instance
↪ experience,
the legacy experience, or both. The legacy experience will be
↪ removed
in a future release, but is available as a temporary backup
↪ setting to ensure
compatibility with existing deployments. Further development will
↪ not be
done on the legacy experience. Please report any problems with the
↪ new
experience via the StoryBoard tracking system.
#
Toggle LAUNCH_INSTANCE_LEGACY_ENABLED and LAUNCH_INSTANCE_NG_
↪ ENABLED to
determine the experience to enable. Set them both to true to
↪ enable
both.
#LAUNCH_INSTANCE_LEGACY_ENABLED = True
#LAUNCH_INSTANCE_NG_ENABLED = False

The Xen Hypervisor has the ability to set the mount point for
↪ volumes
attached to instances (other Hypervisors currently do not). Setting
can_set_mount_point to True will add the option to set the mount
↪ point
from the UI.
OPENSTACK_HYPERVISOR_FEATURES = {
 'can_set_mount_point': False,
 'can_set_password': False,
}

The OPENSTACK_CINDER_FEATURES settings can be used to enable
↪ optional
services provided by cinder that is not exposed by its extension
↪ API.
OPENSTACK_CINDER_FEATURES = {
 'enable_backup': {{ .Values.conf.horizon.local_settings.config.
↪ openstack_cinder_features.enable_backup }},
}

The OPENSTACK_NEUTRON_NETWORK settings can be used to enable
↪ optional

```

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```

services provided by neutron. Options currently available are load
balancer service, security groups, quotas, VPN service.
OPENSTACK_NEUTRON_NETWORK = {
 'enable_router': {{ .Values.conf.horizon.local_settings.config.
↪openstack_neutron_network.enable_router }},
 'enable_quotas': {{ .Values.conf.horizon.local_settings.config.
↪openstack_neutron_network.enable_quotas }},
 'enable_ipv6': {{ .Values.conf.horizon.local_settings.config.
↪openstack_neutron_network.enable_ipv6 }},
 'enable_distributed_router': {{ .Values.conf.horizon.local_
↪settings.config.openstack_neutron_network.enable_distributed_
↪router }},
 'enable_ha_router': {{ .Values.conf.horizon.local_settings.
↪config.openstack_neutron_network.enable_ha_router }},
 'enable_lb': {{ .Values.conf.horizon.local_settings.config.
↪openstack_neutron_network.enable_lb }},
 'enable_firewall': {{ .Values.conf.horizon.local_settings.config.
↪openstack_neutron_network.enable_firewall }},
 'enable_vpn': {{ .Values.conf.horizon.local_settings.config.
↪openstack_neutron_network.enable_vpn }},
 'enable_fip_topology_check': {{ .Values.conf.horizon.local_
↪settings.config.openstack_neutron_network.enable_fip_topology_
↪check }},

 # The profile_support option is used to detect if an external_
↪router can be
 # configured via the dashboard. When using specific plugins the
 # profile_support can be turned on if needed.
 'profile_support': None,
 #'profile_support': 'cisco',

 # Set which provider network types are supported. Only the_
↪network types
 # in this list will be available to choose from when creating a_
↪network.
 # Network types include local, flat, vlan, gre, and vxlan.
 'supported_provider_types': ['*'],

 # Set which VNIC types are supported for port binding. Only the_
↪VNIC
 # types in this list will be available to choose from when_
↪creating a
 # port.
 # VNIC types include 'normal', 'macvtap' and 'direct'.
 'supported_vnic_types': ['*']
}

The OPENSTACK_IMAGE_BACKEND settings can be used to customize_
↪features

```

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```

in the OpenStack Dashboard related to the Image service, such as
↳ the list
of supported image formats.
#OPENSTACK_IMAGE_BACKEND = {
'image_formats': [
('', _('Select format')),
('aki', _('AKI - Amazon Kernel Image')),
('ami', _('AMI - Amazon Machine Image')),
('ari', _('ARI - Amazon Ramdisk Image')),
('docker', _('Docker')),
('iso', _('ISO - Optical Disk Image')),
('ova', _('OVA - Open Virtual Appliance')),
('qcow2', _('QCOW2 - QEMU Emulator')),
('raw', _('Raw')),
('vdi', _('VDI - Virtual Disk Image')),
('vhd', _('VHD - Virtual Hard Disk')),
('vmdk', _('VMDK - Virtual Machine Disk')),
]
#}

The IMAGE_CUSTOM_PROPERTY_TITLES settings is used to customize the
↳ titles for
image custom property attributes that appear on image detail pages.
IMAGE_CUSTOM_PROPERTY_TITLES = {
 \"architecture\": _(\"Architecture\"),
 \"kernel_id\": _(\"Kernel ID\"),
 \"ramdisk_id\": _(\"Ramdisk ID\"),
 \"image_state\": _(\"Euca2ools state\"),
 \"project_id\": _(\"Project ID\"),
 \"image_type\": _(\"Image Type\"),
}

The IMAGE_RESERVED_CUSTOM_PROPERTIES setting is used to specify
↳ which image
custom properties should not be displayed in the Image Custom
↳ Properties
table.
IMAGE_RESERVED_CUSTOM_PROPERTIES = []

Set to 'legacy' or 'direct' to allow users to upload images to
↳ glance via
Horizon server. When enabled, a file form field will appear on the
↳ create
image form. If set to 'off', there will be no file form field on
↳ the create
image form. See documentation for deployment considerations.
HORIZON_IMAGES_UPLOAD_MODE = '{{ .Values.config.horizon.local_settings.
↳ config.horizon_images_upload_mode }}'

```

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```
OPENSTACK_ENDPOINT_TYPE specifies the endpoint type to use for the
↳ endpoints
in the Keystone service catalog. Use this setting when Horizon is
↳ running
external to the OpenStack environment. The default is 'publicURL'.
OPENSTACK_ENDPOINT_TYPE = \${{ .Values.conf.horizon.local_settings.
↳ config.endpoint_type }}\

SECONDARY_ENDPOINT_TYPE specifies the fallback endpoint type to
↳ use in the
case that OPENSTACK_ENDPOINT_TYPE is not present in the endpoints
in the Keystone service catalog. Use this setting when Horizon is
↳ running
external to the OpenStack environment. The default is None. This
value should differ from OPENSTACK_ENDPOINT_TYPE if used.
SECONDARY_ENDPOINT_TYPE = "publicURL"

The number of objects (Swift containers/objects or images) to
↳ display
on a single page before providing a paging element (a "more"
↳ link)
to paginate results.
API_RESULT_LIMIT = 1000
API_RESULT_PAGE_SIZE = 20

The size of chunk in bytes for downloading objects from Swift
SWIFT_FILE_TRANSFER_CHUNK_SIZE = 512 * 1024

Specify a maximum number of items to display in a dropdown.
DROPDOWN_MAX_ITEMS = 30

The timezone of the server. This should correspond with the
↳ timezone
of your entire OpenStack installation, and hopefully be in UTC.
TIME_ZONE = "UTC"

When launching an instance, the menu of available flavors is
sorted by RAM usage, ascending. If you would like a different sort
↳ order,
you can provide another flavor attribute as sorting key.
↳ Alternatively, you
can provide a custom callback method to use for sorting. You can
↳ also provide
a flag for reverse sort. For more info, see
http://docs.python.org/2/library/functions.html#sorted
CREATE_INSTANCE_FLAVOR_SORT = {
'key': 'name',
or
'key': my_awesome_callback_method,
```

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```
'reverse': False,
#}

Set this to True to display an 'Admin Password' field on the
↪Change Password
form to verify that it is indeed the admin logged-in who wants to
↪change
the password.
ENFORCE_PASSWORD_CHECK = {{ .Values.conf.horizon.local_settings.
↪config.enforce_password_check }}

Modules that provide /auth routes that can be used to handle
↪different types
of user authentication. Add auth plugins that require extra route
↪handling to
this list.
#AUTHENTICATION_URLS = [
'openstack_auth.urls',
#]

The Horizon Policy Enforcement engine uses these values to load
↪per service
policy rule files. The content of these files should match the
↪files the
OpenStack services are using to determine role based access
↪control in the
target installation.

Path to directory containing policy.yaml files
POLICY_FILES_PATH = '/etc/openstack-dashboard'
Map of local copy of service policy files
#POLICY_FILES = {
'identity': 'keystone_policy.yaml',
'compute': 'nova_policy.yaml',
'volume': 'cinder_policy.yaml',
'image': 'glance_policy.yaml',
'orchestration': 'heat_policy.yaml',
'network': 'neutron_policy.yaml',
'telemetry': 'ceilometer_policy.yaml',
#}

Trove user and database extension support. By default support for
creating users and databases on database instances is turned on.
To disable these extensions set the permission here to something
unusable such as [\"!\"].
TROVE_ADD_USER_PERMS = []
TROVE_ADD_DATABASE_PERMS = []

Change this patch to the appropriate static directory containing
```

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```

two files: _variables.scss and _styles.scss
#CUSTOM_THEME_PATH = 'static/themes/default'

LOGGING = {
 'version': 1,
 # When set to True this will disable all logging except
 # for loggers specified in this configuration dictionary. Note
 ↪that
 # if nothing is specified here and disable_existing_loggers is
 ↪True,
 # django.db.backends will still log unless it is disabled
 ↪explicitly.
 'disable_existing_loggers': False,
 'handlers': {
 'null': {
 'level': 'DEBUG',
 'class': 'logging.NullHandler',
 },
 'console': {
 # Set the level to "DEBUG" for verbose output logging.
 'level': 'INFO',
 'class': 'logging.StreamHandler',
 },
 },
 'loggers': {
 # Logging from django.db.backends is VERY verbose, send to
 ↪null
 # by default.
 'django.db.backends': {
 'handlers': ['null'],
 'propagate': False,
 },
 'requests': {
 'handlers': ['null'],
 'propagate': False,
 },
 'horizon': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config
 ↪log_level }}',
 'propagate': False,
 },
 'openstack_dashboard': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config
 ↪log_level }}',
 'propagate': False,
 },
 'novaclient': {

```

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```
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'cinderclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'glanceclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'glanceclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'neutronclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'heatclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'ceilometerclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'troveclient': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'swiftclient': {
 'handlers': ['console'],
```

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```

 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'openstack_auth': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'nose.plugins.manager': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'django': {
 'handlers': ['console'],
 'level': '{{ .Values.conf.horizon.local_settings.config.
↪log_level }}',
 'propagate': False,
 },
 'iso8601': {
 'handlers': ['null'],
 'propagate': False,
 },
 'scss': {
 'handlers': ['null'],
 'propagate': False,
 },
}
}

'direction' should not be specified for all_tcp/udp/icmp.
It is specified in the form.
SECURITY_GROUP_RULES = {
 'all_tcp': {
 'name': _('All TCP'),
 'ip_protocol': 'tcp',
 'from_port': '1',
 'to_port': '65535',
 },
 'all_udp': {
 'name': _('All UDP'),
 'ip_protocol': 'udp',
 'from_port': '1',
 'to_port': '65535',
 },
 'all_icmp': {

```

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```
 'name': _('All ICMP'),
 'ip_protocol': 'icmp',
 'from_port': '-1',
 'to_port': '-1',
 },
 'ssh': {
 'name': 'SSH',
 'ip_protocol': 'tcp',
 'from_port': '22',
 'to_port': '22',
 },
 'smtp': {
 'name': 'SMTP',
 'ip_protocol': 'tcp',
 'from_port': '25',
 'to_port': '25',
 },
 'dns': {
 'name': 'DNS',
 'ip_protocol': 'tcp',
 'from_port': '53',
 'to_port': '53',
 },
 'http': {
 'name': 'HTTP',
 'ip_protocol': 'tcp',
 'from_port': '80',
 'to_port': '80',
 },
 'pop3': {
 'name': 'POP3',
 'ip_protocol': 'tcp',
 'from_port': '110',
 'to_port': '110',
 },
 'imap': {
 'name': 'IMAP',
 'ip_protocol': 'tcp',
 'from_port': '143',
 'to_port': '143',
 },
 'ldap': {
 'name': 'LDAP',
 'ip_protocol': 'tcp',
 'from_port': '389',
 'to_port': '389',
 },
 'https': {
 'name': 'HTTPS',
```

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```
'ip_protocol': 'tcp',
'from_port': '443',
'to_port': '443',
},
'smtps': {
'name': 'SMTPS',
'ip_protocol': 'tcp',
'from_port': '465',
'to_port': '465',
},
'imaps': {
'name': 'IMAPS',
'ip_protocol': 'tcp',
'from_port': '993',
'to_port': '993',
},
'pop3s': {
'name': 'POP3S',
'ip_protocol': 'tcp',
'from_port': '995',
'to_port': '995',
},
'ms_sql': {
'name': 'MS SQL',
'ip_protocol': 'tcp',
'from_port': '1433',
'to_port': '1433',
},
'mysql': {
'name': 'MYSQL',
'ip_protocol': 'tcp',
'from_port': '3306',
'to_port': '3306',
},
'rdp': {
'name': 'RDP',
'ip_protocol': 'tcp',
'from_port': '3389',
'to_port': '3389',
},
}

Deprecation Notice:
#
The setting FLAVOR_EXTRA_KEYS has been deprecated.
Please load extra spec metadata into the Glance Metadata_
↪ Definition Catalog.
#
The sample quota definitions can be found in:
```

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```
<glance_source>/etc/metadefs/compute-quota.json
#
The metadata definition catalog supports CLI and API:
$glance --os-image-api-version 2 help md-namespace-import
$glance-manage db_load_metadefs <directory_with_definition_files>
#
See Metadata Definitions on: https://docs.openstack.org/glance/
↳latest/

Indicate to the Sahara data processing service whether or not
automatic floating IP allocation is in effect. If it is not
in effect, the user will be prompted to choose a floating IP
pool for use in their cluster. False by default. You would want
to set this to True if you were running Nova Networking with
auto_assign_floating_ip = True.
#SAHARA_AUTO_IP_ALLOCATION_ENABLED = False

The hash algorithm to use for authentication tokens. This must
match the hash algorithm that the identity server and the
auth_token middleware are using. Allowed values are the
algorithms supported by Python's hashlib library.
#OPENSTACK_TOKEN_HASH_ALGORITHM = 'md5'

AngularJS requires some settings to be made available to
the client side. Some settings are required by in-tree / built-in_
↳horizon
features. These settings must be added to REST_API_REQUIRED_
↳SETTINGS in the
form of ['SETTING_1','SETTING_2'], etc.
#
You may remove settings from this list for security purposes, but_
↳do so at
the risk of breaking a built-in horizon feature. These settings_
↳are required
for horizon to function properly. Only remove them if you know_
↳what you
are doing. These settings may in the future be moved to be defined_
↳within
the enabled panel configuration.
You should not add settings to this list for out of tree_
↳extensions.
See: https://wiki.openstack.org/wiki/Horizon/RESTAPI
REST_API_REQUIRED_SETTINGS = ['OPENSTACK_HYPERVERSOR_FEATURES',
 'LAUNCH_INSTANCE_DEFAULTS',
 'OPENSTACK_IMAGE_FORMATS']

Additional settings can be made available to the client side for
extensibility by specifying them in REST_API_ADDITIONAL_SETTINGS
!! Please use extreme caution as the settings are transferred via_
```

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```

↪HTTP/S
and are not encrypted on the browser. This is an experimental API.
↪and
may be deprecated in the future without notice.
#REST_API_ADDITIONAL_SETTINGS = []

DISALLOW_IFRAME_EMBED can be used to prevent Horizon from being
↪embedded
within an iframe. Legacy browsers are still vulnerable to a Cross-
↪Frame
Scripting (XFS) vulnerability, so this option allows extra
↪security hardening
where iframes are not used in deployment. Default setting is True.
For more information see:
http://tinyurl.com/anticlickjack
DISALLOW_IFRAME_EMBED = {{ .Values.conf.horizon.local_settings.
↪config.disallow_iframe_embed }}

STATIC_ROOT = '/var/www/html/horizon'

{{- range $option, $value := .Values.conf.horizon.local_settings.
↪config.raw }}
{{ $option }} = {{ toJson $value }}
{{- end }}

```

- `conf.horizon.local_settings_d`
  - Type: object
  - Description:
  - {}
- `conf.horizon.policy.ceilometer.context_is_admin`
  - Type: string
  - Description:
  - *role:admin*
- `conf.horizon.policy.ceilometer.context_is_owner`
  - Type: string
  - Description:
  - *user\_id:%(target.user\_id)s*
- `conf.horizon.policy.ceilometer.context_is_project`
  - Type: string
  - Description:
  - *project\_id:%(target.project\_id)s*
- `conf.horizon.policy.ceilometer.segregation`

- Type: string
  - Description:
    - *rule:context\_is\_admin*
- conf.horizon.policy.heat.actions:action
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.build\_info:build\_info
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:CancelUpdateStack
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:CreateStack
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation>DeleteStack
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:DescribeStackEvents
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:DescribeStackResource
  - Type: string
  - Description:
    -
- conf.horizon.policy.heat.cloudformation:DescribeStackResources
  - Type: string
  - Description:



- *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:DescribeStacks
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:EstimateTemplateCost
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:GetTemplate
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation>ListStackResources
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation>ListStacks
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:UpdateStack
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudformation:ValidateTemplate
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch>DeleteAlarms
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:DescribeAlarmHistory

- Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:DescribeAlarms
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:DescribeAlarmsForMetric
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:DisableAlarmActions
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:EnableAlarmActions
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:GetMetricStatistics
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch>ListMetrics
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:PutMetricAlarm
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.cloudwatch:PutMetricData
  - Type: string
  - Description:

- 
- conf.horizon.policy.heat.cloudwatch:SetAlarmState
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.context\_is\_admin
  - Type: string
  - Description:
    - *role:admin*
- conf.horizon.policy.heat.deny\_everybody
  - Type: string
  - Description:
    - *!*
- conf.horizon.policy.heat.deny\_stack\_user
  - Type: string
  - Description:
    - *not role:heat\_stack\_user*
- conf.horizon.policy.heat.events:index
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.events:show
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.resource:index
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.resource:mark\_unhealthy
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.resource:metadata

- Type: string
  - Description:
  -
- conf.horizon.policy.heat.resource:show
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.resource:signal
  - Type: string
  - Description:
  -
- conf.horizon.policy.heat.resource\_types:OS::Cinder::EncryptedVolumeType
  - Type: string
  - Description:
    - *rule:context\_is\_admin*
- conf.horizon.policy.heat.resource\_types:OS::Cinder::VolumeType
  - Type: string
  - Description:
    - *rule:context\_is\_admin*
- conf.horizon.policy.heat.resource\_types:OS::Manila::ShareType
  - Type: string
  - Description:
    - *rule:context\_is\_admin*
- conf.horizon.policy.heat.resource\_types:OS::Neutron::QoSBandwidthLimitRule
  - Type: string
  - Description:
    - *rule:context\_is\_admin*
- conf.horizon.policy.heat.resource\_types:OS::Neutron::QoSPolicy
  - Type: string
  - Description:
    - *rule:context\_is\_admin*
- conf.horizon.policy.heat.resource\_types:OS::Nova::Flavor
  - Type: string
  - Description:

- *rule:context\_is\_admin*
- conf.horizon.policy.heat.resource\_types:OS::Nova::HostAggregate
  - Type: string
  - Description:
  - *rule:context\_is\_admin*
- conf.horizon.policy.heat.service:index
  - Type: string
  - Description:
  - *rule:context\_is\_admin*
- conf.horizon.policy.heat.software\_configs:create
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_configs:delete
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_configs:global\_index
  - Type: string
  - Description:
  - *rule:deny\_everybody*
- conf.horizon.policy.heat.software\_configs:index
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_configs:show
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_deployments:create
  - Type: string
  - Description:
  - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_deployments:delete

- Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_deployments:index
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_deployments:metadata
  - Type: string
  - Description:
    -
- conf.horizon.policy.heat.software\_deployments:show
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.software\_deployments:update
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:abandon
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:create
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:delete
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:delete\_snapshot
  - Type: string
  - Description:

- *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:detail
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:environment
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:export
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:generate\_template
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:global\_index
  - Type: string
  - Description:
    - *rule:deny\_everybody*
- conf.horizon.policy.heat.stacks:index
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:list\_outputs
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:list\_resource\_types
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:list\_snapshots

- Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:list\_template\_functions
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:list\_template\_versions
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:lookup
  - Type: string
  - Description:
    -
- conf.horizon.policy.heat.stacks:preview
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:preview\_update
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:preview\_update\_patch
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:resource\_schema
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:restore\_snapshot
  - Type: string
  - Description:



- *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:show
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:show\_output
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:show\_snapshot
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:snapshot
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:template
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:update
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:update\_patch
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.policy.heat.stacks:validate\_template
  - Type: string
  - Description:
    - *rule:deny\_stack\_user*
- conf.horizon.security

- Type: string
- Description:

```
#
Disable access to the entire file system except for the
directories that
are explicitly allowed later.
#
This currently breaks the configurations that come with some web
application
Debian packages.
#
#<Directory />
AllowOverride None
Require all denied
#</Directory>

Changing the following options will not really affect the security
of the
server, but might make attacks slightly more difficult in some
cases.

#
ServerTokens
This directive configures what you return as the Server HTTP
response
Header. The default is 'Full' which sends information about the OS-
Type
and compiled in modules.
Set to one of: Full | OS | Minimal | Minor | Major | Prod
where Full conveys the most information, and Prod the least.
ServerTokens Prod

#
Optionally add a line containing the server version and virtual
host
name to server-generated pages (internal error documents, FTP
directory
listings, mod_status and mod_info output etc., but not CGI
generated
documents or custom error documents).
Set to \"EMail\" to also include a mailto: link to the ServerAdmin.
Set to one of: On | Off | EMail
ServerSignature Off

#
Allow TRACE method
#
Set to \"extended\" to also reflect the request body (only for
testing and
```

(continues on next page)

(continued from previous page)

```
diagnostic purposes).
#
Set to one of: On | Off | extended
TraceEnable Off

#
Forbid access to version control directories
#
If you use version control systems in your document root, you
↳ should
probably deny access to their directories. For example, for
↳ subversion:
#
#<DirectoryMatch "/\\.svn">
Require all denied
#</DirectoryMatch>

#Security-Settings
Setting this header will prevent MSIE from interpreting files as
↳ something
else than declared by the content type in the HTTP headers.
Requires mod_headers to be enabled.
#
Header set X-Content-Type-Options: \"nosniff\"
Header set X-Permitted-Cross-Domain-Policies: \"none\"
Setting this header will prevent other sites from embedding pages
↳ from this
site as frames. This defends against clickjacking attacks.
Requires mod_headers to be enabled.
#
```

- conf.software.apache2.a2dismod[0]
  - Type: string
  - Description:
  - status
- conf.software.apache2.a2enmod[0]
  - Type: string
  - Description:
  - headers
- conf.software.apache2.a2enmod[1]
  - Type: string
  - Description:
  - rewrite
- conf.software.apache2.binary

- Type: string
  - Description:
    - *apache2*
- conf.software.apache2.conf\_dir
  - Type: string
  - Description:
    - */etc/apache2/conf-available*
- conf.software.apache2.mods\_dir
  - Type: string
  - Description:
    - */etc/apache2/mods-available*
- conf.software.apache2.site\_dir
  - Type: string
  - Description:
    - */etc/apache2/sites-available*
- conf.software.apache2.start\_parameters
  - Type: string
  - Description:
    - *-DFOREGROUND*
- dependencies.dynamic.common.local\_image\_registry.jobs[0]
  - Type: string
  - Description:
    - *horizon-image-repo-sync*
- dependencies.dynamic.common.local\_image\_registry.services[0].endpoint
  - Type: string
  - Description:
    - *node*
- dependencies.dynamic.common.local\_image\_registry.services[0].service
  - Type: string
  - Description:
    - *local\_image\_registry*
- dependencies.static.dashboard.jobs[0]
  - Type: string
  - Description:

- *horizon-db-sync*
- dependencies.static.dashboard.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.dashboard.services[0].service
  - Type: string
  - Description:
    - *oslo\_cache*
- dependencies.static.dashboard.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.dashboard.services[1].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.dashboard.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.dashboard.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint

- Type: string
  - Description:
    - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string
  - Description:
    - *horizon-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
    - *local\_image\_registry*
- dependencies.static.tests.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.tests.services[0].service
  - Type: string
  - Description:

- *dashboard*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
  - *cluster.local*
- endpoints.dashboard.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.dashboard.hosts.default
  - Type: string
  - Description:
  - *horizon-int*
- endpoints.dashboard.hosts.public
  - Type: string
  - Description:
  - *horizon*
- endpoints.dashboard.name
  - Type: string
  - Description:
  - *horizon*
- endpoints.dashboard.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.dashboard.port.web.default
  - Type: int
  - Description:
  - *80*
- endpoints.dashboard.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.identity.auth.admin.password

- Type: string
  - Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:



- *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
    - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
    - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
    - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
    - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.ingress.port.ingress.default

- Type: int
  - Description:
  - *80*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
  - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
  - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
  - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
  - *53*
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
  - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:

- *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
  - *5000*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
  - *false*
- endpoints.oci\_image\_registry.auth.horizon.password

- Type: string
  - Description:
    - *password*
- endpoints.oci\_image\_registry.auth.horizon.username
  - Type: string
  - Description:
    - *horizon*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
    - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:

- *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
  - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
  - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
  - *root*
- endpoints.oslo\_db.auth.horizon.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.horizon.username
  - Type: string
  - Description:
  - *horizon*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:
  - *mariadb*
- endpoints.oslo\_db.path

- Type: string
  - Description:
  - */horizon*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- helm3\_hook
  - Type: bool
  - Description:
  - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
  - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
  - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
  - *IfNotPresent*
- images.tags.db\_drop
  - Type: string
  - Description:

- *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
  - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu\_focal*
- images.tags.horizon
  - Type: string
  - Description:
  - *quay.io/airshipit/horizon:2024.1-ubuntu\_jammy*
- images.tags.horizon\_db\_sync
  - Type: string
  - Description:
  - *quay.io/airshipit/horizon:2024.1-ubuntu\_jammy*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
  - *docker.io/docker:17.07.0*
- images.tags.test
  - Type: string
  - Description:
  - *docker.io/openstackhelm/osh-selenium:latest-ubuntu\_jammy*
- labels.dashboard.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.dashboard.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.job.node\_selector\_key

- Type: string
  - Description:
    - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- manifests.certificates
  - Type: bool
  - Description:
    - *false*
- manifests.configmap\_bin
  - Type: bool
  - Description:
    - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
    - *true*
- manifests.configmap\_logo
  - Type: bool
  - Description:
    - *false*
- manifests.deployment
  - Type: bool
  - Description:



- *true*
- manifests.ingress\_api
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
  - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.network\_policy
  - Type: bool
  - Description:
  - *false*
- manifests.pdb
  - Type: bool
  - Description:
  - *true*
- manifests.pod\_helm\_test
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db

- Type: bool
  - Description:
    - *true*
- manifests.secret\_ingress\_tls
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_registry
  - Type: bool
  - Description:
    - *true*
- manifests.service
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress
  - Type: bool
  - Description:
    - *true*
- network.dashboard.ingress.annotations.nginx.ingress.kubernetes.io/proxy-body-size
  - Type: string
  - Description:
    - *300m*
- network.dashboard.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
    - */*
- network.dashboard.ingress.classes.cluster
  - Type: string
  - Description:

- *nginx-cluster*
- network.dashboard.ingress.classes.namespace
  - Type: string
  - Description:
    - *nginx*
- network.dashboard.ingress.public
  - Type: bool
  - Description:
    - *true*
- network.external\_policy\_local
  - Type: bool
  - Description:
    - *false*
- network.node\_port.enabled
  - Type: bool
  - Description:
    - *false*
- network.node\_port.port
  - Type: int
  - Description:
    - *31000*
- network\_policy.horizon.egress[0]
  - Type: object
  - Description:
    - *{}*
- network\_policy.horizon.ingress[0]
  - Type: object
  - Description:
    - *{}*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
    - *kubernetes.io/hostname*
- pod.affinity.anti.type.default

- Type: string
  - Description:
    - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
    - *10*
- pod.lifecycle.disruption\_budget.horizon.min\_available
  - Type: int
  - Description:
    - *0*
- pod.lifecycle.termination\_grace\_period.horizon.timeout
  - Type: int
  - Description:
    - *30*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
    - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
    - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
    - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
    - *1*
- pod.mounts.horizon.horizon.volumeMounts
  - Type: string
  - Description:

- *nil*
- pod.mounts.horizon.horizon.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_db\_init.horizon\_db\_init.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_db\_init.horizon\_db\_init.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_db\_init.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_db\_sync.horizon\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_db\_sync.horizon\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_db\_sync.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_tests.horizon\_tests.volumeMounts

- Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_tests.horizon\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.horizon\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.replicas.server
  - Type: int
  - Description:
  - *1*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:

- *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu

- Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.server.limits.cpu
  - Type: string
  - Description:



- *2000m*
- pod.resources.server.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.server.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.server.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.security\_context.db\_sync.container.horizon\_db\_sync.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.db\_sync.container.horizon\_db\_sync.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.db\_sync.container.horizon\_db\_sync.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.db\_sync.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.horizon.container.horizon.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.horizon.container.horizon.readOnlyRootFilesystem

- Type: bool
  - Description:
  - *false*
- pod.security\_context.horizon.container.horizon.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.horizon.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.test.container.horizon\_test.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.test.container.horizon\_test.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.test.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.tolerations.horizon.enabled
  - Type: bool
  - Description:
  - *false*
- pod.tolerations.horizon.tolerations[0].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.horizon.tolerations[0].key
  - Type: string
  - Description:

- *node-role.kubernetes.io/master*
- pod.tolerations.horizon.tolerations[0].operator
  - Type: string
  - Description:
  - *Exists*
- pod.tolerations.horizon.tolerations[1].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.horizon.tolerations[1].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/control-plane*
- pod.tolerations.horizon.tolerations[1].operator
  - Type: string
  - Description:
  - *Exists*
- release\_group
  - Type: string
  - Description:
  - *nil*
- secrets.identity.admin
  - Type: string
  - Description:
  - *horizon-keystone-admin*
- secrets.oci\_image\_registry.horizon
  - Type: string
  - Description:
  - *horizon-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string
  - Description:
  - *horizon-db-admin*
- secrets.oslo\_db.horizon

- Type: string
  - Description:
    - *horizon-db-user*
- secrets.tls.dashboard.dashboard.internal
  - Type: string
  - Description:
    - *horizon-tls-web*
- secrets.tls.dashboard.dashboard.public
  - Type: string
  - Description:
    - *horizon-tls-public*
- selenium\_v4
  - Type: bool
  - Description:
    - *true*
- tls.identity
  - Type: bool
  - Description:
    - *false*

## 3.10 Ironic

There are various customizations you can do to tailor the deployment of OpenStack Ironic. You can find those below.

### 3.10.1 General Parameters

- bootstrap.image.enabled
  - Type: bool
  - Description:
    - *true*
- bootstrap.image.openstack.enabled
  - Type: bool
  - Description:
    - *true*
- bootstrap.image.openstack.ks\_user
  - Type: string

- Description:
  - *ironic*
- bootstrap.image.source\_base
  - Type: string
  - Description:
  - *http://tarballs.openstack.org/ironic-python-agent/tinyipa/files*
- bootstrap.image.structured.ironic-agent.initramfs.container\_format
  - Type: string
  - Description:
  - *ari*
- bootstrap.image.structured.ironic-agent.initramfs.disk\_format
  - Type: string
  - Description:
  - *ari*
- bootstrap.image.structured.ironic-agent.initramfs.source
  - Type: string
  - Description:
  - *tinyipa-stable-wallaby.gz*
- bootstrap.image.structured.ironic-agent.kernel.container\_format
  - Type: string
  - Description:
  - *aki*
- bootstrap.image.structured.ironic-agent.kernel.disk\_format
  - Type: string
  - Description:
  - *aki*
- bootstrap.image.structured.ironic-agent.kernel.source
  - Type: string
  - Description:
  - *tinyipa-stable-wallaby.vmlinuz*
- bootstrap.network.enabled
  - Type: bool
  - Description:
  - *true*

- bootstrap.network.openstack.enabled
  - Type: bool
  - Description:
    - *true*
- bootstrap.object\_store.enabled
  - Type: bool
  - Description:
    - *true*
- bootstrap.object\_store.openstack.enabled
  - Type: bool
  - Description:
    - *true*
- conductor.extraContainers
  - Type: list
  - Description: Additional containers to add to the conductor pods # Note: Supports use of custom Helm templates
  - *[]*
- conductor.http.enabled
  - Type: bool
  - Description:
    - *true*
- conductor.http.init\_script
  - Type: string
  - Description:

```
– #!/bin/bash
set -ex
if [\ "x\" == \ "x${PROVISIONER_INTERFACE}\"]; then
 echo \ "Provisioner interface is not set\"
 exit 1
fi

function net_pxe_addr {
 ip addr | awk \ "/inet / && /${PROVISIONER_INTERFACE}/ {print \ \"$2;
↪exit }\"
}
function net_pxe_ip {
 echo $(net_pxe_addr) | awk -F '/' '{ print $1; exit }'
}
PXE_IP=$(net_pxe_ip)
```

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```
if [\"x\" == \"x${PXE_IP}\"]; then
 echo \"Could not find IP for pxe to bind to\"
 exit 1
fi

sed \"s|OSH_PXE_IP|${PXE_IP}|g\" /etc/nginx/nginx.conf > /tmp/pod-
↪shared/nginx.conf
```

- conductor.http.script

- Type: string
- Description:

```
- #!/bin/bash
set -ex
mkdir -p /var/lib/openstack-helm/httpboot
cp -v /tmp/pod-shared/nginx.conf /etc/nginx/nginx.conf
exec nginx -g 'daemon off;'
```

- conductor.initContainers

- Type: list
- Description: Additional init containers to add to the conductor pods # Note: Supports use of custom Helm templates
- []

- conductor.pxe.enabled

- Type: bool
- Description:
- true

- conductor.pxe.init\_script

- Type: string
  - Description:
- ```
- #!/bin/bash
set -ex
# default to Ubuntu path
FILEPATH=${FILEPATH:-/usr/lib/ipxe}

mkdir -p /var/lib/openstack-helm/tftpboot
mkdir -p /var/lib/openstack-helm/tftpboot/master_images

for FILE in undionly.kpxe ipxe.efi pxelinux.0 snponly.efi; do
  # copy in default file
  if [ -f $FILEPATH/$FILE ]; then
    cp -v $FILEPATH/$FILE /var/lib/openstack-helm/tftpboot
```

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```
fi
done
```

- conductor.pxe.script

- Type: string

- Description:

```
#!/bin/bash
set -ex
function net_pxe_addr {
  ip addr | awk \"/inet / && /${PROVISIONER_INTERFACE}/ {print \\$2;
  exit }\"
}
function net_pxe_ip {
  echo $(net_pxe_addr) | awk -F '/' '{ print $1; exit }'
}
PXE_IP=$(net_pxe_ip)

if [ \"x\" == \"x${PXE_IP}\" ]; then
  echo \"Could not find IP for pxe to bind to\"
  exit 1
fi

ln -s /var/lib/openstack-helm/tftpboot /tftpboot
exec /usr/sbin/in.tftpd \\
  --verbose \\
  --foreground \\
  --user root \\
  --address ${PXE_IP}:69 \\
  --map-file /tftp-map-file /tftpboot
```

- conf.ironic.DEFAULT.log_config_append

- Type: string

- Description:

- */etc/ironic/logging.conf*

- conf.ironic.DEFAULT.tmpdir

- Type: string

- Description:

- */var/lib/openstack-helm/tmp*

- conf.ironic.api.port

- Type: string

- Description:

- *nil*

- `conf.ironic.conductor.api_url`
 - Type: string
 - Description:
 - *nil*
- `conf.ironic.database.connection`
 - Type: string
 - Description:
 - *nil*
- `conf.ironic.deploy.http_root`
 - Type: string
 - Description:
 - */var/lib/openstack-helm/httpboot*
- `conf.ironic.glance.auth_section`
 - Type: string
 - Description:
 - *glance*
- `conf.ironic.glance.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.ironic.glance.swift_api_version`
 - Type: string
 - Description:
 - *v1*
- `conf.ironic.glance.swift_container`
 - Type: string
 - Description:
 - *glance*
- `conf.ironic.glance.swift_temp_url_duration`
 - Type: int
 - Description:
 - *86400*
- `conf.ironic.glance.temp_url_endpoint_type`
 - Type: string

- Description:
 - *swift*
- conf.ironic.inspector.auth_type
 - Type: string
 - Description:
 - *password*
- conf.ironic.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.ironic.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.ironic.keystone_authtoken.service_token_roles
 - Type: string
 - Description:
 - *service*
- conf.ironic.keystone_authtoken.service_token_roles_required
 - Type: bool
 - Description:
 - *true*
- conf.ironic.neutron.auth_type
 - Type: string
 - Description:
 - *password*
- conf.ironic.oslo_policy.policy_file
 - Type: string
 - Description:
 - */etc/ironic/policy.yaml*
- conf.ironic.pxe.images_path
 - Type: string
 - Description:
 - */var/lib/openstack-helm/ironic/images*

- `conf.ironic.pxe.instance_master_path`
 - Type: string
 - Description:
 - `/var/lib/openstack-helm/ironic/master_images`
- `conf.ironic.pxe.ipxe_enabled`
 - Type: bool
 - Description:
 - `true`
- `conf.ironic.pxe.pxe_append_params`
 - Type: string
 - Description:
 - `nofb nomodeset vga=normal ipa-debug=1`
- `conf.ironic.pxe.pxe_bootfile_name`
 - Type: string
 - Description:
 - `undionly.kpxe`
- `conf.ironic.pxe.pxe_config_template`
 - Type: string
 - Description:
 - `$pybasedir/drivers/modules/ipxe_config.template`
- `conf.ironic.pxe.tftp_master_path`
 - Type: string
 - Description:
 - `/var/lib/openstack-helm/tftpboot/master_images`
- `conf.ironic.pxe.tftp_root`
 - Type: string
 - Description:
 - `/var/lib/openstack-helm/tftpboot`
- `conf.ironic.pxe.uefi_pxe_bootfile_name`
 - Type: string
 - Description:
 - `ipxe.efi`
- `conf.ironic.pxe.uefi_pxe_config_template`
 - Type: string

- Description:
- *\$pybasedir/drivers/modules/ipxe_config.template*
- `conf.ironic.service_catalog.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.ironic.service_user.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.ironic.service_user.send_service_user_token`
 - Type: bool
 - Description:
 - *true*
- `conf.ironic.swift.auth_url`
 - Type: string
 - Description:
 - *nil*
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*

- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - `()`
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - `(sys.stderr,)`
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string

- Description:
 - (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*

- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string

- Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_ironic.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_ironic.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_ironic.qualname`
 - Type: string
 - Description:
 - *ironic*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*

- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *ironic*
- `conf.nginx`
 - Type: string
 - Description:

```

- user nginx;
worker_processes 1;
error_log /var/log/nginx/error.log warn;
pid /var/run/nginx.pid;
events {
    worker_connections 1024;
}
http {
    include /etc/nginx/mime.types;
    default_type application/octet-stream;
    log_format main '$remote_addr - $remote_user [$time_local] \"
↪$request\" '
                    '$status $body_bytes_sent \"$http_referer\" '
                    '\"$http_user_agent\" \"$http_x_forwarded_for\"
↪';
    access_log /var/log/nginx/access.log main;
    sendfile on;
    #tcp_nopush on;
    keepalive_timeout 65;
    #gzip on;
    server {
        listen OSH_PXE_IP:{{ tuple \"baremetal\" \"internal\" \
↪\"pxe_http\" . | include \"helm-toolkit.endpoints.endpoint_port_
↪lookup\" }};
        server_name localhost;
        #charset koi8-r;
        #access_log /var/log/nginx/host.access.log main;
        location / {
            root /var/lib/openstack-helm/httpboot;
        }
    }
}

```

- `conf.paste.append`

- Type: string
- Description:
- *nil*
- conf.paste.override
 - Type: string
 - Description:
 - *nil*
- conf.policy
 - Type: object
 - Description:
 - *{}*
- conf.tftp_map_file
 - Type: string
 - Description:

```
re ^(/tftpboot/) /tftpboot/\\2
re ^/tftpboot/ /tftpboot/
re ^(^/) /tftpboot/\\1
re ^([^/]) /tftpboot/\\1
```
- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *ironic-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *ironic-db-sync*
- dependencies.static.api.jobs[1]

- Type: string
 - Description:
 - *ironic-ks-user*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *ironic-ks-endpoints*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *ironic-manage-cleaning-network*
- dependencies.static.api.jobs[4]
 - Type: string
 - Description:
 - *ironic-rabbit-init*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.bootstrap.jobs
 - Type: string
 - Description:
 - *nil*
- dependencies.static.bootstrap.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.bootstrap.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.bootstrap.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.bootstrap.services[1].service
 - Type: string
 - Description:
 - *image*
- dependencies.static.bootstrap.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.bootstrap.services[2].service
 - Type: string
 - Description:
 - *baremetal*
- dependencies.static.conductor.jobs[0]

- Type: string
 - Description:
 - *ironic-db-sync*
- dependencies.static.conductor.jobs[1]
 - Type: string
 - Description:
 - *ironic-ks-user*
- dependencies.static.conductor.jobs[2]
 - Type: string
 - Description:
 - *ironic-ks-endpoints*
- dependencies.static.conductor.jobs[3]
 - Type: string
 - Description:
 - *ironic-manage-cleaning-network*
- dependencies.static.conductor.jobs[4]
 - Type: string
 - Description:
 - *ironic-rabbit-init*
- dependencies.static.conductor.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.conductor.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[1].service
 - Type: string
 - Description:

- *identity*
- dependencies.static.conductor.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[2].service
 - Type: string
 - Description:
 - *baremetal*
- dependencies.static.conductor.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[3].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]

- Type: string
- Description:
- *ironic-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *ironic-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.manage_cleaning_network.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.manage_cleaning_network.services[0].service
 - Type: string
 - Description:
 - *network*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- endpoints.baremetal.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.baremetal.hosts.default

- Type: string
 - Description:
 - *ironic-api*
- endpoints.baremetal.hosts.public
 - Type: string
 - Description:
 - *ironic*
- endpoints.baremetal.name
 - Type: string
 - Description:
 - *ironic*
- endpoints.baremetal.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.baremetal.port.api.default
 - Type: int
 - Description:
 - *6385*
- endpoints.baremetal.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.baremetal.port.pxe_http.default
 - Type: int
 - Description:
 - *8080*
- endpoints.baremetal.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:

- *cluster.local*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:
 - *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password

- Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.glance.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.glance.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.glance.project_name
 - Type: string
 - Description:

- *service*
- endpoints.identity.auth.glance.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.glance.role
 - Type: string
 - Description:
 - *admin,service*
- endpoints.identity.auth.glance.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.glance.username
 - Type: string
 - Description:
 - *glance*
- endpoints.identity.auth.ironic.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.ironic.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.ironic.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.ironic.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.ironic.role

- Type: string
 - Description:
 - *admin,service*
- endpoints.identity.auth.ironic.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.ironic.username
 - Type: string
 - Description:
 - *ironic*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:

- 80
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - 5000
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.image.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.image.hosts.default
 - Type: string
 - Description:
 - *glance-api*
- endpoints.image.hosts.public
 - Type: string
 - Description:
 - *glance*
- endpoints.image.name
 - Type: string
 - Description:
 - *glance*
- endpoints.image.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.image.port.api.default
 - Type: int
 - Description:
 - 9292
- endpoints.image.port.api.public

- Type: int
- Description:
- *80*
- endpoints.image.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:

- 5000
- endpoints.network.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.network.hosts.default
 - Type: string
 - Description:
 - *neutron-server*
- endpoints.network.hosts.public
 - Type: string
 - Description:
 - *neutron*
- endpoints.network.name
 - Type: string
 - Description:
 - *neutron*
- endpoints.network.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.network.port.api.default
 - Type: int
 - Description:
 - 9696
- endpoints.network.port.api.public
 - Type: int
 - Description:
 - 80
- endpoints.network.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.object_store.auth.glance.tmpurlkey

- Type: string
 - Description:
 - *supersecret*
- endpoints.object_store.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.object_store.hosts.default
 - Type: string
 - Description:
 - *ceph-rgw*
- endpoints.object_store.name
 - Type: string
 - Description:
 - *swift*
- endpoints.object_store.namespace
 - Type: string
 - Description:
 - *ceph*
- endpoints.object_store.path.default
 - Type: string
 - Description:
 - */swift/v1/KEY_\$(tenant_id)s*
- endpoints.object_store.port.api.default
 - Type: int
 - Description:
 - *8088*
- endpoints.object_store.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:

- *false*
- endpoints.oci_image_registry.auth.ironic.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.ironic.username
 - Type: string
 - Description:
 - *ironic*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default

- Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.ironic.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.ironic.username
 - Type: string
 - Description:
 - *ironic*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:

- *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */ironic*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.ironic.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.ironic.username
 - Type: string
 - Description:
 - *ironic*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default

- Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */ironic*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:

- *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ironic_api

- Type: string
 - Description:
 - *quay.io/airshipit/ironic:2024.1-ubuntu_jammy*
- images.tags.ironic_conductor
 - Type: string
 - Description:
 - *quay.io/airshipit/ironic:2024.1-ubuntu_jammy*
- images.tags.ironic_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/ironic:2024.1-ubuntu_jammy*
- images.tags.ironic_manage_cleaning_network
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ironic_pxe
 - Type: string
 - Description:
 - *quay.io/airshipit/ironic:2024.1-ubuntu_jammy*
- images.tags.ironic_pxe_http
 - Type: string
 - Description:
 - *docker.io/nginx:1.13.3*
- images.tags.ironic_pxe_init
 - Type: string
 - Description:
 - *quay.io/airshipit/ironic:2024.1-ubuntu_jammy*
- images.tags.ironic_retrieve_cleaning_network
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ironic_retrieve_swift_config
 - Type: string
 - Description:

- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.conductor.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.conductor.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key

- Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:

- *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_manage_cleaning_network
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api

- Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.statefulset_conductor
 - Type: bool
 - Description:
 - *true*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:

- /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30511*
- network.pxe.device
 - Type: string
 - Description:
 - *ironic-pxe*
- network.pxe.neutron_network_name
 - Type: string
 - Description:
 - *baremetal*
- network.pxe.neutron_provider_network
 - Type: string
 - Description:
 - *ironic*
- network.pxe.neutron_subnet_alloc_end

- Type: string
 - Description:
 - *172.24.6.200*
- network.pxe.neutron_subnet_alloc_start
 - Type: string
 - Description:
 - *172.24.6.100*
- network.pxe.neutron_subnet_cidr
 - Type: string
 - Description:
 - *172.24.6.0/24*
- network.pxe.neutron_subnet_dns_nameserver
 - Type: string
 - Description:
 - *10.96.0.10*
- network.pxe.neutron_subnet_gateway
 - Type: string
 - Description:
 - *172.24.6.1/24*
- network.pxe.neutron_subnet_name
 - Type: string
 - Description:
 - *baremetal*
- network_policy.ironic.egress[0]
 - Type: object
 - Description:
 - *{}*
- network_policy.ironic.ingress[0]
 - Type: object
 - Description:
 - *{}*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:

- *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.ironic_api.init_container

- Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_api.ironic_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_api.ironic_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_bootstrap.ironic_bootstrap.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_bootstrap.ironic_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_conductor.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_conductor.ironic_conductor.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_conductor.ironic_conductor.volumes
 - Type: string
 - Description:

- *nil*
- pod.mounts.ironic_db_sync.ironic_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.ironic_db_sync.ironic_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.conductor
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.conductor.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.conductor.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.conductor.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.conductor.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:

- *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.tolerations.ironic.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.ironic.tolerations[0].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.ironic.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.ironic.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.ironic.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.ironic.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.ironic.tolerations[1].operator

- Type: string
 - Description:
 - *Exists*
- pod.useHostIPC.conductor
 - Type: bool
 - Description:
 - *true*
- pod.useHostNetwork.conductor
 - Type: bool
 - Description:
 - *true*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *ironic-keystone-admin*
- secrets.identity.glance
 - Type: string
 - Description:
 - *ironic-glance-keystone-user*
- secrets.identity.ironic
 - Type: string
 - Description:
 - *ironic-keystone-user*
- secrets.oci_image_registry.ironic
 - Type: string
 - Description:
 - *ironic-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:

- *ironic-db-admin*
- secrets.oslo_db.ironic
 - Type: string
 - Description:
 - *ironic-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *ironic-rabbitmq-admin*
- secrets.oslo_messaging.ironic
 - Type: string
 - Description:
 - *ironic-rabbitmq-user*

3.11 Keystone

There are various customizations you can do to tailor the deployment of OpenStack Keystone. You can find those below.

3.11.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *true*
- bootstrap.ks_user
 - Type: string
 - Description:
 - *admin*
- bootstrap.script
 - Type: string
 - Description:

```
# admin needs the admin role for the default domain
openstack role add \
  --user="\${OS_USERNAME}" \
  --domain="\${OS_DEFAULT_DOMAIN}" \
  "admin"
```

- conf.access_rules

- Type: object
 - Description:
 - {}
- conf.keystone.DEFAULT.log_config_append
 - Type: string
 - Description:
 - */etc/keystone/logging.conf*
- conf.keystone.DEFAULT.max_token_size
 - Type: int
 - Description:
 - 255
- conf.keystone.cache.backend
 - Type: string
 - Description:
 - *dogpile.cache.memcached*
- conf.keystone.cache.enabled
 - Type: bool
 - Description:
 - *true*
- conf.keystone.credential.key_repository
 - Type: string
 - Description:
 - */etc/keystone/credential-keys/*
- conf.keystone.database.max_retries
 - Type: int
 - Description:
 - *-1*
- conf.keystone.fernet_tokens.key_repository
 - Type: string
 - Description:
 - */etc/keystone/fernet-keys/*
- conf.keystone.fernet_tokens.max_active_keys
 - Type: int
 - Description:

- 7
- `conf.keystone.identity.domain_config_dir`
 - Type: string
 - Description:
 - */etc/keystone/domains*
- `conf.keystone.identity.domain_specific_drivers_enabled`
 - Type: bool
 - Description:
 - *true*
- `conf.keystone.oslo_messaging_notifications.driver`
 - Type: string
 - Description:
 - *messagingv2*
- `conf.keystone.oslo_messaging_rabbit.rabbit_ha_queues`
 - Type: bool
 - Description:
 - *true*
- `conf.keystone.oslo_middleware.enable_proxy_headers_parsing`
 - Type: bool
 - Description:
 - *true*
- `conf.keystone.oslo_policy.policy_file`
 - Type: string
 - Description:
 - */etc/keystone/policy.yaml*
- `conf.keystone.security_compliance.lockout_duration`
 - Type: int
 - Description:
 - *1800*
- `conf.keystone.security_compliance.lockout_failure_attempts`
 - Type: int
 - Description:
 - *5*
- `conf.keystone.token.expiration`

- Type: int
 - Description:
 - *43200*
- `conf.keystone.token.provider`
 - Type: string
 - Description:
 - *fernet*
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:

- ()
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - *(sys.stdout,)*
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`

- Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:

- *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_keystone.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_keystone.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_keystone.qualname`

- Type: string
 - Description:
 - *keystone*
- conf.logging.logger_root.handlers
 - Type: string
 - Description:
 - *null*
- conf.logging.logger_root.level
 - Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_sqlalchemy.handlers
 - Type: string
 - Description:
 - *stderr*
- conf.logging.logger_sqlalchemy.level
 - Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_sqlalchemy.qualname
 - Type: string
 - Description:
 - *sqlalchemy*
- conf.logging.loggers.keys[0]
 - Type: string
 - Description:
 - *root*
- conf.logging.loggers.keys[1]
 - Type: string
 - Description:
 - *keystone*
- conf.mpm_event
 - Type: string
 - Description:

```
- <IfModule mpm_event_module>
  ServerLimit      1024
  StartServers     32
  MinSpareThreads  32
  MaxSpareThreads  256
  ThreadsPerChild  25
  MaxRequestsPerChild 128
  ThreadLimit      720
</IfModule>
```

- `conf.policy`
 - Type: object
 - Description:
 - `{}`
- `conf.rabbitmq.policies[0].apply-to`
 - Type: string
 - Description:
 - *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`
 - Type: string
 - Description:
 - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
 - Type: string
 - Description:
 - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
 - Type: int
 - Description:
 - *70000*
- `conf.rabbitmq.policies[0].name`
 - Type: string
 - Description:
 - *ha_ttl_keystone*
- `conf.rabbitmq.policies[0].pattern`
 - Type: string
 - Description:

- `^(?!(amq\|reply_)).*`
- `conf.rabbitmq.policies[0].priority`
 - Type: int
 - Description:
 - `0`
- `conf.rabbitmq.policies[0].vhost`
 - Type: string
 - Description:
 - `keystone`
- `conf.rally_tests.run_tempest`
 - Type: bool
 - Description:
 - `false`
- `conf.rally_tests.tests.KeystoneBasic.add_and_remove_user_role[0].runner.concurrency`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tests.tests.KeystoneBasic.add_and_remove_user_role[0].runner.times`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tests.tests.KeystoneBasic.add_and_remove_user_role[0].runner.type`
 - Type: string
 - Description:
 - `constant`
- `conf.rally_tests.tests.KeystoneBasic.add_and_remove_user_role[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - `0`
- `conf.rally_tests.tests.KeystoneBasic.authenticate_user_and_validate_token[0].args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tests.tests.KeystoneBasic.authenticate_user_and_validate_token[0].runner.concurrency`

- Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.authenticate_user_and_validate_token[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.authenticate_user_and_validate_token[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.authenticate_user_and_validate_token[0].sla.failure_rate.max
 - Type: int
 - Description:
 - *0*
- conf.rally_tests.tests.KeystoneBasic.create_add_and_list_user_roles[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_add_and_list_user_roles[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_add_and_list_user_roles[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_add_and_list_user_roles[0].sla.failure_rate.max
 - Type: int
 - Description:
 - *0*
- conf.rally_tests.tests.KeystoneBasic.create_and_delete_ec2credential[0].runner.concurrency
 - Type: int
 - Description:

- *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_ec2credential[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_ec2credential[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_ec2credential[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_role[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_role[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_role[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_role[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_service[0].args.description`
 - Type: string
 - Description:
 - *test_description*
- `conf.rally_tests.tests.KeystoneBasic.create_and_delete_service[0].args.service_type`

- Type: string
 - Description:
 - *Rally_test_type*
- conf.rally_tests.tests.KeystoneBasic.create_and_delete_service[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_delete_service[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_delete_service[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_and_delete_service[0].sla.failure_rate.max
 - Type: int
 - Description:
 - *0*
- conf.rally_tests.tests.KeystoneBasic.create_and_get_role[0].args
 - Type: object
 - Description:
 - *{}*
- conf.rally_tests.tests.KeystoneBasic.create_and_get_role[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_get_role[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_get_role[0].runner.type
 - Type: string
 - Description:

- *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_and_get_role[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_ec2credentials[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_ec2credentials[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_ec2credentials[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_ec2credentials[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_services[0].args.description`
 - Type: string
 - Description:
 - *test_description*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_services[0].args.service_type`
 - Type: string
 - Description:
 - *Rally_test_type*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_services[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_services[0].runner.times`

- Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_services[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_services[0].sla.failure_rate.max
 - Type: int
 - Description:
 - *0*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_tenants[0].args
 - Type: object
 - Description:
 - *{}*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_tenants[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_tenants[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_tenants[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_tenants[0].sla.failure_rate.max
 - Type: int
 - Description:
 - *0*
- conf.rally_tests.tests.KeystoneBasic.create_and_list_users[0].args
 - Type: object
 - Description:

- *{}*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_users[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_users[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_users[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_and_list_users[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_delete_user[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tests.tests.KeystoneBasic.create_delete_user[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_delete_user[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_delete_user[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_delete_user[0].sla.failure_rate.max`

- Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant_with_users[0].args.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant_with_users[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.KeystoneBasic.create_tenant_with_users[0].runner.times`
 - Type: int
 - Description:

- 1
- conf.rally_tests.tests.KeystoneBasic.create_tenant_with_users[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_tenant_with_users[0].sla.failure_rate.max
 - Type: int
 - Description:
 - 0
- conf.rally_tests.tests.KeystoneBasic.create_update_and_delete_tenant[0].args
 - Type: object
 - Description:
 - {}
- conf.rally_tests.tests.KeystoneBasic.create_update_and_delete_tenant[0].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.create_update_and_delete_tenant[0].runner.times
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.create_update_and_delete_tenant[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_update_and_delete_tenant[0].sla.failure_rate.max
 - Type: int
 - Description:
 - 0
- conf.rally_tests.tests.KeystoneBasic.create_user[0].args
 - Type: object
 - Description:
 - {}
- conf.rally_tests.tests.KeystoneBasic.create_user[0].runner.concurrency

- Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_user[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_user[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_user[0].sla.failure_rate.max
 - Type: int
 - Description:
 - *0*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[0].args.enabled
 - Type: bool
 - Description:
 - *true*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[0].sla.failure_rate.max
 - Type: int
 - Description:

- 0
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[1].args.enabled
 - Type: bool
 - Description:
 - *false*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[1].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[1].runner.times
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[1].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.create_user_set_enabled_and_delete[1].sla.failure_rate.max
 - Type: int
 - Description:
 - 0
- conf.rally_tests.tests.KeystoneBasic.create_user_update_password[0].args
 - Type: object
 - Description:
 - *{}*
- conf.rally_tests.tests.KeystoneBasic.create_user_update_password[0].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.create_user_update_password[0].runner.times
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.create_user_update_password[0].runner.type

- Type: string
- Description:
- *constant*
- conf.rally_tests.tests.KeystoneBasic.create_user_update_password[0].sla.failure_rate.max
 - Type: int
 - Description:
 - 0
- conf.rally_tests.tests.KeystoneBasic.get_entities[0].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.get_entities[0].runner.times
 - Type: int
 - Description:
 - 1
- conf.rally_tests.tests.KeystoneBasic.get_entities[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tests.tests.KeystoneBasic.get_entities[0].sla.failure_rate.max
 - Type: int
 - Description:
 - 0
- conf.security
 - Type: string
 - Description:

```

- #
  # Disable access to the entire file system except for the
  ↪ directories that
  # are explicitly allowed later.
  #
  # This currently breaks the configurations that come with some web
  ↪ application
  # Debian packages.
  #
  #<Directory />
  # AllowOverride None

```

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```
# Require all denied
#</Directory>

# Changing the following options will not really affect the security
# of the
# server, but might make attacks slightly more difficult in some
# cases.

#
# ServerTokens
# This directive configures what you return as the Server HTTP
# response
# Header. The default is 'Full' which sends information about the OS-
# Type
# and compiled in modules.
# Set to one of: Full | OS | Minimal | Minor | Major | Prod
# where Full conveys the most information, and Prod the least.
ServerTokens Prod

#
# Optionally add a line containing the server version and virtual
# host
# name to server-generated pages (internal error documents, FTP
# directory
# listings, mod_status and mod_info output etc., but not CGI
# generated
# documents or custom error documents).
# Set to \"EMail\" to also include a mailto: link to the ServerAdmin.
# Set to one of: On | Off | EMail
ServerSignature Off

#
# Allow TRACE method
#
# Set to \"extended\" to also reflect the request body (only for
# testing and
# diagnostic purposes).
#
# Set to one of: On | Off | extended
TraceEnable Off

#
# Forbid access to version control directories
#
# If you use version control systems in your document root, you
# should
# probably deny access to their directories. For example, for
# subversion:
#
```

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```
#<DirectoryMatch \"/\|.svn">
#   Require all denied
#</DirectoryMatch>

#
# Setting this header will prevent MSIE from interpreting files as
# something
# else than declared by the content type in the HTTP headers.
# Requires mod_headers to be enabled.
#
#Header set X-Content-Type-Options: "nosniff"

#
# Setting this header will prevent other sites from embedding pages
# from this
# site as frames. This defends against clickjacking attacks.
# Requires mod_headers to be enabled.
#
#Header set X-Frame-Options: "sameorigin"
```

- `conf.software.apache2.a2dismod`
 - Type: string
 - Description:
 - *nil*
- `conf.software.apache2.a2enmod`
 - Type: string
 - Description:
 - *nil*
- `conf.software.apache2.binary`
 - Type: string
 - Description:
 - *apache2*
- `conf.software.apache2.conf_dir`
 - Type: string
 - Description:
 - */etc/apache2/conf-enabled*
- `conf.software.apache2.mods_dir`
 - Type: string
 - Description:
 - */etc/apache2/mods-available*

- `conf.software.apache2.site_dir`
 - Type: string
 - Description:
 - `/etc/apache2/sites-enable`
- `conf.software.apache2.start_parameters`
 - Type: string
 - Description:
 - `-DFOREGROUND`
- `conf.sso_callback_template`
 - Type: string
 - Description:

```

- <!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Keystone WebSSO redirect</title>
  </head>
  <body>
    <form id="sso" name="sso" action="$host" method="post">
      Please wait...
      <br/>
      <input type="hidden" name="token" id="token" value="
↪ $token"/>
      <noscript>
        <input type="submit" name="submit_no_javascript" id="
↪ submit_no_javascript"
          value="If your JavaScript is disabled, please click to
↪ continue"/>
      </noscript>
    </form>
    <script type="text/javascript">
      window.onload = function() {
        document.forms['sso'].submit();
      }
    </script>
  </body>
</html>

```

- `conf.wsgi_keystone`
 - Type: string
 - Description:

```

- {{- $portInt := tuple "identity" "service" "api" $ | include \
↪ "helm-toolkit.endpoints.endpoint_port_lookup" }}

```

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```

Listen 0.0.0.0:{{ $portInt }}

LogFormat "%h %l %u %t \"%r\" \"%s %b \"%{Referer}i\"" combined
↪{User-Agent}i\"" combined
LogFormat "%{X-Forwarded-For}i %l %u %t \"%r\" \"%s %b \"%{Referer}i\"" proxy
↪{Referer}i\"" \"%{User-Agent}i\"" proxy

SetEnvIf X-Forwarded-For "^.*\\..*\\..*\\..*" forwarded
CustomLog /dev/stdout combined env=!forwarded
CustomLog /dev/stdout proxy env=forwarded

<VirtualHost *:{{ $portInt }}>
  WSGIDaemonProcess keystone-public processes=1 threads=1
↪user=keystone group=keystone display-name=%{GROUP}
  WSGIProcessGroup keystone-public
  WSGIScriptAlias / /var/www/cgi-bin/keystone/keystone-wsgi-public
  WSGIApplicationGroup %{GLOBAL}
  WSGIPassAuthorization On
  <IfVersion >= 2.4>
    ErrorLogFormat "%{cu}t %M"
  </IfVersion>
  ErrorLog /dev/stdout

  SetEnvIf X-Forwarded-For "^.*\\..*\\..*\\..*" forwarded
  CustomLog /dev/stdout combined env=!forwarded
  CustomLog /dev/stdout proxy env=forwarded
</VirtualHost>

```

- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *keystone-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.dynamic.rabbit_init.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.dynamic.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *keystone-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *keystone-credential-setup*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *keystone-fernet-setup*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_cache*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.bootstrap.jobs[0]

- Type: string
 - Description:
 - *keystone-domain-manage*
- dependencies.static.bootstrap.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.bootstrap.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.credential_cleanup.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.credential_cleanup.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.credential_rotate.jobs[0]
 - Type: string
 - Description:
 - *keystone-credential-setup*
- dependencies.static.credential_setup
 - Type: string
 - Description:
 - *nil*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:

- *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *keystone-db-init*
- dependencies.static.db_sync.jobs[1]
 - Type: string
 - Description:
 - *keystone-credential-setup*
- dependencies.static.db_sync.jobs[2]
 - Type: string
 - Description:
 - *keystone-fernet-setup*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.domain_manage.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.domain_manage.services[0].service

- Type: string
 - Description:
 - *identity*
- dependencies.static.fernet_rotate.jobs[0]
 - Type: string
 - Description:
 - *keystone-fernet-setup*
- dependencies.static.fernet_setup
 - Type: string
 - Description:
 - *nil*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[0].service
 - Type: string
 - Description:
 - *identity*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:

- *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:
 - *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.default_domain_id
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.password

- Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.default_domain_id
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.test.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:

- *default*
- endpoints.identity.auth.test.project_name
 - Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.test.username
 - Type: string
 - Description:
 - *keystone-test*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name

- Type: string
 - Description:
 - *keystone*
- endpoints.identity.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.path.healthcheck
 - Type: string
 - Description:
 - */healthcheck*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.port.api.service
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.identity.scheme.service
 - Type: string
 - Description:

- *http*
- endpoints.ingress.hosts.default
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.name
 - Type: string
 - Description:
 - *ingress*
- endpoints.ingress.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.ingress.port.ingress.default
 - Type: int
 - Description:
 - *80*
- endpoints.kube_dns.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.kube_dns.hosts.default
 - Type: string
 - Description:
 - *kube-dns*
- endpoints.kube_dns.name
 - Type: string
 - Description:
 - *kubernetes-dns*
- endpoints.kube_dns.namespace
 - Type: string
 - Description:
 - *kube-system*
- endpoints.kube_dns.path.default

- Type: string
 - Description:
 - *nil*
- endpoints.kube_dns.port.dns.default
 - Type: int
 - Description:
 - 53
- endpoints.kube_dns.port.dns.protocol
 - Type: string
 - Description:
 - *UDP*
- endpoints.kube_dns.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.ldap.auth.client.tls.ca
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:

- *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.keystone.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.keystone.username
 - Type: string
 - Description:
 - *keystone*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name

- Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.secret.tls.internal
 - Type: string
 - Description:

- *mariadb-tls-direct*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.keystone.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.keystone.username
 - Type: string
 - Description:
 - *keystone*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */keystone*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme

- Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *rabbitmq-tls-direct*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.keystone.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.keystone.username
 - Type: string
 - Description:
 - *keystone*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.namespace
 - Type: string
 - Description:

- *nil*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */keystone*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]

- Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.keystone_api
 - Type: string
 - Description:

- *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.keystone_credential_cleanup
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.keystone_credential_rotate
 - Type: string
 - Description:
 - *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.keystone_credential_setup
 - Type: string
 - Description:
 - *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.keystone_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.keystone_domain_manage
 - Type: string
 - Description:
 - *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.keystone_fernet_rotate
 - Type: string
 - Description:
 - *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.keystone_fernet_setup
 - Type: string
 - Description:
 - *quay.io/airshipit/keystone:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init

- Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.test
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- jobs.credential_rotate.cron
 - Type: string
 - Description:
 - *0 0 1 * **
- jobs.credential_rotate.group
 - Type: string
 - Description:
 - *keystone*
- jobs.credential_rotate.history.failed
 - Type: int
 - Description:
 - *1*
- jobs.credential_rotate.history.success
 - Type: int
 - Description:
 - *3*
- jobs.credential_rotate.migrate_wait
 - Type: int
 - Description:
 - *120*
- jobs.credential_rotate.user
 - Type: string
 - Description:
 - *keystone*
- jobs.credential_setup.group
 - Type: string
 - Description:

- *keystone*
- jobs.credential_setup.user
 - Type: string
 - Description:
 - *keystone*
- jobs.fernet_rotate.cron
 - Type: string
 - Description:
 - *0 */12 * * **
- jobs.fernet_rotate.group
 - Type: string
 - Description:
 - *keystone*
- jobs.fernet_rotate.history.failed
 - Type: int
 - Description:
 - *1*
- jobs.fernet_rotate.history.success
 - Type: int
 - Description:
 - *3*
- jobs.fernet_rotate.user
 - Type: string
 - Description:
 - *keystone*
- jobs.fernet_setup.group
 - Type: string
 - Description:
 - *keystone*
- jobs.fernet_setup.user
 - Type: string
 - Description:
 - *keystone*
- labels.api.node_selector_key

- Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.certificates
 - Type: bool
 - Description:
 - *false*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:

- *true*
- manifests.cron_credential_rotate
 - Type: bool
 - Description:
 - *true*
- manifests.cron_fernet_rotate
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_credential_cleanup
 - Type: bool
 - Description:
 - *true*
- manifests.job_credential_setup
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init

- Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_domain_manage
 - Type: bool
 - Description:
 - *true*
- manifests.job_fernet_setup
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.pod_rally_test
 - Type: bool
 - Description:

- *true*
- manifests.secret_credential_keys
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_fernet_keys
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api

- Type: bool
 - Description:
 - *true*
- network.admin.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.admin.node_port.port
 - Type: int
 - Description:
 - *30357*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - */*
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:

- *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30500*
- network_policy.keystone.egress[0]
 - Type: object
 - Description:
 - *{}*
- network_policy.keystone.ingress[0]
 - Type: object
 - Description:
 - *{}*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy

- Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - 1
- pod.mounts.keystone_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_api.keystone_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_api.keystone_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_bootstrap.keystone_bootstrap.volumeMounts
 - Type: string
 - Description:

- *nil*
- pod.mounts.keystone_bootstrap.keystone_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_cleanup.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_cleanup.keystone_credential_cleanup.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_cleanup.keystone_credential_cleanup.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_rotate.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_rotate.keystone_credential_rotate.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_rotate.keystone_credential_rotate.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_setup.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_setup.keystone_credential_setup.volumeMounts

- Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_credential_setup.keystone_credential_setup.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_db_init.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_db_init.keystone_db_init.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_db_init.keystone_db_init.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_db_sync.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_db_sync.keystone_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_db_sync.keystone_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_domain_manage.init_container
 - Type: string
 - Description:

- *nil*
- pod.mounts.keystone_domain_manage.keystone_domain_manage.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_domain_manage.keystone_domain_manage.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_fernet_rotate.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_fernet_rotate.keystone_fernet_rotate.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_fernet_rotate.keystone_fernet_rotate.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_fernet_setup.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_fernet_setup.keystone_fernet_setup.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_fernet_setup.keystone_fernet_setup.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_tests.init_container

- Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_tests.keystone_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.keystone_tests.keystone_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.probes.api.api.liveness.enabled
 - Type: bool
 - Description:
 - *true*
- pod.probes.api.api.liveness.params.initialDelaySeconds
 - Type: int
 - Description:
 - *50*
- pod.probes.api.api.liveness.params.periodSeconds
 - Type: int
 - Description:
 - *60*
- pod.probes.api.api.liveness.params.timeoutSeconds
 - Type: int
 - Description:
 - *15*
- pod.probes.api.api.readiness.enabled
 - Type: bool
 - Description:
 - *true*
- pod.probes.api.api.readiness.params.initialDelaySeconds
 - Type: int
 - Description:

- *15*
- pod.probes.api.api.readiness.params.periodSeconds
 - Type: int
 - Description:
 - *60*
- pod.probes.api.api.readiness.params.timeoutSeconds
 - Type: int
 - Description:
 - *15*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.bootstrap.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.credential_cleanup.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.credential_cleanup.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.credential_cleanup.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.credential_cleanup.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.credential_rotate.limits.cpu
 - Type: string
 - Description:

- *2000m*
- pod.resources.jobs.credential_rotate.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.credential_rotate.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.credential_rotate.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.credential_setup.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.credential_setup.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.credential_setup.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.credential_setup.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.domain_manage.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.domain_manage.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.domain_manage.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.domain_manage.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.fernet_rotate.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.fernet_rotate.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.fernet_rotate.requests.cpu

- Type: string
 - Description:
 - *100m*
- pod.resources.jobs.fernet_rotate.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.fernet_setup.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.fernet_setup.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.fernet_setup.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.fernet_setup.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.security_context.credential_setup.container.keystone_credential_setup.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.credential_setup.container.keystone_credential_setup.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.credential_setup.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.security_context.domain_manage.container.keystone_domain_manage.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.domain_manage.container.keystone_domain_manage.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.domain_manage.container.keystone_domain_manage_init.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.domain_manage.container.keystone_domain_manage_init.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.domain_manage.pod.runAsUser
 - Type: int
 - Description:

- 42424
- pod.security_context.fernet_rotate.container.keystone_fernet_rotate.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.fernet_rotate.container.keystone_fernet_rotate.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.fernet_rotate.pod.runAsUser
 - Type: int
 - Description:
 - 42424
- pod.security_context.fernet_setup.container.keystone_fernet_setup.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.fernet_setup.container.keystone_fernet_setup.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.fernet_setup.pod.runAsUser
 - Type: int
 - Description:
 - 42424
- pod.security_context.keystone.container.keystone_api.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.keystone.container.keystone_api.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.keystone.pod.runAsUser

- Type: int
 - Description:
 - *42424*
- pod.security_context.test.container.keystone_test.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.test.container.keystone_test.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.test.container.keystone_test.runAsUser
 - Type: int
 - Description:
 - *65500*
- pod.security_context.test.container.keystone_test_ks_user.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.test.container.keystone_test_ks_user.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.test.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.tolerations.keystone.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.keystone.tolerations[0].effect
 - Type: string
 - Description:

- *NoSchedule*
- pod.tolerations.keystone.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.keystone.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.keystone.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.keystone.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.keystone.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *keystone-keystone-admin*
- secrets.identity.test
 - Type: string
 - Description:
 - *keystone-keystone-test*
- secrets.ldap.tls

- Type: string
 - Description:
 - *keystone-ldap-tls*
- secrets.oci_image_registry.keystone
 - Type: string
 - Description:
 - *keystone-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *keystone-db-admin*
- secrets.oslo_db.keystone
 - Type: string
 - Description:
 - *keystone-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *keystone-rabbitmq-admin*
- secrets.oslo_messaging.keystone
 - Type: string
 - Description:
 - *keystone-rabbitmq-user*
- secrets.tls.identity.api.internal
 - Type: string
 - Description:
 - *keystone-tls-api*
- secrets.tls.identity.api.public
 - Type: string
 - Description:
 - *keystone-tls-public*
- tls.identity
 - Type: bool
 - Description:

- *false*
- `tls.oslo_db`
 - Type: `bool`
 - Description:
 - *false*
- `tls.oslo_messaging`
 - Type: `bool`
 - Description:
 - *false*

3.12 Magnum

There are various customizations you can do to tailor the deployment of OpenStack Magnum. You can find those below.

3.12.1 General Parameters

- `bootstrap.enabled`
 - Type: `bool`
 - Description:
 - *false*
- `bootstrap.ks_user`
 - Type: `string`
 - Description:
 - *magnum*
- `bootstrap.script`
 - Type: `string`
 - Description:
 - `openstack token issue`
- `conf.logging.formatter_context.class`
 - Type: `string`
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
 - Type: `string`
 - Description:
 - *%Y-%m-%d %H:%M:%S*

- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - `%Y-%m-%d %H:%M:%S`
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - `%(message)s`
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - `context`
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - `default`
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - `()`
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - `logging.NullHandler`
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - `default`
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - `(sys.stderr,)`
- `conf.logging.handler_stderr.class`
 - Type: string

- Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - *(sys.stdout,)*
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*

- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string

- Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_magnum.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_magnum.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_magnum.qualname`
 - Type: string
 - Description:
 - *magnum*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*

- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *magnum*
- `conf.magnum.DEFAULT.log_config_append`
 - Type: string
 - Description:
 - */etc/magnum/logging.conf*
- `conf.magnum.DEFAULT.transport_url`
 - Type: string
 - Description:
 - *nil*
- `conf.magnum.api.host`
 - Type: string
 - Description:
 - *0.0.0.0*
- `conf.magnum.api.port`
 - Type: string
 - Description:
 - *nil*
- `conf.magnum.certificates.cert_manager_type`
 - Type: string

- Description:
 - *barbican*
- `conf.magnum.cluster.temp_cache_dir`
 - Type: string
 - Description:
 - */var/lib/magnum/certificate-cache*
- `conf.magnum.database.max_retries`
 - Type: int
 - Description:
 - *-1*
- `conf.magnum.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.magnum.keystone_authtoken.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.magnum.keystone_authtoken.memcache_security_strategy`
 - Type: string
 - Description:
 - *ENCRYPT*
- `conf.magnum.keystone_authtoken.service_type`
 - Type: string
 - Description:
 - *container-infra*
- `conf.magnum.oslo_concurrency.lock_path`
 - Type: string
 - Description:
 - */var/lib/magnum/tmp*
- `conf.magnum.oslo_messaging_notifications.driver`
 - Type: string
 - Description:
 - *messaging*

- `conf.magnum.oslo_policy.policy_file`
 - Type: string
 - Description:
 - */etc/magnum/policy.yaml*
- `conf.magnum.trust.trustee_domain_name`
 - Type: string
 - Description:
 - *nil*
- `conf.magnum_api_uwsgi.uwsgi.add-header`
 - Type: string
 - Description:
 - *Connection: close*
- `conf.magnum_api_uwsgi.uwsgi.buffer-size`
 - Type: int
 - Description:
 - *65535*
- `conf.magnum_api_uwsgi.uwsgi.die-on-term`
 - Type: bool
 - Description:
 - *true*
- `conf.magnum_api_uwsgi.uwsgi.enable-threads`
 - Type: bool
 - Description:
 - *true*
- `conf.magnum_api_uwsgi.uwsgi.exit-on-reload`
 - Type: bool
 - Description:
 - *false*
- `conf.magnum_api_uwsgi.uwsgi.hook-master-start`
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- `conf.magnum_api_uwsgi.uwsgi.lazy-apps`
 - Type: bool

- Description:
 - *true*
- `conf.magnum_api_uwsgi.uwsgi.log-x-forwarded-for`
 - Type: bool
 - Description:
 - *true*
- `conf.magnum_api_uwsgi.uwsgi.master`
 - Type: bool
 - Description:
 - *true*
- `conf.magnum_api_uwsgi.uwsgi.procname-prefix-spaced`
 - Type: string
 - Description:
 - *magnum-api:*
- `conf.magnum_api_uwsgi.uwsgi.route-user-agent`
 - Type: string
 - Description:
 - *^kube-probe.* donotlog:*
- `conf.magnum_api_uwsgi.uwsgi.thunder-lock`
 - Type: bool
 - Description:
 - *true*
- `conf.magnum_api_uwsgi.uwsgi.worker-reload-mercy`
 - Type: int
 - Description:
 - *80*
- `conf.magnum_api_uwsgi.uwsgi.wsgi-file`
 - Type: string
 - Description:
 - */var/lib/openstack/bin/magnum-api-wsgi*
- `conf.paste.app:api_v1.paste.app_factory`
 - Type: string
 - Description:
 - *magnum.api.app:app_factory*

- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *magnum.api.middleware.auth_token:AuthTokenMiddleware.factory*
- `conf.paste.filter:authtoken.acl_public_routes`
 - Type: string
 - Description:
 - */, /v1*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *magnum*
- `conf.paste.filter:healthcheck.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:Healthcheck.factory*
- `conf.paste.filter:healthcheck.backends`
 - Type: string
 - Description:
 - *disable_by_file*
- `conf.paste.filter:healthcheck.disable_by_file_path`
 - Type: string
 - Description:
 - */etc/magnum/healthcheck_disable*
- `conf.paste.filter:request_id.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:RequestId.factory*
- `conf.paste.pipeline:main.pipeline`
 - Type: string

- Description:
 - *cors healthcheck request_id authtoken api_v1*
- `conf.policy`
 - Type: object
 - Description:
 - `{}`
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
 - Type: string
 - Description:
 - *magnum-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`
 - Type: string
 - Description:
 - *node*
- `dependencies.dynamic.common.local_image_registry.services[0].service`
 - Type: string
 - Description:
 - *local_image_registry*
- `dependencies.static.api.jobs[0]`
 - Type: string
 - Description:
 - *magnum-db-sync*
- `dependencies.static.api.jobs[1]`
 - Type: string
 - Description:
 - *magnum-ks-user*
- `dependencies.static.api.jobs[2]`
 - Type: string
 - Description:
 - *magnum-domain-ks-user*
- `dependencies.static.api.jobs[3]`
 - Type: string
 - Description:
 - *magnum-ks-endpoints*

- dependencies.static.api.jobs[4]
 - Type: string
 - Description:
 - *magnum-rabbit-init*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.api.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[3].service
 - Type: string

- Description:
 - *key_manager*
- dependencies.static.api.services[4].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[4].service
 - Type: string
 - Description:
 - *orchestration*
- dependencies.static.conductor.jobs[0]
 - Type: string
 - Description:
 - *magnum-db-sync*
- dependencies.static.conductor.jobs[1]
 - Type: string
 - Description:
 - *magnum-ks-user*
- dependencies.static.conductor.jobs[2]
 - Type: string
 - Description:
 - *magnum-domain-ks-user*
- dependencies.static.conductor.jobs[3]
 - Type: string
 - Description:
 - *magnum-ks-endpoints*
- dependencies.static.conductor.jobs[4]
 - Type: string
 - Description:
 - *magnum-rabbit-init*
- dependencies.static.conductor.services[0].endpoint
 - Type: string
 - Description:
 - *internal*

- dependencies.static.conductor.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.conductor.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.conductor.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.conductor.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[3].service
 - Type: string
 - Description:
 - *key_manager*
- dependencies.static.conductor.services[4].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[4].service
 - Type: string

- Description:
 - *orchestration*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *magnum-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*

- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *magnum-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string

- Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.container_infra.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.container_infra.hosts.default
 - Type: string
 - Description:
 - *magnum-api*
- endpoints.container_infra.hosts.public
 - Type: string
 - Description:
 - *magnum*
- endpoints.container_infra.name
 - Type: string
 - Description:
 - *magnum*
- endpoints.container_infra.path.default
 - Type: string
 - Description:
 - */v1*
- endpoints.container_infra.port.api.default
 - Type: int
 - Description:
 - *9511*

- endpoints.container_infra.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.container_infra.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:
 - *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int

- Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.magnum.password
 - Type: string
 - Description:
 - *password*

- endpoints.identity.auth.magnum.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.magnum.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.magnum.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.magnum.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.magnum.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.magnum.username
 - Type: string
 - Description:
 - *magnum*
- endpoints.identity.auth.magnum_stack_user.domain_name
 - Type: string
 - Description:
 - *magnum*
- endpoints.identity.auth.magnum_stack_user.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.magnum_stack_user.region_name
 - Type: string

- Description:
 - *RegionOne*
- endpoints.identity.auth.magnum_stack_user.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.magnum_stack_user.username
 - Type: string
 - Description:
 - *magnum-domain*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*

- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.key_manager.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.key_manager.hosts.default
 - Type: string
 - Description:
 - *barbican-api*
- endpoints.key_manager.hosts.public
 - Type: string
 - Description:
 - *barbican*
- endpoints.key_manager.name
 - Type: string
 - Description:
 - *barbican*
- endpoints.key_manager.path.default
 - Type: string
 - Description:
 - */v1*
- endpoints.key_manager.port.api.default
 - Type: int
 - Description:
 - *9311*
- endpoints.key_manager.port.api.public
 - Type: int

- Description:
 - *80*
- endpoints.key_manager.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*

- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.magnum.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.magnum.username
 - Type: string
 - Description:
 - *magnum*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.orchestration.host_fqdn_override.default
 - Type: string

- Description:
 - *nil*
- endpoints.orchestration.hosts.default
 - Type: string
 - Description:
 - *heat-api*
- endpoints.orchestration.hosts.public
 - Type: string
 - Description:
 - *heat*
- endpoints.orchestration.name
 - Type: string
 - Description:
 - *heat*
- endpoints.orchestration.path.default
 - Type: string
 - Description:
 - */v1/%(project_id)s*
- endpoints.orchestration.port.api.default
 - Type: int
 - Description:
 - *8004*
- endpoints.orchestration.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.orchestration.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*

- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.magnum.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.magnum.username
 - Type: string
 - Description:
 - *magnum*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string

- Description:
- *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */magnum*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.magnum.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.magnum.username
 - Type: string
 - Description:
 - *magnum*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*

- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */magnum*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string

- Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*

- `images.tags.ks_service`
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- `images.tags.ks_user`
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- `images.tags.magnum_api`
 - Type: string
 - Description:
 - *docker.io/openstackhelm/magnum:2024.1-ubuntu_jammy*
- `images.tags.magnum_conductor`
 - Type: string
 - Description:
 - *docker.io/openstackhelm/magnum:2024.1-ubuntu_jammy*
- `images.tags.magnum_db_sync`
 - Type: string
 - Description:
 - *docker.io/openstackhelm/magnum:2024.1-ubuntu_jammy*
- `images.tags.rabbit_init`
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- `labels.api.node_selector_key`
 - Type: string
 - Description:
 - *openstack-control-plane*
- `labels.api.node_selector_value`
 - Type: string
 - Description:
 - *enabled*
- `labels.conductor.node_selector_key`
 - Type: string

- Description:
 - *openstack-control-plane*
- labels.conductor.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*

- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user_domain
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool

- Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*

- manifests.statefulset_conductor
 - Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - */*
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30511*
- network_policy.magnum.egress[0]
 - Type: object

- Description:
 - {}
- network_policy.magnum.ingress[0]
 - Type: object
 - Description:
 - {}
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*

- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - 1
- pod.mounts.magnum_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_api.magnum_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_api.magnum_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_bootstrap.magnum_bootstrap.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_bootstrap.magnum_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_conductor.init_container
 - Type: string

- Description:
 - *nil*
- pod.mounts.magnum_conductor.magnum_conductor.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_conductor.magnum_conductor.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_db_sync.magnum_db_sync.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.magnum_db_sync.magnum_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.conductor
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.conductor.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.conductor.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.conductor.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.conductor.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string

- Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*

- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string

- Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.user.magnum.uid
 - Type: int
 - Description:
 - *42424*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *magnum-keystone-admin*
- secrets.identity.magnum
 - Type: string
 - Description:
 - *magnum-keystone-user*

- secrets.identity.magnum_stack_user
 - Type: string
 - Description:
 - *magnum-keystone-stack-user*
- secrets.oci_image_registry.magnum
 - Type: string
 - Description:
 - *magnum-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *magnum-db-admin*
- secrets.oslo_db.magnum
 - Type: string
 - Description:
 - *magnum-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *magnum-rabbitmq-admin*
- secrets.oslo_messaging.magnum
 - Type: string
 - Description:
 - *magnum-rabbitmq-user*

3.13 Manila

There are various customizations you can do to tailor the deployment of OpenStack Manila. You can find those below.

3.13.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *true*
- bootstrap.ks_user

- Type: string
 - Description:
 - *admin*
- bootstrap.script
 - Type: string
 - Description:
 - *nil*
- bootstrap.structured.flavors.manila-service-flavor.disk
 - Type: int
 - Description:
 - *5*
- bootstrap.structured.flavors.manila-service-flavor.ephemeral
 - Type: int
 - Description:
 - *0*
- bootstrap.structured.flavors.manila-service-flavor.id
 - Type: int
 - Description:
 - *100*
- bootstrap.structured.flavors.manila-service-flavor.name
 - Type: string
 - Description:
 - *manila-service-flavor*
- bootstrap.structured.flavors.manila-service-flavor.public
 - Type: bool
 - Description:
 - *true*
- bootstrap.structured.flavors.manila-service-flavor.ram
 - Type: int
 - Description:
 - *512*
- bootstrap.structured.flavors.manila-service-flavor.vcpus
 - Type: int
 - Description:

- *1*
- bootstrap.structured.images.manila-service-image.container_format
 - Type: string
 - Description:
 - *bare*
- bootstrap.structured.images.manila-service-image.id
 - Type: string
 - Description:
 - *nil*
- bootstrap.structured.images.manila-service-image.image_file
 - Type: string
 - Description:
 - *manila-service-image-master.qcow2*
- bootstrap.structured.images.manila-service-image.image_type
 - Type: string
 - Description:
 - *qcow2*
- bootstrap.structured.images.manila-service-image.name
 - Type: string
 - Description:
 - *manila-service-image*
- bootstrap.structured.images.manila-service-image.private
 - Type: bool
 - Description:
 - *false*
- bootstrap.structured.images.manila-service-image.source_url
 - Type: string
 - Description:
 - *<https://tarballs.opendev.org/openstack/manila-image-elements/images/>*
- conf.logging.formatter_context.class
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- conf.logging.formatter_context.datefmt

- Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - *()*
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:

- *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - *(sys.stdout,)*
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`

- Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:

- *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_manila.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_manila.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_manila.qualname`
 - Type: string
 - Description:
 - *manila*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`

- Type: string
 - Description:
 - *stderr*
- conf.logging.logger_sqlalchemy.level
 - Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_sqlalchemy.qualname
 - Type: string
 - Description:
 - *sqlalchemy*
- conf.logging.loggers.keys[0]
 - Type: string
 - Description:
 - *root*
- conf.logging.loggers.keys[1]
 - Type: string
 - Description:
 - *manila*
- conf.manila.DEFAULT.api_paste_config
 - Type: string
 - Description:
 - */etc/manila/api-paste.ini*
- conf.manila.DEFAULT.default_share_group_type
 - Type: string
 - Description:
 - *default*
- conf.manila.DEFAULT.default_share_type
 - Type: string
 - Description:
 - *default*
- conf.manila.DEFAULT.enabled_share_backends
 - Type: string
 - Description:

- *generic*
- `conf.manila.DEFAULT.enabled_share_protocols`
 - Type: string
 - Description:
 - *NFS*
- `conf.manila.DEFAULT.rootwrap_config`
 - Type: string
 - Description:
 - */etc/manila/rootwrap.conf*
- `conf.manila.DEFAULT.share_name_template`
 - Type: string
 - Description:
 - *share-%s*
- `conf.manila.cinder.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.manila.cinder.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.manila.cinder.endpoint_type`
 - Type: string
 - Description:
 - *internalURL*
- `conf.manila.cinder.memcache_security_strategy`
 - Type: string
 - Description:
 - *ENCRYPT*
- `conf.manila.database.max_retries`
 - Type: int
 - Description:
 - *-1*
- `conf.manila.generic.driver_handles_share_servers`

- Type: bool
 - Description:
 - *true*
- conf.manila.generic.service_image_name
 - Type: string
 - Description:
 - *manila-service-image*
- conf.manila.generic.service_instance_flavor_id
 - Type: int
 - Description:
 - *100*
- conf.manila.generic.service_instance_password
 - Type: string
 - Description:
 - *manila*
- conf.manila.generic.service_instance_user
 - Type: string
 - Description:
 - *manila*
- conf.manila.generic.share_backend_name
 - Type: string
 - Description:
 - *GENERIC*
- conf.manila.generic.share_driver
 - Type: string
 - Description:
 - *manila.share.drivers.generic.GenericShareDriver*
- conf.manila.glance.auth_type
 - Type: string
 - Description:
 - *password*
- conf.manila.glance.auth_version
 - Type: string
 - Description:

- v3
- conf.manila.glance.endpoint_type
 - Type: string
 - Description:
 - *internalURL*
- conf.manila.glance.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.manila.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.manila.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - v3
- conf.manila.keystone_authtoken.endpoint_type
 - Type: string
 - Description:
 - *internalURL*
- conf.manila.keystone_authtoken.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.manila.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *sharev2*
- conf.manila.neutron.auth_type
 - Type: string
 - Description:
 - *password*
- conf.manila.neutron.auth_version

- Type: string
 - Description:
 - *v3*
- conf.manila.neutron.endpoint_type
 - Type: string
 - Description:
 - *internalURL*
- conf.manila.neutron.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.manila.nova.auth_type
 - Type: string
 - Description:
 - *password*
- conf.manila.nova.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.manila.nova.endpoint_type
 - Type: string
 - Description:
 - *internalURL*
- conf.manila.nova.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.manila.oslo_concurrency.lock_path
 - Type: string
 - Description:
 - */var/lib/manila/tmp*
- conf.manila.oslo_messaging_notifications.driver
 - Type: string
 - Description:

- *messagingv2*
- `conf.manila.oslo_messaging_rabbit.rabbit_ha_queues`
 - Type: `bool`
 - Description:
 - *true*
- `conf.manila.oslo_middleware.enable_proxy_headers_parsing`
 - Type: `bool`
 - Description:
 - *true*
- `conf.manila.oslo_policy.policy_file`
 - Type: `string`
 - Description:
 - */etc/manila/policy.yaml*
- `conf.manila_api_uwsgi.uwsgi.add-header`
 - Type: `string`
 - Description:
 - *Connection: close*
- `conf.manila_api_uwsgi.uwsgi.buffer-size`
 - Type: `int`
 - Description:
 - *65535*
- `conf.manila_api_uwsgi.uwsgi.die-on-term`
 - Type: `bool`
 - Description:
 - *true*
- `conf.manila_api_uwsgi.uwsgi.enable-threads`
 - Type: `bool`
 - Description:
 - *true*
- `conf.manila_api_uwsgi.uwsgi.exit-on-reload`
 - Type: `bool`
 - Description:
 - *false*
- `conf.manila_api_uwsgi.uwsgi.hook-master-start`

- Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- conf.manila_api_uwsgi.uwsgi.lazy-apps
 - Type: bool
 - Description:
 - *true*
- conf.manila_api_uwsgi.uwsgi.log-x-forwarded-for
 - Type: bool
 - Description:
 - *true*
- conf.manila_api_uwsgi.uwsgi.master
 - Type: bool
 - Description:
 - *true*
- conf.manila_api_uwsgi.uwsgi.procname-prefix-spaced
 - Type: string
 - Description:
 - *manila-api:*
- conf.manila_api_uwsgi.uwsgi.route-user-agent
 - Type: string
 - Description:
 - *^kprobe.* donotlog:*
- conf.manila_api_uwsgi.uwsgi.thunder-lock
 - Type: bool
 - Description:
 - *true*
- conf.manila_api_uwsgi.uwsgi.worker-reload-mercy
 - Type: int
 - Description:
 - *80*
- conf.manila_api_uwsgi.uwsgi.wsgi-file
 - Type: string
 - Description:

- */var/lib/openstack/bin/manila-wsgi*
- `conf.manila_sudoers`
 - Type: string
 - Description:
 - ```
This sudoers file supports rootwrap for both Kolla and LOCI Images.
Defaults !requiretty
Defaults secure_path=\"/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/
↪bin:/sbin:/bin:/snap/bin:/var/lib/openstack/bin:/var/lib/kolla/
↪venv/bin\"
manila ALL = (root) NOPASSWD: /var/lib/kolla/venv/bin/manila-
↪rootwrap /etc/manila/rootwrap.conf *, /var/lib/openstack/bin/
↪manila-rootwrap /etc/manila/rootwrap.conf *
```
- `conf.paste.app:api.paste.app_factory`
  - Type: string
  - Description:
    - *manila.api.v1.router:APIRouter.factory*
- `conf.paste.app:apiv2.paste.app_factory`
  - Type: string
  - Description:
    - *manila.api.v2.router:APIRouter.factory*
- `conf.paste.app:healthcheck.paste.app_factory`
  - Type: string
  - Description:
    - *oslo\_middleware:Healthcheck.app\_factory*
- `conf.paste.app:healthcheck.backends`
  - Type: string
  - Description:
    - *disable\_by\_file*
- `conf.paste.app:healthcheck.disable_by_file_path`
  - Type: string
  - Description:
    - */etc/manila/healthcheck\_disable*
- `conf.paste.app:osshareversionapp.paste.app_factory`
  - Type: string
  - Description:
    - *manila.api.versions:VersionsRouter.factory*

- `conf.paste.composite:openstack_share_api.keystone`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler authtoken keystonecontext api*
- `conf.paste.composite:openstack_share_api.keystone_nolimit`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler authtoken keystonecontext api*
- `conf.paste.composite:openstack_share_api.noauth`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler noauth api*
- `conf.paste.composite:openstack_share_api.use`
  - Type: string
  - Description:
    - *call:manila.api.middleware.auth:pipeline\_factory*
- `conf.paste.composite:openstack_share_api_v2.keystone`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler authtoken keystonecontext apiv2*
- `conf.paste.composite:openstack_share_api_v2.keystone_nolimit`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler authtoken keystonecontext apiv2*
- `conf.paste.composite:openstack_share_api_v2.noauth`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler noauth apiv2*
- `conf.paste.composite:openstack_share_api_v2.noauthv2`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi sizelimit osprofiler noauthv2 apiv2*
- `conf.paste.composite:openstack_share_api_v2.use`
  - Type: string

- Description:
  - *call:manila.api.middleware.auth:pipeline\_factory*
- `conf.paste.composite:osapi_share./`
  - Type: string
  - Description:
  - *apiversions*
- `conf.paste.composite:osapi_share./healthcheck`
  - Type: string
  - Description:
  - *healthcheck*
- `conf.paste.composite:osapi_share./v1`
  - Type: string
  - Description:
  - *openstack\_share\_api*
- `conf.paste.composite:osapi_share./v2`
  - Type: string
  - Description:
  - *openstack\_share\_api\_v2*
- `conf.paste.composite:osapi_share.use`
  - Type: string
  - Description:
  - *call:manila.api:root\_app\_factory*
- `conf.paste.filter:authtoken.paste.filter_factory`
  - Type: string
  - Description:
  - *keystonemiddleware.auth\_token:filter\_factory*
- `conf.paste.filter:cors.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware.cors:filter\_factory*
- `conf.paste.filter:cors.oslo_config_project`
  - Type: string
  - Description:
  - *manila*

- `conf.paste.filter:faultwrap.paste.filter_factory`
  - Type: string
  - Description:
    - *manila.api.middleware.fault:FaultWrapper.factory*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.http\_proxy\_to\_wsgi:HTTPProxyToWSGI.factory*
- `conf.paste.filter:keystonecontext.paste.filter_factory`
  - Type: string
  - Description:
    - *manila.api.middleware.auth:ManilaKeystoneContext.factory*
- `conf.paste.filter:noauth.paste.filter_factory`
  - Type: string
  - Description:
    - *manila.api.middleware.auth:NoAuthMiddleware.factory*
- `conf.paste.filter:noauthv2.paste.filter_factory`
  - Type: string
  - Description:
    - *manila.api.middleware.auth:NoAuthMiddlewarev2\_60.factory*
- `conf.paste.filter:osprofiler.paste.filter_factory`
  - Type: string
  - Description:
    - *osprofiler.web:WsgiMiddleware.factory*
- `conf.paste.filter:sizelimit.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.sizelimit:RequestBodySizeLimiter.factory*
- `conf.paste.pipeline:apiversions.pipeline`
  - Type: string
  - Description:
    - *cors faultwrap http\_proxy\_to\_wsgi osshareversionapp*
- `conf.policy`
  - Type: object

- Description:
  - *{}*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].args.max_sleep`
  - Type: int
  - Description:
  - *2*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].args.min_sleep`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].args.share_proto`
  - Type: string
  - Description:
  - *nfs*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].args.share_type`
  - Type: string
  - Description:
  - *dhss\_false*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].args.size`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.manila_share_networks.use_share_network`
  - Type: bool
  - Description:
  - *true*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.quotas.manila.gigabytes`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.quotas.manila.share_networks`
  - Type: int
  - Description:
  - *0*



- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.quotas.manila.shares`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.users.tenants`
  - Type: int
  - Description:
  - *2*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.users.user_choice_method`
  - Type: string
  - Description:
  - *round\_robin*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].context.users.users_per_tenant`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].runner.concurrency`
  - Type: int
  - Description:
  - *4*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].runner.times`
  - Type: int
  - Description:
  - *4*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.ManilaShares.create_and_delete_share[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rootwrap`
  - Type: string

– Description:

```

- # Configuration for manila-rootwrap
This file should be owned by (and only-writeable by) the root user

[DEFAULT]
List of directories to load filter definitions from (separated by ',
↪').
These directories MUST all be only writeable by root !
filters_path=/etc/manila/rootwrap.d,/usr/share/manila/rootwrap

List of directories to search executables in, in case filters do
↪not
explicitly specify a full path (separated by ',')
If not specified, defaults to system PATH environment variable.
These directories MUST all be only writeable by root !
exec_dirs=/sbin,/usr/sbin,/bin,/usr/bin,/usr/local/sbin,/usr/local/
↪bin,/usr/lpp/mmfs/bin

Enable logging to syslog
Default value is False
use_syslog=False

Which syslog facility to use.
Valid values include auth, authpriv, syslog, user0, user1...
Default value is 'syslog'
syslog_log_facility=syslog

Which messages to log.
INFO means log all usage
ERROR means only log unsuccessful attempts
syslog_log_level=ERROR

```

- `conf.rootwrap_filters.share.content`

– Type: string

– Description:

```

- # manila-rootwrap command filters for share nodes
This file should be owned by (and only-writeable by) the root user

[Filters]
manila/utils.py : 'chown', '%s', '%s'
chown: CommandFilter, chown, root
manila/utils.py : 'cat', '%s'
cat: CommandFilter, cat, root

manila/share/drivers/lvm.py: 'mkfs.ext4', '/dev/mapper/%s'
mkfs.ext4: CommandFilter, mkfs.ext4, root

manila/share/drivers/lvm.py: 'mkfs.ext3', '/dev/mapper/%s'

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mkfs.ext3: CommandFilter, mkfs.ext3, root

manila/share/drivers/lvm.py: 'smbd', '-s', '%s', '-D'
smbd: CommandFilter, smbd, root
smb: CommandFilter, smb, root

manila/share/drivers/lvm.py: 'rmdir', '%s'
rmdir: CommandFilter, rmdir, root

manila/share/drivers/lvm.py: 'dd' 'count=0', 'if=%s' % srcstr, 'of=
↪ %s'
dd: CommandFilter, dd, root

manila/share/drivers/lvm.py: 'fsck', '-pf', %s
fsck: CommandFilter, fsck, root

manila/share/drivers/lvm.py: 'resize2fs', %s
resize2fs: CommandFilter, resize2fs, root

manila/share/drivers/helpers.py: 'smbcontrol', 'all', 'close-share
↪ ', '%s'
smbcontrol: CommandFilter, smbcontrol, root

manila/share/drivers/helpers.py: 'net', 'conf', 'addshare', '%s', '
↪ %s', 'writeable=y', 'guest_ok=y
manila/share/drivers/helpers.py: 'net', 'conf', 'delshare', '%s'
manila/share/drivers/helpers.py: 'net', 'conf', 'setparm', '%s', '
↪ %s', '%s'
manila/share/drivers/helpers.py: 'net', 'conf', 'getparm', '%s',
↪ 'hosts allow'
net: CommandFilter, net, root

manila/share/drivers/helpers.py: 'cp', '%s', '%s'
cp: CommandFilter, cp, root

manila/share/drivers/helpers.py: 'service', '%s', '%s'
service: CommandFilter, service, root

manila/share/drivers/lvm.py: 'lvremove', '-f', \"%s/%s
lvremove: CommandFilter, lvremove, root

manila/share/drivers/lvm.py: 'lvextend', '-L', '%sG' '-n', %s
lvextend: CommandFilter, lvextend, root

manila/share/drivers/lvm.py: 'lvcreate', '-L', %s, '-n', %s
lvcreate: CommandFilter, lvcreate, root

manila/share/drivers/lvm.py: 'vgs', '--noheadings', '-o', 'name'
manila/share/drivers/lvm.py: 'vgs', %s, '--rows', '--units', 'g'

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vgs: CommandFilter, vgs, root

manila/share/drivers/lvm.py: 'tune2fs', '-U', 'random', '%volume-
↳snapshot%'
tune2fs: CommandFilter, tune2fs, root

manila/share/drivers/generic.py: 'sed', '-i', '\\'/%s/d\\'', '%s'
sed: CommandFilter, sed, root

manila/share/drivers/glusterfs.py: 'mkdir', '%s'
manila/share/drivers/ganessa/manager.py: 'mkdir', '-p', '%s'
mkdir: CommandFilter, mkdir, root

manila/share/drivers/glusterfs.py: 'rm', '-rf', '%s'
rm: CommandFilter, rm, root

manila/share/drivers/glusterfs.py: 'mount', '-t', 'glusterfs', '%s
↳', '%s'
manila/share/drivers/glusterfs/glusterfs_native.py: 'mount', '-t',
↳'glusterfs', '%s', '%s'
mount: CommandFilter, mount, root

manila/share/drivers/glusterfs.py: 'gluster', '--xml', 'volume',
↳'info', '%s'
manila/share/drivers/glusterfs.py: 'gluster', 'volume', 'set', '%s
↳', 'nfs.export-dir', '%s'
gluster: CommandFilter, gluster, root

manila/network/linux/ip_lib.py: 'ip', 'netns', 'exec', '%s', '%s'
ip: CommandFilter, ip, root

manila/network/linux/interface.py: 'ovs-vsctl', 'add-port', '%s', '
↳%s'
ovs-vsctl: CommandFilter, ovs-vsctl, root

manila/share/drivers/glusterfs/glusterfs_native.py: 'find', '%s',
↳'-mindepth', '1', '!', '-path', '%s', '!', '-path', '%s', '-delete'
manila/share/drivers/glusterfs/glusterfs_native.py: 'find', '%s',
↳'-mindepth', '1', '-delete'
find: CommandFilter, find, root

manila/share/drivers/glusterfs/glusterfs_native.py: 'umount', '%s'
umount: CommandFilter, umount, root

GPFS commands
manila/share/drivers/ibm/gpfs.py: 'mmgetstate', '-Y'
mmgetstate: CommandFilter, mmgetstate, root
manila/share/drivers/ibm/gpfs.py: 'mmlsattr', '%s'
mmlsattr: CommandFilter, mmlsattr, root

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manila/share/drivers/ibm/gpfs.py: 'mmcrfileset', '%s', '%s', '--
↳ inode-space', 'new'
mmcrfileset: CommandFilter, mmcrfileset, root
manila/share/drivers/ibm/gpfs.py: 'mmlinkfileset', '%s', '%s', '-J
↳ ', '%s'
mmlinkfileset: CommandFilter, mmlinkfileset, root
manila/share/drivers/ibm/gpfs.py: 'mmsetquota', '-j', '%s', '-h', '
↳ %s', '%s'
mmsetquota: CommandFilter, mmsetquota, root
manila/share/drivers/ibm/gpfs.py: 'mmunlinkfileset', '%s', '%s', '-
↳ f'
mmunlinkfileset: CommandFilter, mmunlinkfileset, root
manila/share/drivers/ibm/gpfs.py: 'mmdelfileset', '%s', '%s', '-f'
mmdelfileset: CommandFilter, mmdelfileset, root
manila/share/drivers/ibm/gpfs.py: 'mmcrsnapshot', '%s', '%s', '-j',
↳ '%s'
mmcrsnapshot: CommandFilter, mmcrsnapshot, root
manila/share/drivers/ibm/gpfs.py: 'mmdelsnapshot', '%s', '%s', '-j
↳ ', '%s'
mmdelsnapshot: CommandFilter, mmdelsnapshot, root
manila/share/drivers/ibm/gpfs.py: 'rsync', '-rp', '%s', '%s'
rsync: CommandFilter, rsync, root
manila/share/drivers/ibm/gpfs.py: 'exportfs'
exportfs: CommandFilter, exportfs, root
manila/share/drivers/ibm/gpfs.py: 'stat', '--format=%F', '%s'
stat: CommandFilter, stat, root
manila/share/drivers/ibm/gpfs.py: 'df', '-P', '-B', '1', '%s'
df: CommandFilter, df, root
manila/share/drivers/ibm/gpfs.py: 'chmod', '777', '%s'
chmod: CommandFilter, chmod, root
manila/share/drivers/ibm/gpfs.py: 'mmnfs', 'export', '%s', '%s'
mmnfs: CommandFilter, mmnfs, root
manila/share/drivers/ibm/gpfs.py: 'mmlsfileset', '%s', '-J', '%s',
↳ '-L'
mmlsfileset: CommandFilter, mmlsfileset, root
manila/share/drivers/ibm/gpfs.py: 'mmchfileset', '%s', '-J', '%s',
↳ '-j', '%s'
mmchfileset: CommandFilter, mmchfileset, root
manila/share/drivers/ibm/gpfs.py: 'mmlsquota', '-j', '-J', '%s', '
↳ %s'
mmlsquota: CommandFilter, mmlsquota, root

manila/share/drivers/ganesha/manager.py: 'mv', '%s', '%s'
mv: CommandFilter, mv, root

manila/share/drivers/ganesha/manager.py: 'mktemp', '-p', '%s', '-t
↳ ', '%s'
mktemp: CommandFilter, mktemp, root

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manila/share/drivers/ganesha/manager.py:
shcat: RegExpFilter, sh, root, sh, -c, echo '((.|\\
)*)' > /. *

manila/share/drivers/ganesha/manager.py:
dbus-addexport: RegExpFilter, dbus-send, root, dbus-send, --print-
↳reply, --system, --dest=org\\.ganesha\\.nfsd, /org/ganesha/nfsd/
↳ExportMgr, org\\.ganesha\\.nfsd\\.exportmgr\\. (Add|Remove)Export, .
↳*, .*

manila/share/drivers/ganesha/manager.py:
dbus-removeexport: RegExpFilter, dbus-send, root, dbus-send, --print-
↳reply, --system, --dest=org\\.ganesha\\.nfsd, /org/ganesha/nfsd/
↳ExportMgr, org\\.ganesha\\.nfsd\\.exportmgr\\. (Add|Remove)Export, .
↳*

manila/share/drivers/ganesha/manager.py:
dbus-updateexport: RegExpFilter, dbus-send, root, dbus-send, --print-
↳reply, --system, --dest=org\\.ganesha\\.nfsd, /org/ganesha/nfsd/
↳ExportMgr, org\\.ganesha\\.nfsd\\.exportmgr\\.UpdateExport, .*, .*

manila/share/drivers/ganesha/manager.py:
rmconf: RegExpFilter, sh, root, sh, -c, rm -f /.*/*\\.conf$

ZFS commands
manila/share/drivers/zfsonlinux/driver.py
manila/share/drivers/zfsonlinux/utils.py
zpool: CommandFilter, zpool, root

manila/share/drivers/zfsonlinux/driver.py
manila/share/drivers/zfsonlinux/utils.py
zfs: CommandFilter, zfs, root

manila/share/drivers/zfsonlinux/driver.py
kill: CommandFilter, kill, root

manila/data/utils.py: 'ls', '-pA1', '--group-directories-first', '
↳%s'
ls: CommandFilter, ls, root

manila/data/utils.py: 'touch', '--reference=%s', '%s'
touch: CommandFilter, touch, root

manila/share/drivers/container/container.py: docker <whatever>
docker: CommandFilter, docker, root

manila/share/drivers/container/container.py: brctl <whatever>
brctl: CommandFilter, brctl, root

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```
manila/share/drivers/container/storage_helper.py: e2fsck <whatever>
manila/share/drivers/generic.py: e2fsck <whatever>
manila/share/drivers/lvm.py: e2fsck <whatever>
e2fsck: CommandFilter, e2fsck, root

manila/share/drivers/lvm.py: lvconvert --merge %s
lvconvert: CommandFilter, lvconvert, root

manila/data/utils.py: 'sha256sum', '%s'
sha256sum: CommandFilter, sha256sum, root

manila/utils.py: 'tee', '%s'
tee: CommandFilter, tee, root

manila/share/drivers/container/storage_helper.py: lvs -o lv_size --
↪noheadings --nosuffix --units g <device>
lvs: CommandFilter, lvs, root

manila/share/drivers/container/storage_helper.py: lvrename --
↪autobackup n <old_name> <new_name>
lvrename: CommandFilter, lvrename, root
```

- conf.rootwrap\_filters.share.pods[0]
  - Type: string
  - Description:
  - *share*
- dependencies.dynamic.common.local\_image\_registry.jobs[0]
  - Type: string
  - Description:
  - *manila-image-repo-sync*
- dependencies.dynamic.common.local\_image\_registry.services[0].endpoint
  - Type: string
  - Description:
  - *node*
- dependencies.dynamic.common.local\_image\_registry.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.static.api.jobs[0]
  - Type: string
  - Description:

- *manila-db-sync*
- dependencies.static.api.jobs[1]
  - Type: string
  - Description:
    - *manila-ks-user*
- dependencies.static.api.jobs[2]
  - Type: string
  - Description:
    - *manila-ks-endpoints*
- dependencies.static.api.jobs[3]
  - Type: string
  - Description:
    - *manila-rabbit-init*
- dependencies.static.api.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.api.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[1].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.api.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[2].service



- Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.data.jobs[0]
  - Type: string
  - Description:
    - *manila-db-sync*
- dependencies.static.data.jobs[1]
  - Type: string
  - Description:
    - *manila-ks-user*
- dependencies.static.data.jobs[2]
  - Type: string
  - Description:
    - *manila-ks-endpoints*
- dependencies.static.data.jobs[3]
  - Type: string
  - Description:
    - *manila-rabbit-init*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:

- *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string
  - Description:
  - *manila-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
  - *manila-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_service.services[0].endpoint

- Type: string
- Description:
- *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.rabbit\_init.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.rabbit\_init.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.scheduler.jobs[0]
  - Type: string
  - Description:
  - *manila-db-sync*
- dependencies.static.scheduler.jobs[1]
  - Type: string
  - Description:
  - *manila-ks-user*
- dependencies.static.scheduler.jobs[2]
  - Type: string
  - Description:

- *manila-ks-endpoints*
- dependencies.static.scheduler.jobs[3]
  - Type: string
  - Description:
    - *manila-rabbit-init*
- dependencies.static.scheduler.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.scheduler.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.scheduler.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.scheduler.services[1].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.scheduler.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.scheduler.services[2].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.share.jobs[0]
  - Type: string
  - Description:
    - *manila-db-sync*
- dependencies.static.share.jobs[1]

- Type: string
  - Description:
  - *manila-ks-user*
- dependencies.static.share.jobs[2]
  - Type: string
  - Description:
  - *manila-ks-endpoints*
- dependencies.static.share.jobs[3]
  - Type: string
  - Description:
  - *manila-rabbit-init*
- dependencies.static.share.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.share.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.share.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.share.services[1].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.share.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.share.services[2].service
  - Type: string
  - Description:

- *oslo\_messaging*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
    - *cluster.local*
- endpoints.fluentd.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
    - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
    - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
    - *24220*
- endpoints.fluentd.port.service.default
  - Type: int
  - Description:
    - *24224*
- endpoints.fluentd.scheme

- Type: string
- Description:
- *http*
- endpoints.identity.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.manila.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.manila.project\_domain\_name
  - Type: string
  - Description:

- *service*
- endpoints.identity.auth.manila.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.manila.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.manila.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.manila.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.manila.username
  - Type: string
  - Description:
    - *manila*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
    - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
    - *keystone-api*
- endpoints.identity.name



- Type: string
  - Description:
    - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
    - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
    - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
    - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:

- 80
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
  - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
  - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
  - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
  - 53
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
  - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default

- Type: string
  - Description:
  - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
  - *5000*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
  - *false*
- endpoints.oci\_image\_registry.auth.manila.password
  - Type: string
  - Description:

- *password*
- endpoints.oci\_image\_registry.auth.manila.username
  - Type: string
  - Description:
    - *manila*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
    - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.hosts.default

- Type: string
  - Description:
    - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
    - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
    - *root*
- endpoints.oslo\_db.auth.manila.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.manila.username
  - Type: string
  - Description:
    - *manila*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:

- *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
    - */manila*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
    - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
    - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_messaging.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *rabbitmq-tls-direct*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
    - *rabbitmq*
- endpoints.oslo\_messaging.auth.manila.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_messaging.auth.manila.username
  - Type: string
  - Description:
    - *manila*
- endpoints.oslo\_messaging.host\_fqdn\_override.default

- Type: string
  - Description:
  - *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
  - */manila*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
  - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int
  - Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*
- endpoints.share.host\_fqdn\_override.default
  - Type: string
  - Description:

- *nil*
- endpoints.share.hosts.default
  - Type: string
  - Description:
    - *manila-api*
- endpoints.share.hosts.public
  - Type: string
  - Description:
    - *manila*
- endpoints.share.name
  - Type: string
  - Description:
    - *manila*
- endpoints.share.path.default
  - Type: string
  - Description:
    - */v1*
- endpoints.share.port.api.default
  - Type: int
  - Description:
    - *8786*
- endpoints.share.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.share.port.api.service
  - Type: int
  - Description:
    - *8786*
- endpoints.share.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.share.scheme.service



- Type: string
- Description:
- *http*
- endpoints.sharev2.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.sharev2.hosts.default
  - Type: string
  - Description:
  - *manila-api*
- endpoints.sharev2.hosts.public
  - Type: string
  - Description:
  - *manila*
- endpoints.sharev2.name
  - Type: string
  - Description:
  - *manilav2*
- endpoints.sharev2.path.default
  - Type: string
  - Description:
  - */v2*
- endpoints.sharev2.port.api.default
  - Type: int
  - Description:
  - *8786*
- endpoints.sharev2.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.sharev2.port.api.service
  - Type: int
  - Description:

- 8786
- endpoints.sharev2.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.sharev2.scheme.service
  - Type: string
  - Description:
  - *http*
- helm3\_hook
  - Type: bool
  - Description:
  - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
  - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
  - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
  - *IfNotPresent*
- images.tags.bootstrap
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_drop

- Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
    - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu\_focal*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
    - *docker.io/docker:17.07.0*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.manila\_api
  - Type: string
  - Description:
    - *quay.io/airshipit/manila:2024.1-ubuntu\_jammy*
- images.tags.manila\_data
  - Type: string
  - Description:

- *quay.io/airshipit/manila:2024.1-ubuntu\_jammy*
- images.tags.manila\_db\_sync
  - Type: string
  - Description:
    - *quay.io/airshipit/manila:2024.1-ubuntu\_jammy*
- images.tags.manila\_scheduler
  - Type: string
  - Description:
    - *quay.io/airshipit/manila:2024.1-ubuntu\_jammy*
- images.tags.manila\_share
  - Type: string
  - Description:
    - *quay.io/airshipit/manila:2024.1-ubuntu\_jammy*
- images.tags.rabbit\_init
  - Type: string
  - Description:
    - *docker.io/rabbitmq:3.13-management*
- labels.api.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.api.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.data.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.data.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.job.node\_selector\_key

- Type: string
  - Description:
    - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.scheduler.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.scheduler.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.share.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.share.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- manifests.certificates
  - Type: bool
  - Description:

- *false*
- manifests.configmap\_bin
  - Type: bool
  - Description:
  - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_api
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_data
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_scheduler
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_share
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_api
  - Type: bool
  - Description:
  - *true*
- manifests.job\_bootstrap
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_drop

- Type: bool
  - Description:
    - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:
    - *true*
- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
    - *true*
- manifests.network\_policy
  - Type: bool
  - Description:

- *false*
- manifests.pdb\_api
  - Type: bool
  - Description:
  - *true*
- manifests.pod\_test
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_ingress\_tls
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_registry
  - Type: bool
  - Description:
  - *true*
- manifests.service\_api
  - Type: bool
  - Description:
  - *true*
- manifests.service\_ingress\_api



- Type: bool
  - Description:
    - *true*
- network.api.external\_policy\_local
  - Type: bool
  - Description:
    - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
    - /
- network.api.ingress.classes.cluster
  - Type: string
  - Description:
    - *nginx-cluster*
- network.api.ingress.classes.namespace
  - Type: string
  - Description:
    - *nginx*
- network.api.ingress.public
  - Type: bool
  - Description:
    - *true*
- network.api.node\_port.enabled
  - Type: bool
  - Description:
    - *false*
- network.api.node\_port.port
  - Type: int
  - Description:
    - *30486*
- network\_policy.manila.egress[0]
  - Type: object
  - Description:

- {}
- network\_policy.manila.ingress[0]
  - Type: object
  - Description:
  - {}
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
  - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.api.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.disruption\_budget.share.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.disruption\_budget.scheduler.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history

- Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - 1
- pod.mounts.manila\_api.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_api.manila\_api.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_api.manila\_api.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_bootstrap.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_bootstrap.manila\_bootstrap.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_bootstrap.manila\_bootstrap.volumes
  - Type: string
  - Description:

- *nil*
- pod.mounts.manila\_data.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_data.manila\_data.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_data.manila\_data.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_db\_sync.manila\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_db\_sync.manila\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_scheduler.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_scheduler.manila\_scheduler.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_scheduler.manila\_scheduler.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_share.init\_container

- Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_share.manila\_share.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_share.manila\_share.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_tests.manila\_tests.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.manila\_tests.manila\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.replicas.api
  - Type: int
  - Description:
  - *1*
- pod.replicas.data
  - Type: int
  - Description:
  - *1*
- pod.replicas.scheduler
  - Type: int
  - Description:

- *1*
- pod.replicas.share
  - Type: int
  - Description:
  - *1*
- pod.resources.api.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.api.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.api.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.api.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.data.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.data.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.data.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.data.requests.memory

- Type: string
  - Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.jobs.bootstrap.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.bootstrap.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:

- *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory



- Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:

- *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu

- Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.scheduler.limits.cpu
  - Type: string
  - Description:

- *2000m*
- pod.resources.scheduler.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.scheduler.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.scheduler.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.share.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.share.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.share.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.share.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.security\_context.manila.container.manila\_api.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.manila.container.manila\_api.readOnlyRootFilesystem

- Type: bool
  - Description:
  - *true*
- pod.security\_context.manila.container.manila\_data.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.manila.container.manila\_data.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.manila.container.manila\_scheduler.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.manila.container.manila\_scheduler.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.manila.container.manila\_share.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.manila.container.manila\_share.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.manila.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.test.container.manila\_test.allowPrivilegeEscalation
  - Type: bool
  - Description:

- *false*
- pod.security\_context.test.container.manila\_test.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.test.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.tolerations.manila.enabled
  - Type: bool
  - Description:
  - *false*
- pod.tolerations.manila.tolerations[0].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.manila.tolerations[0].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/master*
- pod.tolerations.manila.tolerations[0].operator
  - Type: string
  - Description:
  - *Exists*
- pod.use\_fqdn.share
  - Type: bool
  - Description:
  - *true*
- release\_group
  - Type: string
  - Description:
  - *nil*
- secrets.identity.admin

- Type: string
  - Description:
    - *manila-keystone-admin*
- secrets.identity.manila
  - Type: string
  - Description:
    - *manila-keystone-user*
- secrets.oci\_image\_registry.manila
  - Type: string
  - Description:
    - *manila-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string
  - Description:
    - *manila-db-admin*
- secrets.oslo\_db.manila
  - Type: string
  - Description:
    - *manila-db-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
    - *manila-rabbitmq-admin*
- secrets.oslo\_messaging.manila
  - Type: string
  - Description:
    - *manila-rabbitmq-user*
- secrets.tls.share.api.internal
  - Type: string
  - Description:
    - *manila-tls-internal*
- secrets.tls.share.api.public
  - Type: string
  - Description:

- *manila-tls-public*
- `tls.identity`
  - Type: `bool`
  - Description:
  - *false*
- `tls.oslo_db`
  - Type: `bool`
  - Description:
  - *false*
- `tls.oslo_messaging`
  - Type: `bool`
  - Description:
  - *false*

## 3.14 Masakari

There are various customizations you can do to tailor the deployment of OpenStack Masakari. You can find those below.

### 3.14.1 General Parameters

- `conf.masakari.DEFAULT.auth_strategy`
  - Type: `string`
  - Description:
  - *keystone*
- `conf.masakari.DEFAULT.duplicate_notification_detection_interval`
  - Type: `int`
  - Description:
  - *180*
- `conf.masakari.DEFAULT.graceful_shutdown_timeout`
  - Type: `int`
  - Description:
  - *5*
- `conf.masakari.DEFAULT.host_failure_recovery_threads`
  - Type: `int`
  - Description:
  - *1*



- conf.masakari.DEFAULT.masakari\_api\_workers
  - Type: int
  - Description:
  - *1*
- conf.masakari.database.max\_retries
  - Type: int
  - Description:
  - *-1*
- conf.masakari.keystone\_authtoken.auth\_type
  - Type: string
  - Description:
  - *password*
- conf.masakari.keystone\_authtoken.service\_type
  - Type: string
  - Description:
  - *instance-ha*
- conf.masakari.taskflow.connection
  - Type: string
  - Description:
  - *nil*
- conf.masakari.wsgi.api\_paste\_config
  - Type: string
  - Description:
  - */etc/masakari/api-paste.ini*
- conf.masakari\_sudoers
  - Type: string
  - Description:

```
Defaults secure_path=\"/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/
↪bin:/sbin:/bin:/snap/bin:/var/lib/openstack/bin\"
masakari-monitors ALL=(ALL:ALL) NOPASSWD: /var/lib/openstack/bin/
↪privsep-helper
```

- conf.masakarimonitors.DEFAULT.debug
  - Type: bool
  - Description:
  - *false*

- `conf.masakarimonitors.api.api_interface`
  - Type: string
  - Description:
  - *internal*
- `conf.masakarimonitors.api.api_version`
  - Type: string
  - Description:
  - *v1*
- `conf.masakarimonitors.callback.retry_interval`
  - Type: int
  - Description:
  - *10*
- `conf.masakarimonitors.callback.retry_max`
  - Type: int
  - Description:
  - *10*
- `conf.masakarimonitors.host.corosync_multicast_ports`
  - Type: int
  - Description:
  - *5405*
- `conf.masakarimonitors.host.disable_ipmi_checks`
  - Type: bool
  - Description:
  - *true*
- `conf.masakarimonitors.host.monitoring_driver`
  - Type: string
  - Description:
  - *default*
- `conf.masakarimonitors.host.monitoring_interval`
  - Type: int
  - Description:
  - *120*
- `conf.masakarimonitors.host.monitoring_samples`
  - Type: int

- Description:
  - *1*
- `conf.masakarimonitors.host.pacemaker_node_type`
  - Type: string
  - Description:
  - *remote*
- `conf.masakarimonitors.introspectiveinstancemonitor.guest_monitor_interval`
  - Type: int
  - Description:
  - *10*
- `conf.masakarimonitors.introspectiveinstancemonitor.guest_monitor_timeout`
  - Type: int
  - Description:
  - *5*
- `conf.paste.app:apiversionsapp.paste.app_factory`
  - Type: string
  - Description:
  - *masakari.api.openstack.ha.versions:Versions.factory*
- `conf.paste.app:osapi_masakari_app_v1.paste.app_factory`
  - Type: string
  - Description:
  - *masakari.api.openstack.ha:APIRouterV1.factory*
- `conf.paste.composite:masakari_api/`
  - Type: string
  - Description:
  - *apiversions*
- `conf.paste.composite:masakari_api/v1`
  - Type: string
  - Description:
  - *masakari\_api\_v1*
- `conf.paste.composite:masakari_api.use`
  - Type: string
  - Description:
  - *call:masakari.api.urlmap:urlmap\_factory*

- `conf.paste.composite:masakari_api_v1.keystone`
  - Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi request\_id faultwrap sizelimit authtoken keystonecontext os-api\_masakari\_app\_v1*
- `conf.paste.composite:masakari_api_v1.noauth2`
  - Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi request\_id faultwrap sizelimit noauth2 osapi\_masakari\_app\_v1*
- `conf.paste.composite:masakari_api_v1.use`
  - Type: string
  - Description:
    - *call:masakari.api.auth:pipeline\_factory\_v1*
- `conf.paste.filter:authtoken.paste.filter_factory`
  - Type: string
  - Description:
    - *keystonemiddleware.auth\_token:filter\_factory*
- `conf.paste.filter:cors.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.cors:filter\_factory*
- `conf.paste.filter:cors.oslo_config_project`
  - Type: string
  - Description:
    - *masakari*
- `conf.paste.filter:faultwrap.paste.filter_factory`
  - Type: string
  - Description:
    - *masakari.api.openstack:FaultWrapper.factory*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.http\_proxy\_to\_wsgi:HTTPProxyToWSGI.factory*
- `conf.paste.filter:keystonecontext.paste.filter_factory`
  - Type: string

- Description:
- *masakari.api.auth:MasakariKeystoneContext.factory*
- `conf.paste.filter:noauth2.paste.filter_factory`
  - Type: string
  - Description:
  - *masakari.api.auth:NoAuthMiddleware.factory*
- `conf.paste.filter:request_id.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware:RequestId.factory*
- `conf.paste.filter:sizelimit.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware:RequestBodySizeLimiter.factory*
- `conf.paste.pipeline:apiversions.pipeline`
  - Type: string
  - Description:
  - *faultwrap http\_proxy\_to\_wsgi apiversionsapp*
- `dependencies.static.db_init.services[0].endpoint`
  - Type: string
  - Description:
  - *internal*
- `dependencies.static.db_init.services[0].service`
  - Type: string
  - Description:
  - *oslo\_db*
- `dependencies.static.db_sync.jobs[0]`
  - Type: string
  - Description:
  - *masakari-db-init*
- `dependencies.static.db_sync.services[0].endpoint`
  - Type: string
  - Description:
  - *internal*

- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
    - *masakari-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.masakari\_api.jobs[0]
  - Type: string

- Description:
- *masakari-db-sync*
- dependencies.static.masakari\_api.jobs[1]
  - Type: string
  - Description:
  - *masakari-ks-user*
- dependencies.static.masakari\_api.jobs[2]
  - Type: string
  - Description:
  - *masakari-ks-endpoints*
- dependencies.static.masakari\_api.jobs[3]
  - Type: string
  - Description:
  - *masakari-ks-service*
- dependencies.static.masakari\_api.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.masakari\_api.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.masakari\_engine.jobs[0]
  - Type: string
  - Description:
  - *masakari-db-sync*
- dependencies.static.masakari\_engine.jobs[1]
  - Type: string
  - Description:
  - *masakari-ks-user*
- dependencies.static.masakari\_engine.jobs[2]
  - Type: string
  - Description:
  - *masakari-ks-endpoints*

- dependencies.static.masakari\_engine.jobs[3]
  - Type: string
  - Description:
    - *masakari-ks-service*
- dependencies.static.masakari\_engine.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.masakari\_engine.services[0].service
  - Type: string
  - Description:
    - *identity*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
    - *cluster.local*
- endpoints.fluentd.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
    - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
    - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.path.default
  - Type: string



- Description:
  - *nil*
- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
  - *24220*
- endpoints.fluentd.port.service.default
  - Type: int
  - Description:
  - *24224*
- endpoints.fluentd.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.identity.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*

- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.masakari.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.masakari.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.masakari.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.masakari.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.masakari.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.masakari.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.masakari.username
  - Type: string
  - Description:
    - *masakari*
- endpoints.identity.auth.test.password
  - Type: string

- Description:
- *password*
- endpoints.identity.auth.test.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.test.project\_name
  - Type: string
  - Description:
  - *test*
- endpoints.identity.auth.test.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.test.role
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.test.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.test.username
  - Type: string
  - Description:
  - *neutron-test*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*

- endpoints.identity.hosts.internal
  - Type: string
  - Description:
    - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
    - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
    - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
    - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
    - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.namespace
  - Type: string

- Description:
  - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:
  - 80
- endpoints.instance\_ha.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.instance\_ha.hosts.default
  - Type: string
  - Description:
  - *masakari-api*
- endpoints.instance\_ha.hosts.public
  - Type: string
  - Description:
  - *masakari-api*
- endpoints.instance\_ha.name
  - Type: string
  - Description:
  - *masakari*
- endpoints.instance\_ha.path.default
  - Type: string
  - Description:
  - */v1/%(tenant\_id)s*
- endpoints.instance\_ha.port.api.default
  - Type: int
  - Description:
  - 15868
- endpoints.instance\_ha.port.api.public
  - Type: int
  - Description:
  - 80

- endpoints.instance\_ha.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
    - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
    - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
    - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
    - *53*
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
    - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string

- Description:
  - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
  - *5000*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
  - *false*

- endpoints.oci\_image\_registry.auth.masakari.password
  - Type: string
  - Description:
    - *password*
- endpoints.oci\_image\_registry.auth.masakari.username
  - Type: string
  - Description:
    - *masakari*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
    - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
    - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string



- Description:
- *nil*
- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
  - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
  - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
  - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
  - *root*
- endpoints.oslo\_db.auth.masakari.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.masakari.username
  - Type: string
  - Description:
  - *masakari*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*

- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:
    - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
    - */masakari*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
    - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
    - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_messaging.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *rabbitmq-tls-direct*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
    - *rabbitmq*
- endpoints.oslo\_messaging.auth.masakari.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_messaging.auth.masakari.username
  - Type: string

- Description:
  - *masakari*
- endpoints.oslo\_messaging.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
  - */masakari*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
  - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int
  - Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*

- helm3\_hook
  - Type: bool
  - Description:
    - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
    - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
    - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
    - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
    - *IfNotPresent*
- images.tags.db\_drop
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_sync
  - Type: string
  - Description:
    - *docker.io/openstackhelm/masakari:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string

- Description:
- *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu\_focal*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.masakari\_api
  - Type: string
  - Description:
  - *docker.io/openstackhelm/masakari:2024.1-ubuntu\_jammy*
- images.tags.masakari\_engine
  - Type: string
  - Description:
  - *docker.io/openstackhelm/masakari:2024.1-ubuntu\_jammy*
- images.tags.masakari\_host\_monitor
  - Type: string
  - Description:
  - *docker.io/openstackhelm/masakari-monitors:2024.1-ubuntu\_jammy*
- images.tags.masakari\_instance\_monitor
  - Type: string
  - Description:
  - *docker.io/openstackhelm/masakari-monitors:2024.1-ubuntu\_jammy*
- images.tags.masakari\_process\_monitor
  - Type: string
  - Description:
  - *docker.io/openstackhelm/masakari-monitors:2024.1-ubuntu\_jammy*

- images.tags.rabbit\_init
  - Type: string
  - Description:
    - *docker.io/rabbitmq:3.13-management*
- labels.job.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.masakari.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.masakari.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.monitors.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-compute-node*
- labels.monitors.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string

- Description:
  - *enabled*
- manifests.configmap\_bin
  - Type: bool
  - Description:
  - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_api
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_engine
  - Type: bool
  - Description:
  - *true*
- manifests.host\_monitor
  - Type: bool
  - Description:
  - *false*
- manifests.instance\_monitor
  - Type: bool
  - Description:
  - *false*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
  - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
  - *true*

- manifests.job\_db\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:
    - *true*
- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
    - *true*
- manifests.pdb\_api
  - Type: bool
  - Description:
    - *true*
- manifests.process\_monitor
  - Type: bool
  - Description:
    - *false*
- manifests.secret\_db
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_keystone
  - Type: bool



- Description:
  - *true*
- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_registry
  - Type: bool
  - Description:
  - *true*
- manifests.service\_api
  - Type: bool
  - Description:
  - *true*
- network.masakari\_api.external\_policy\_local
  - Type: bool
  - Description:
  - *false*
- network.masakari\_api.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.masakari\_api.node\_port.port
  - Type: int
  - Description:
  - *33033*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
  - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*

- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.masakari\_api.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.disruption\_budget.masakari\_engine.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.termination\_grace\_period.masakari\_api.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.termination\_grace\_period.masakari\_engine.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.upgrades.daemonsets.compute.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.compute.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.compute.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.pod\_replacement\_strategy
  - Type: string

- Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - 1
- pod.mounts.masakari\_api.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_api.masakari\_api.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_api.masakari\_api.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_db\_init.masakari\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.masakari\_db\_init.masakari\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_db\_sync.masakari\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_db\_sync.masakari\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_engine.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_engine.masakari\_engine.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_engine.masakari\_engine.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_host\_monitor.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_host\_monitor.masakari\_host\_monitor.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_host\_monitor.masakari\_host\_monitor.volumes
  - Type: string

- Description:
- *nil*
- pod.mounts.masakari\_instance\_monitor.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_instance\_monitor.masakari\_instance\_monitor.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_instance\_monitor.masakari\_instance\_monitor.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_ks\_service.masakari\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_ks\_service.masakari\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_ks\_users.masakari\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_ks\_users.masakari\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_process\_monitor.init\_container
  - Type: string
  - Description:
  - *nil*

- pod.mounts.masakari\_process\_monitor.masakari\_process\_monitor.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.masakari\_process\_monitor.masakari\_process\_monitor.volumes
  - Type: string
  - Description:
  - *nil*
- pod.probes.masakari-engine.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.masakari-engine.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.masakari-engine.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.masakari-engine.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.masakari-engine.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.masakari-engine.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.masakari-engine.default.readiness.params.periodSeconds
  - Type: int

- Description:
  - *60*
- pod.probes.masakari-engine.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.masakari.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.masakari.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*
- pod.probes.masakari.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.masakari.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.masakari.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.masakari.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *80*
- pod.probes.masakari.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *90*

- pod.probes.masakari.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.rpc\_retries
  - Type: int
  - Description:
  - *2*
- pod.probes.rpc\_timeout
  - Type: int
  - Description:
  - *60*
- pod.replicas.masakari\_api
  - Type: int
  - Description:
  - *1*
- pod.replicas.masakari\_engine
  - Type: int
  - Description:
  - *1*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string



- Description:
  - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*

- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string

- Description:
  - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*

- pod.resources.masakari\_api.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.masakari\_api.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.masakari\_api.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.masakari\_api.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.masakari\_engine.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.masakari\_engine.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.masakari\_engine.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.masakari\_engine.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.masakari\_host\_monitor.limits.cpu
  - Type: string

- Description:
  - *2000m*
- pod.resources.masakari\_host\_monitor.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.masakari\_host\_monitor.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.masakari\_host\_monitor.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.masakari\_instance\_monitor.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.masakari\_instance\_monitor.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.masakari\_instance\_monitor.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.masakari\_instance\_monitor.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.masakari\_process\_monitor.limits.cpu
  - Type: string
  - Description:
  - *2000m*

- pod.resources.masakari\_process\_monitor.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.masakari\_process\_monitor.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.masakari\_process\_monitor.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.security\_context.masakari.container.masakari\_api.allowPrivilegeEscalation
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.masakari.container.masakari\_api.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.masakari.container.masakari\_api.runAsUser
  - Type: int
  - Description:
    - *42424*
- pod.security\_context.masakari.container.masakari\_db\_sync.allowPrivilegeEscalation
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.masakari.container.masakari\_db\_sync.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.masakari.container.masakari\_db\_sync.runAsUser
  - Type: int

- Description:
- *42424*
- pod.security\_context.masakari.container.masakari\_engine.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.masakari.container.masakari\_engine.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.masakari.container.masakari\_engine.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.masakari.container.masakari\_host\_monitor.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.masakari.container.masakari\_host\_monitor.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.masakari.container.masakari\_host\_monitor.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.masakari.container.masakari\_instance\_monitor.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.masakari.container.masakari\_instance\_monitor.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*

- pod.security\_context.masakari.container.masakari\_instance\_monitor.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.masakari.container.masakari\_process\_monitir.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.masakari.container.masakari\_process\_monitir.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.masakari.container.masakari\_process\_monitir.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.masakari.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.test.container.horizon\_test.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.test.container.horizon\_test.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.test.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- secrets.identity.admin
  - Type: string



- Description:
  - *masakari-keystone-admin*
- secrets.identity.masakari
  - Type: string
  - Description:
  - *masakari-keystone-user*
- secrets.identity.test
  - Type: string
  - Description:
  - *masakari-keystone-test*
- secrets.oci\_image\_registry.masakari
  - Type: string
  - Description:
  - *masakari-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string
  - Description:
  - *masakari-db-admin*
- secrets.oslo\_db.masakari
  - Type: string
  - Description:
  - *masakari-db-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
  - *masakari-rabbitmq-admin*
- secrets.oslo\_messaging.masakari
  - Type: string
  - Description:
  - *masakari-rabbitmq-user*

## 3.15 Mistral

There are various customizations you can do to tailor the deployment of OpenStack Mistral. You can find those below.

### 3.15.1 General Parameters

- bootstrap.enabled
  - Type: bool
  - Description:
    - *false*
- bootstrap.ks\_user
  - Type: string
  - Description:
    - *mistral*
- bootstrap.script
  - Type: string
  - Description:
    - `openstack token issue`
- conf.logging.formatter\_context.class
  - Type: string
  - Description:
    - *oslo\_log.formatters.ContextFormatter*
- conf.logging.formatter\_context.datefmt
  - Type: string
  - Description:
    - *%Y-%m-%d %H:%M:%S*
- conf.logging.formatter\_default.datefmt
  - Type: string
  - Description:
    - *%Y-%m-%d %H:%M:%S*
- conf.logging.formatter\_default.format
  - Type: string
  - Description:
    - *%(message)s*
- conf.logging.formatters.keys[0]
  - Type: string
  - Description:
    - *context*
- conf.logging.formatters.keys[1]

- Type: string
  - Description:
  - *default*
- `conf.logging.handler_null.args`
  - Type: string
  - Description:
  - `()`
- `conf.logging.handler_null.class`
  - Type: string
  - Description:
  - `logging.NullHandler`
- `conf.logging.handler_null.formatter`
  - Type: string
  - Description:
  - *default*
- `conf.logging.handler_stderr.args`
  - Type: string
  - Description:
  - `(sys.stderr,)`
- `conf.logging.handler_stderr.class`
  - Type: string
  - Description:
  - `StreamHandler`
- `conf.logging.handler_stderr.formatter`
  - Type: string
  - Description:
  - *context*
- `conf.logging.handler_stdout.args`
  - Type: string
  - Description:
  - `(sys.stdout,)`
- `conf.logging.handler_stdout.class`
  - Type: string
  - Description:

- *StreamHandler*
- `conf.logging.handler_stdout.formatter`
  - Type: string
  - Description:
  - *context*
- `conf.logging.handlers.keys[0]`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.handlers.keys[1]`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.handlers.keys[2]`
  - Type: string
  - Description:
  - *null*
- `conf.logging.logger_amqp.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqp.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_amqp.qualname`
  - Type: string
  - Description:
  - *amqp*
- `conf.logging.logger_amqplib.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqplib.level`

- Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_amqplib.qualname`
  - Type: string
  - Description:
  - *amqplib*
- `conf.logging.logger_boto.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_boto.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_boto.qualname`
  - Type: string
  - Description:
  - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_eventletwsgi.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
  - Type: string
  - Description:
  - *eventlet.wsgi.server*
- `conf.logging.logger_mistral.handlers[0]`
  - Type: string
  - Description:

- *stdout*
- `conf.logging.logger_mistral.level`
  - Type: string
  - Description:
  - *INFO*
- `conf.logging.logger_mistral.qualname`
  - Type: string
  - Description:
  - *mistral*
- `conf.logging.logger_root.handlers`
  - Type: string
  - Description:
  - *null*
- `conf.logging.logger_root.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_sqlalchemy.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
  - Type: string
  - Description:
  - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
  - Type: string
  - Description:
  - *root*
- `conf.logging.loggers.keys[1]`

- Type: string
  - Description:
    - *mistral*
- conf.mistral.DEFAULT.log\_config\_append
  - Type: string
  - Description:
    - */etc/mistral/logging.conf*
- conf.mistral.DEFAULT.transport\_url
  - Type: string
  - Description:
    - *nil*
- conf.mistral.api.api\_workers
  - Type: int
  - Description:
    - *8*
- conf.mistral.api.port
  - Type: string
  - Description:
    - *nil*
- conf.mistral.coordination.backend\_url
  - Type: string
  - Description:
    -
- conf.mistral.database.max\_retries
  - Type: int
  - Description:
    - *-1*
- conf.mistral.keystone\_authtoken.auth\_type
  - Type: string
  - Description:
    - *password*
- conf.mistral.keystone\_authtoken.auth\_version
  - Type: string
  - Description:

- v3
- conf.mistral.keystone\_authtoken.memcache\_security\_strategy
  - Type: string
  - Description:
  - *ENCRYPT*
- conf.mistral.oslo\_policy.policy\_file
  - Type: string
  - Description:
  - */etc/mistral/policy.yaml*
- conf.policy
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.run\_tempest
  - Type: bool
  - Description:
  - *false*
- conf.rally\_tests.templates[0].name
  - Type: string
  - Description:
  - */tmp/rally-jobs/mistral\_wb.yaml*
- conf.rally\_tests.templates[0].template
  - Type: string
  - Description:

```

- version: \"2.0\"
 name: wb
 workflows:
 wf1:
 type: direct
 input:
 - input1: input1
 - some_json_input: {}
 tasks:
 hello:
 action: std.echo output=\"Hello\"
 publish:
 result: $

```

- conf.rally\_tests.templates[1].name



- Type: string
- Description:
- */tmp/rally-jobs/mistral\_input.json*
- `conf.rally_tests.templates[1].template`
  - Type: string
  - Description:
  - ```
{ "input1": "value1", "some_json_input": {"a": "b"}}
```
- `conf.rally_tests.templates[2].name`
 - Type: string
 - Description:
 - */tmp/rally-jobs/mistral_params.json*
- `conf.rally_tests.templates[2].template`
 - Type: string
 - Description:
 - ```
{ "env": {"env_param": "env_param_value"}}
```
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].args.definition`
  - Type: string
  - Description:
  - */tmp/rally-jobs/mistral\_wb.yaml*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].args.do_delete`
  - Type: bool
  - Description:
  - *true*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].args.params`
  - Type: string
  - Description:
  - */tmp/rally-jobs/mistral\_params.json*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].args.wf_input`
  - Type: string
  - Description:
  - */tmp/rally-jobs/mistral\_input.json*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].args.workflow_name`
  - Type: string

- Description:
  - *wf1*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.MistralExecutions.create_execution_from_workbook[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.MistralExecutions.list_executions[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.MistralExecutions.list_executions[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.MistralExecutions.list_executions[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.MistralExecutions.list_executions[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*

- `conf.rally_tests.tests.MistralWorkbooks.create_workbook[0].args.definition`
  - Type: string
  - Description:
    - */tmp/rally-jobs/mistral\_wb.yaml*
- `conf.rally_tests.tests.MistralWorkbooks.create_workbook[0].args.do_delete`
  - Type: bool
  - Description:
    - *true*
- `conf.rally_tests.tests.MistralWorkbooks.create_workbook[0].runner.concurrency`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.MistralWorkbooks.create_workbook[0].runner.times`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.MistralWorkbooks.create_workbook[0].runner.type`
  - Type: string
  - Description:
    - *constant*
- `conf.rally_tests.tests.MistralWorkbooks.create_workbook[0].sla.failure_rate.max`
  - Type: int
  - Description:
    - *0*
- `conf.rally_tests.tests.MistralWorkbooks.list_workbooks[0].runner.concurrency`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.MistralWorkbooks.list_workbooks[0].runner.times`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.MistralWorkbooks.list_workbooks[0].runner.type`
  - Type: string

- Description:
  - *constant*
- `conf.rally_tests.tests.MistralWorkbooks.list_workbooks[0].sla.failure_rate.max`
  - Type: `int`
  - Description:
  - *0*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
  - Type: `string`
  - Description:
  - *mistral-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`
  - Type: `string`
  - Description:
  - *node*
- `dependencies.dynamic.common.local_image_registry.services[0].service`
  - Type: `string`
  - Description:
  - *local\_image\_registry*
- `dependencies.static.api.jobs[0]`
  - Type: `string`
  - Description:
  - *mistral-db-sync*
- `dependencies.static.api.jobs[1]`
  - Type: `string`
  - Description:
  - *mistral-ks-user*
- `dependencies.static.api.jobs[2]`
  - Type: `string`
  - Description:
  - *mistral-ks-endpoints*
- `dependencies.static.api.jobs[3]`
  - Type: `string`
  - Description:
  - *mistral-rabbit-init*

- dependencies.static.api.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.api.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[1].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string

- Description:
  - *mistral-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.engine.jobs[0]
  - Type: string
  - Description:
  - *mistral-db-sync*
- dependencies.static.engine.jobs[1]
  - Type: string
  - Description:
  - *mistral-ks-user*
- dependencies.static.engine.jobs[2]
  - Type: string
  - Description:
  - *mistral-ks-endpoints*
- dependencies.static.engine.jobs[3]
  - Type: string
  - Description:
  - *mistral-rabbit-init*
- dependencies.static.engine.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.engine.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*

- dependencies.static.engine.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.engine.services[1].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.event\_engine.jobs[0]
  - Type: string
  - Description:
  - *mistral-db-sync*
- dependencies.static.event\_engine.jobs[1]
  - Type: string
  - Description:
  - *mistral-ks-user*
- dependencies.static.event\_engine.jobs[2]
  - Type: string
  - Description:
  - *mistral-ks-endpoints*
- dependencies.static.event\_engine.jobs[3]
  - Type: string
  - Description:
  - *mistral-rabbit-init*
- dependencies.static.event\_engine.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.event\_engine.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.event\_engine.services[1].endpoint
  - Type: string

- Description:
  - *internal*
- dependencies.static.event\_engine.services[1].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.executor.jobs[0]
  - Type: string
  - Description:
  - *mistral-db-sync*
- dependencies.static.executor.jobs[1]
  - Type: string
  - Description:
  - *mistral-ks-user*
- dependencies.static.executor.jobs[2]
  - Type: string
  - Description:
  - *mistral-ks-endpoints*
- dependencies.static.executor.jobs[3]
  - Type: string
  - Description:
  - *mistral-rabbit-init*
- dependencies.static.executor.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.executor.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.executor.services[1].endpoint
  - Type: string
  - Description:
  - *internal*



- dependencies.static.executor.services[1].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
  - *mistral-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string

- Description:
  - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.rabbit\_init.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.rabbit\_init.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.tests.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.tests.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.tests.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.tests.services[1].service
  - Type: string
  - Description:
  - *workflowv2*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
  - *cluster.local*

- endpoints.fluentd.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
  - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
  - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
  - *24220*
- endpoints.fluentd.port.service.default
  - Type: int
  - Description:
  - *24224*
- endpoints.fluentd.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.identity.auth.admin.password
  - Type: string

- Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.mistral.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.mistral.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.mistral.project\_name
  - Type: string
  - Description:
  - *service*

- endpoints.identity.auth.mistral.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.mistral.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.mistral.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.mistral.username
  - Type: string
  - Description:
    - *mistral*
- endpoints.identity.auth.test.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.test.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.test.project\_name
  - Type: string
  - Description:
    - *test*
- endpoints.identity.auth.test.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.test.role
  - Type: string

- Description:
  - *admin*
- endpoints.identity.auth.test.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.test.username
  - Type: string
  - Description:
  - *mistral-test*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
  - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
  - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
  - *80*

- endpoints.identity.port.api.internal
  - Type: int
  - Description:
    - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string
  - Description:
    - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
    - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int

- Description:
  - *5000*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
  - *false*
- endpoints.oci\_image\_registry.auth.mistral.password
  - Type: string
  - Description:
  - *password*
- endpoints.oci\_image\_registry.auth.mistral.username
  - Type: string
  - Description:
  - *mistral*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
  - *nil*



- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
  - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
  - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
  - *root*
- endpoints.oslo\_db.auth.mistral.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.mistral.username
  - Type: string
  - Description:
  - *mistral*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string

- Description:
  - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:
  - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
  - */mistral*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.auth.mistral.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.mistral.username
  - Type: string
  - Description:
  - *mistral*

- endpoints.oslo\_messaging.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
  - */mistral*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
  - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int
  - Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*
- endpoints.workflowv2.host\_fqdn\_override.default
  - Type: string

- Description:
  - *nil*
- endpoints.workflowv2.hosts.default
  - Type: string
  - Description:
  - *mistral-api*
- endpoints.workflowv2.hosts.public
  - Type: string
  - Description:
  - *mistral*
- endpoints.workflowv2.name
  - Type: string
  - Description:
  - *mistral*
- endpoints.workflowv2.path.default
  - Type: string
  - Description:
  - *v2*
- endpoints.workflowv2.port.api.default
  - Type: int
  - Description:
  - *8989*
- endpoints.workflowv2.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.workflowv2.scheme.default
  - Type: string
  - Description:
  - *http*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*

- images.local\_registry.exclude[0]
  - Type: string
  - Description:
    - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
    - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
    - *IfNotPresent*
- images.tags.bootstrap
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_drop
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
    - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu\_focal*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
    - *docker.io/docker:17.07.0*
- images.tags.ks\_endpoints
  - Type: string

- Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.mistral\_api
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-mistral-api:wallaby*
- images.tags.mistral\_db\_sync
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-mistral-api:wallaby*
- images.tags.mistral\_engine
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-mistral-engine:wallaby*
- images.tags.mistral\_event\_engine
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-mistral-engine:wallaby*
- images.tags.mistral\_executor
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-mistral-executor:wallaby*
- images.tags.rabbit\_init
  - Type: string
  - Description:
  - *docker.io/rabbitmq:3.13-management*

- images.tags.test
  - Type: string
  - Description:
    - *docker.io/xrally/xrally-openstack:2.0.0*
- labels.api.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.api.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.engine.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.engine.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.event\_engine.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.event\_engine.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.executor.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.executor.node\_selector\_value
  - Type: string

- Description:
  - *enabled*
- labels.job.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- manifests.configmap\_bin
  - Type: bool
  - Description:
  - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_api
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_executor
  - Type: bool
  - Description:
  - *true*



- manifests.ingress\_api
  - Type: bool
  - Description:
    - *true*
- manifests.job\_bootstrap
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
    - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user
  - Type: bool

- Description:
  - *true*
- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
  - *true*
- manifests.network\_policy
  - Type: bool
  - Description:
  - *false*
- manifests.pdb\_api
  - Type: bool
  - Description:
  - *true*
- manifests.pod\_rally\_test
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_registry
  - Type: bool
  - Description:
  - *true*

- manifests.service\_api
  - Type: bool
  - Description:
  - *true*
- manifests.service\_ingress\_api
  - Type: bool
  - Description:
  - *true*
- manifests.statefulset\_engine
  - Type: bool
  - Description:
  - *true*
- manifests.statefulset\_event\_engine
  - Type: bool
  - Description:
  - *true*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /
- network.api.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.api.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.api.ingress.public
  - Type: bool
  - Description:
  - *true*
- network.api.node\_port.enabled
  - Type: bool

- Description:
  - *false*
- network.api.node\_port.port
  - Type: int
  - Description:
  - 28989
- network\_policy.mistral.egress[0]
  - Type: object
  - Description:
  - *{}*
- network\_policy.mistral.ingress[0]
  - Type: object
  - Description:
  - *{}*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
  - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.api.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.termination\_grace\_period.api.timeout
  - Type: int
  - Description:
  - *30*

- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - 1
- pod.mounts.mistral\_api.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_api.mistral\_api.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_api.mistral\_api.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_bootstrap.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_bootstrap.mistral\_bootstrap.volumeMounts
  - Type: string

- Description:
  - *nil*
- pod.mounts.mistral\_bootstrap.mistral\_bootstrap.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_db\_sync.mistral\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_db\_sync.mistral\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_engine.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_engine.mistral\_engine.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_engine.mistral\_engine.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_event\_engine.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_event\_engine.mistral\_event\_engine.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.mistral\_event\_engine.mistral\_event\_engine.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_executor.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_executor.mistral\_executor.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_executor.mistral\_executor.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_tests.mistral\_tests.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.mistral\_tests.mistral\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.replicas.api
  - Type: int
  - Description:
  - *1*
- pod.replicas.engine
  - Type: int

- Description:
  - *1*
- pod.replicas.event\_engine
  - Type: int
  - Description:
  - *1*
- pod.replicas.executor
  - Type: int
  - Description:
  - *1*
- pod.resources.api.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.api.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.api.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.api.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.engine.limits.cpu
  - Type: string
  - Description:
  - *2000m*



- pod.resources.engine.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.engine.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.engine.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.event\_engine.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.event\_engine.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.event\_engine.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.event\_engine.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.executor.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.executor.limits.memory
  - Type: string

- Description:
  - *1024Mi*
- pod.resources.executor.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.executor.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.bootstrap.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
  - *1024Mi*

- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string

- Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
  - *100m*

- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string

- Description:
  - *128Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
  - *128Mi*

- pod.user.mistral.uid
  - Type: int
  - Description:
    - *1000*
- release\_group
  - Type: string
  - Description:
    - *nil*
- secrets.identity.admin
  - Type: string
  - Description:
    - *mistral-keystone-admin*
- secrets.identity.mistral
  - Type: string
  - Description:
    - *mistral-keystone-user*
- secrets.identity.test
  - Type: string
  - Description:
    - *mistral-keystone-test*
- secrets.oci\_image\_registry.mistral
  - Type: string
  - Description:
    - *mistral-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string
  - Description:
    - *mistral-db-admin*
- secrets.oslo\_db.mistral
  - Type: string
  - Description:
    - *mistral-db-user*
- secrets.oslo\_messaging.admin
  - Type: string

- Description:
- *mistral-rabbitmq-admin*
- secrets.oslo\_messaging.mistral
  - Type: string
  - Description:
  - *mistral-rabbitmq-user*

## 3.16 Monasca

There are various customizations you can do to tailor the deployment of OpenStack Monasca. You can find those below.

### 3.16.1 General Parameters

- bootstrap.enabled
  - Type: bool
  - Description:
  - *false*
- bootstrap.ks\_user
  - Type: string
  - Description:
  - *monasca*
- bootstrap.script
  - Type: string
  - Description:
  - *nil*
- conf.agent.Api.amplifier
  - Type: int
  - Description:
  - *0*
- conf.agent.Api.backlog\_send\_rate
  - Type: int
  - Description:
  - *1000*
- conf.agent.Api.ca\_file
  - Type: string
  - Description:



- *nil*
- `conf.agent.Api.insecure`
  - Type: `bool`
  - Description:
  - *false*
- `conf.agent.Api.max_batch_size`
  - Type: `int`
  - Description:
  - *0*
- `conf.agent.Api.max_buffer_size`
  - Type: `int`
  - Description:
  - *1000*
- `conf.agent.Api.max_measurement_buffer_size`
  - Type: `int`
  - Description:
  - *-1*
- `conf.agent.Api.service_type`
  - Type: `string`
  - Description:
  - *monitoring*
- `conf.agent.Logging.collector_log_file`
  - Type: `string`
  - Description:
  - */var/log/monasca/agent/collector.log*
- `conf.agent.Logging.disable_file_logging`
  - Type: `bool`
  - Description:
  - *false*
- `conf.agent.Logging.enable_logrotate`
  - Type: `bool`
  - Description:
  - *true*
- `conf.agent.Logging.forwarder_log_file`

- Type: string
  - Description:
    - */var/log/monasca/agent/forwarder.log*
- conf.agent.Logging.log\_level
  - Type: string
  - Description:
    - *WARN*
- conf.agent.Logging.log\_to\_event\_viewer
  - Type: bool
  - Description:
    - *false*
- conf.agent.Logging.log\_to\_syslog
  - Type: bool
  - Description:
    - *false*
- conf.agent.Logging.statsd\_log\_file
  - Type: string
  - Description:
    - */var/log/monasca/agent/statsd.log*
- conf.agent.Logging.syslog\_host
  - Type: string
  - Description:
    - *None*
- conf.agent.Logging.syslog\_port
  - Type: string
  - Description:
    - *None*
- conf.agent.Main.autorestart
  - Type: bool
  - Description:
    - *false*
- conf.agent.Main.check\_freq
  - Type: int
  - Description:

- 15
- conf.agent.Main.collector\_restart\_interval
  - Type: int
  - Description:
  - 24
- conf.agent.Main.dimensions.service
  - Type: string
  - Description:
  - *monitoring*
- conf.agent.Main.forwarder\_url
  - Type: string
  - Description:
  - *http://%FORWARDER\_IP%:17123*
- conf.agent.Main.hostname
  - Type: string
  - Description:
  - *%AGENT\_HOSTNAME%*
- conf.agent.Main.non\_local\_traffic
  - Type: bool
  - Description:
  - *true*
- conf.agent.Main.num\_collector\_threads
  - Type: int
  - Description:
  - 1
- conf.agent.Main.pool\_full\_max\_retries
  - Type: int
  - Description:
  - 4
- conf.agent.Main.sub\_collection\_warn
  - Type: int
  - Description:
  - 6
- conf.agent.Statsd.monasca\_statsd\_interval

- Type: int
  - Description:
  - 20
- conf.agent.Statsd.monasca\_statsd\_port
  - Type: int
  - Description:
  - 8125
- conf.agent\_plugins.libvirt.auto\_detect
  - Type: bool
  - Description:
  - *false*
- conf.agent\_plugins.libvirt.config.init\_config
  - Type: object
  - Description:
  - *{}*
- conf.check\_scripts
  - Type: object
  - Description:
  - *{}*
- conf.detection\_scripts
  - Type: object
  - Description:
  - *{}*
- conf.logging.formatter\_context.class
  - Type: string
  - Description:
  - *oslo\_log.formatters.ContextFormatter*
- conf.logging.formatter\_context.datefmt
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*
- conf.logging.formatter\_default.datefmt
  - Type: string
  - Description:

- *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
  - Type: string
  - Description:
    - *%(message)s*
- `conf.logging.formatters.keys[0]`
  - Type: string
  - Description:
    - *context*
- `conf.logging.formatters.keys[1]`
  - Type: string
  - Description:
    - *default*
- `conf.logging.handler_null.args`
  - Type: string
  - Description:
    - *()*
- `conf.logging.handler_null.class`
  - Type: string
  - Description:
    - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
  - Type: string
  - Description:
    - *default*
- `conf.logging.handler_stderr.args`
  - Type: string
  - Description:
    - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
  - Type: string
  - Description:
    - *StreamHandler*
- `conf.logging.handler_stderr.formatter`

- Type: string
  - Description:
    - *context*
- conf.logging.handler\_stdout.args
  - Type: string
  - Description:
    - (*sys.stdout*,)
- conf.logging.handler\_stdout.class
  - Type: string
  - Description:
    - *StreamHandler*
- conf.logging.handler\_stdout.formatter
  - Type: string
  - Description:
    - *context*
- conf.logging.handlers.keys[0]
  - Type: string
  - Description:
    - *stdout*
- conf.logging.handlers.keys[1]
  - Type: string
  - Description:
    - *stderr*
- conf.logging.handlers.keys[2]
  - Type: string
  - Description:
    - *null*
- conf.logging.logger\_kafka.handlers
  - Type: string
  - Description:
    - *stdout*
- conf.logging.logger\_kafka.level
  - Type: string
  - Description:

- *DEBUG*
- `conf.logging.logger_kafka.propagate`
  - Type: int
  - Description:
  - *0*
- `conf.logging.logger_kafka.qualname`
  - Type: string
  - Description:
  - *kafka*
- `conf.logging.logger_kafkalib.handlers`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.logger_kafkalib.level`
  - Type: string
  - Description:
  - *INFO*
- `conf.logging.logger_kafkalib.propagate`
  - Type: int
  - Description:
  - *0*
- `conf.logging.logger_kafkalib.qualname`
  - Type: string
  - Description:
  - *monasca\_common.kafka\_lib*
- `conf.logging.logger_root.handlers`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.logger_root.level`
  - Type: string
  - Description:
  - *INFO*
- `conf.logging.logger_sqlalchemy.handlers`

- Type: string
  - Description:
  - *stdout*
- conf.logging.logger\_sqlalchemy.level
  - Type: string
  - Description:
  - *DEBUG*
- conf.logging.logger\_sqlalchemy.propagate
  - Type: int
  - Description:
  - *0*
- conf.logging.logger\_sqlalchemy.qualname
  - Type: string
  - Description:
  - *sqlalchemy.engine*
- conf.logging.loggers.keys[0]
  - Type: string
  - Description:
  - *root*
- conf.logging.loggers.keys[1]
  - Type: string
  - Description:
  - *sqlalchemy*
- conf.logging.loggers.keys[2]
  - Type: string
  - Description:
  - *kafka*
- conf.logging.loggers.keys[3]
  - Type: string
  - Description:
  - *kafkalib*
- conf.monasca\_api.DEFAULT.enable\_logs\_api
  - Type: bool
  - Description:



- *true*
- `conf.monasca_api.DEFAULT.log_config_append`
  - Type: string
  - Description:
    - */etc/monasca/api-logging.conf*
- `conf.monasca_api.DEFAULT.region`
  - Type: string
  - Description:
    - *RegionOne*
- `conf.monasca_api.cassandra.contact_points`
  - Type: string
  - Description:
    - *127.0.0.1*
- `conf.monasca_api.database.max_retries`
  - Type: int
  - Description:
    - *-1*
- `conf.monasca_api.influxdb.database_name`
  - Type: string
  - Description:
    - *monasca*
- `conf.monasca_api.influxdb.db_per_tenant`
  - Type: bool
  - Description:
    - *false*
- `conf.monasca_api.kafka.logs_topics`
  - Type: string
  - Description:
    - *log*
- `conf.monasca_api.kafka.uri`
  - Type: string
  - Description:
    - *127.0.0.1:9092*
- `conf.monasca_api.keystone_authtoken.auth_type`

- Type: string
  - Description:
  - *password*
- conf.monasca\_api.keystone\_authtoken.auth\_version
  - Type: string
  - Description:
  - *v3*
- conf.monasca\_api.keystone\_authtoken.memcache\_security\_strategy
  - Type: string
  - Description:
  - *ENCRYPT*
- conf.monasca\_api.messaging.driver
  - Type: string
  - Description:
  - *monasca\_api.common.messaging.kafka\_publisher:KafkaPublisher*
- conf.monasca\_api.repositories.metrics\_driver
  - Type: string
  - Description:
  - *monasca\_api.common.repositories.influxdb.metrics\_repository:MetricsRepository*
- conf.monasca\_api.security.agent\_authorized\_roles
  - Type: string
  - Description:
  - *monasca-agent*
- conf.monasca\_api.security.default\_authorized\_roles
  - Type: string
  - Description:
  - *monasca-user*
- conf.monasca\_api.security.delegate\_authorized\_roles
  - Type: string
  - Description:
  - *monasca-agent*
- conf.monasca\_api.security.read\_only\_authorized\_roles
  - Type: string
  - Description:

- *monasca-read-only-user*
- `conf.monasca_api_paste.DEFAULT.name`
  - Type: string
  - Description:
  - *monasca\_api*
- `conf.monasca_api_paste.app:api.paste.app_factory`
  - Type: string
  - Description:
  - *monasca\_api.api.server:launch*
- `conf.monasca_api_paste.filter:auth.paste.filter_factory`
  - Type: string
  - Description:
  - *monasca\_api.healthcheck.keystone\_protocol:filter\_factory*
- `conf.monasca_api_paste.filter:request_id.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware.request\_id:RequestId.factory*
- `conf.monasca_api_paste.pipeline:main.pipeline`
  - Type: string
  - Description:
  - *request\_id auth api*
- `conf.monasca_api_paste.server:main.backlog`
  - Type: int
  - Description:
  - *2048*
- `conf.monasca_api_paste.server:main.host`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.monasca_api_paste.server:main.keepalive`
  - Type: int
  - Description:
  - *2*
- `conf.monasca_api_paste.server:main.loglevel`

- Type: string
  - Description:
  - *DEBUG*
- conf.monasca\_api\_paste.server.main.port
  - Type: int
  - Description:
  - *8070*
- conf.monasca\_api\_paste.server.main.proc\_name
  - Type: string
  - Description:
  - *monasca-api*
- conf.monasca\_api\_paste.server.main.timeout
  - Type: int
  - Description:
  - *30*
- conf.monasca\_api\_paste.server.main.use
  - Type: string
  - Description:
  - *egg:gunicorn#main*
- conf.monasca\_api\_paste.server.main.worker-class
  - Type: string
  - Description:
  - *eventlet*
- conf.monasca\_api\_paste.server.main.worker-connections
  - Type: int
  - Description:
  - *2000*
- conf.monasca\_api\_paste.server.main.workers
  - Type: int
  - Description:
  - *8*
- conf.notification\_config.database.repo\_driver
  - Type: string
  - Description:

- *monasca\_notification.common.repositories.mysql.mysql\_repo:MySQLRepo*
- `conf.notification_config.email_notifier.grafana_url`
  - Type: string
  - Description:
  - *grafana:3000*
- `conf.notification_config.jira_notifier`
  - Type: object
  - Description:
  - *{}*
- `conf.notification_config.kafka.url`
  - Type: string
  - Description:
  - *kafka:9092*
- `conf.notification_config.keystone`
  - Type: object
  - Description:
  - *{}*
- `conf.notification_config.mysql`
  - Type: object
  - Description:
  - *{}*
- `conf.notification_config.notification_types.enabled[0]`
  - Type: string
  - Description:
  - *email*
- `conf.notification_config.notification_types.enabled[1]`
  - Type: string
  - Description:
  - *pagerduty*
- `conf.notification_config.notification_types.enabled[2]`
  - Type: string
  - Description:
  - *webhook*
- `conf.notification_config.notification_types.enabled[3]`

- Type: string
  - Description:
  - *jira*
- conf.notification\_config.notification\_types.enabled[4]
  - Type: string
  - Description:
  - *slack*
- conf.notification\_config.pagerduty\_notifier
  - Type: object
  - Description:
  - *{}*
- conf.notification\_config.slack\_notifier
  - Type: object
  - Description:
  - *{}*
- conf.notification\_config.webhook\_notifier
  - Type: object
  - Description:
  - *{}*
- conf.notification\_config.zookeeper.url[0]
  - Type: string
  - Description:
  - *127.0.0.1:2181*
- conf.persister\_config.DEFAULT.debug
  - Type: string
  - Description:
  - *True*
- conf.persister\_config.DEFAULT.default\_log\_levels
  - Type: string
  - Description:
  - *monasca\_common.kafka\_lib.client=INFO*
- conf.persister\_config.DEFAULT.logging\_context\_format\_string
  - Type: string
  - Description:

- *%(color)s%(levelname)s %(name)s [%(global\_request\_id)s %(request\_id)s %(project\_name)s %(user\_name)s%(color)s] %(instance)s%(color)s%(message)s*
- `conf.persister_config.DEFAULT.logging_debug_format_suffix`
  - Type: string
  - Description:
  - *{{(pid=%(process)d) %(funcName)s %(pathname)s:%(lineno)d}}*
- `conf.persister_config.DEFAULT.logging_default_format_string`
  - Type: string
  - Description:
  - *%(color)s%(levelname)s %(name)s [-%(color)s] %(instance)s%(color)s%(message)s*
- `conf.persister_config.DEFAULT.logging_exception_prefix`
  - Type: string
  - Description:
  - *ERROR %(name)s %(instance)s*
- `conf.persister_config.DEFAULT.use_syslog`
  - Type: string
  - Description:
  - *False*
- `conf.persister_config.influxdb.database_name`
  - Type: string
  - Description:
  - *monasca*
- `conf.persister_config.influxdb.db_per_tenant`
  - Type: bool
  - Description:
  - *false*
- `conf.persister_config.kafka.num_processors`
  - Type: int
  - Description:
  - *1*
- `conf.persister_config.kafka_alarm_history.batch_size`
  - Type: int
  - Description:
  - *1*
- `conf.persister_config.kafka_alarm_history.group_id`

- Type: string
  - Description:
    - *l\_alarm-state-transitions*
- conf.persister\_config.kafka\_alarm\_history.topic
  - Type: string
  - Description:
    - *alarm-state-transitions*
- conf.persister\_config.kafka\_alarm\_history.uri
  - Type: string
  - Description:
    - *kafka:9092*
- conf.persister\_config.kafka\_events
  - Type: object
  - Description:
    - *{}*
- conf.persister\_config.kafka\_metrics.batch\_size
  - Type: int
  - Description:
    - *30*
- conf.persister\_config.kafka\_metrics.group\_id
  - Type: string
  - Description:
    - *l\_metrics*
- conf.persister\_config.kafka\_metrics.topic
  - Type: string
  - Description:
    - *metrics*
- conf.persister\_config.kafka\_metrics.uri
  - Type: string
  - Description:
    - *kafka:9092*
- conf.persister\_config.repositories.alarm\_state\_history\_driver
  - Type: string
  - Description:



- *monasca\_persistor.repositories.influxdb.alarms\_history\_repository:AlarmStateHistInfluxdbRepository*
- `conf.persistor_config.repositories.metrics_driver`
  - Type: string
  - Description:
  - *monasca\_persistor.repositories.influxdb.metrics\_repository:MetricInfluxdbRepository*
- `conf.persistor_config.zookeeper.uri`
  - Type: string
  - Description:
  - *zookeeper:2181*
- `conf.software.apache2.a2dismod`
  - Type: string
  - Description:
  - *nil*
- `conf.software.apache2.a2enmod`
  - Type: string
  - Description:
  - *nil*
- `conf.software.apache2.binary`
  - Type: string
  - Description:
  - *apache2*
- `conf.software.apache2.conf_dir`
  - Type: string
  - Description:
  - */etc/apache2/conf-enabled*
- `conf.software.apache2.mods_dir`
  - Type: string
  - Description:
  - */etc/apache2/mods-available*
- `conf.software.apache2.site_dir`
  - Type: string
  - Description:
  - */etc/apache2/sites-enabled*
- `conf.software.apache2.start_parameters`

- Type: string
  - Description:
  - *-DFOREGROUND*
- conf.storm.java.library.path
  - Type: string
  - Description:
  - */usr/local/lib:/opt/local/lib:/usr/lib*
- conf.storm.logviewer.childopts
  - Type: string
  - Description:
  - *-Xmx128m*
- conf.storm.logviewer.port
  - Type: int
  - Description:
  - *8090*
- conf.storm.nimbus.childopts
  - Type: string
  - Description:
  - *-Xmx256m*
- conf.storm.nimbus.seeds[0]
  - Type: string
  - Description:
  - *127.0.0.1*
- conf.storm.nimbus.thrift.port
  - Type: int
  - Description:
  - *6627*
- conf.storm.storm.local.dir
  - Type: string
  - Description:
  - */var/storm*
- conf.storm.storm.zookeeper.port
  - Type: int
  - Description:

- *2181*
- `conf.storm.storm.zookeeper.retry.interval`
  - Type: `int`
  - Description:
  - *5000*
- `conf.storm.storm.zookeeper.retry.times`
  - Type: `int`
  - Description:
  - *60*
- `conf.storm.storm.zookeeper.root`
  - Type: `string`
  - Description:
  - */storm*
- `conf.storm.storm.zookeeper.servers[0]`
  - Type: `string`
  - Description:
  - *127.0.0.1*
- `conf.storm.storm.zookeeper.session.timeout`
  - Type: `int`
  - Description:
  - *3000*
- `conf.storm.supervisor.childopts`
  - Type: `string`
  - Description:
  - *-Xmx256m*
- `conf.storm.supervisor.slots.ports[0]`
  - Type: `int`
  - Description:
  - *6701*
- `conf.storm.supervisor.slots.ports[1]`
  - Type: `int`
  - Description:
  - *6702*
- `conf.storm.topology.acker.executors`

- Type: int
  - Description:
  - *1*
- conf.storm.topology.debug
  - Type: bool
  - Description:
  - *false*
- conf.storm.transactional.zookeeper.port
  - Type: int
  - Description:
  - *2181*
- conf.storm.transactional.zookeeper.root
  - Type: string
  - Description:
  - */storm-transactional*
- conf.storm.transactional.zookeeper.servers[0]
  - Type: string
  - Description:
  - *127.0.0.1*
- conf.storm.ui.childopts
  - Type: string
  - Description:
  - *-Xmx768m*
- conf.storm.ui.host
  - Type: string
  - Description:
  - *localhost*
- conf.storm.ui.port
  - Type: int
  - Description:
  - *8089*
- conf.storm.worker.childopts
  - Type: string
  - Description:

- *-Xmx1280m -XX:+UseConcMarkSweepGC -Dcom.sun.management.jmxremote*
- `conf.thresh_config.database.driverClass`
  - Type: string
  - Description:
  - *org.mariadb.jdbc.Driver*
- `conf.thresh_config.database.maxSize`
  - Type: int
  - Description:
  - *41*
- `conf.thresh_config.database.maxWaitForConnection`
  - Type: string
  - Description:
  - *1s*
- `conf.thresh_config.database.minSize`
  - Type: int
  - Description:
  - *8*
- `conf.thresh_config.database.password`
  - Type: string
  - Description:
  - *%THRESH\_DB\_PASSWORD%*
- `conf.thresh_config.database.properties.ssl`
  - Type: bool
  - Description:
  - *false*
- `conf.thresh_config.database.url`
  - Type: string
  - Description:
  - *jdbc:mariadb://%THRESH\_DB\_URL%*
- `conf.thresh_config.database.user`
  - Type: string
  - Description:
  - *%THRESH\_DB\_USER%*
- `conf.thresh_config.database.validationQuery`

- Type: string
  - Description:
    - */\* mysql Health Check \*/ SELECT 1*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.autoCommitEnable`
  - Type: bool
  - Description:
    - *true*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.autoCommitIntervalMs`
  - Type: int
  - Description:
    - *60000*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.autoOffsetReset`
  - Type: string
  - Description:
    - *largest*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.clientId`
  - Type: int
  - Description:
    - *1*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.consumerId`
  - Type: int
  - Description:
    - *1*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.consumerTimeoutMs`
  - Type: int
  - Description:
    - *-1*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.fetchMessageMaxBytes`
  - Type: int
  - Description:
    - *1048576*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.fetchMinBytes`
  - Type: int
  - Description:

- 1
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.fetchWaitMaxMs`
  - Type: int
  - Description:
  - 100
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.groupId`
  - Type: string
  - Description:
  - *thresh-event*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.numThreads`
  - Type: int
  - Description:
  - 1
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.queuedMaxMessageChunks`
  - Type: int
  - Description:
  - 10
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.rebalanceBackoffMs`
  - Type: int
  - Description:
  - 2000
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.rebalanceMaxRetries`
  - Type: int
  - Description:
  - 4
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.refreshLeaderBackoffMs`
  - Type: int
  - Description:
  - 200
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.socketReceiveBufferBytes`
  - Type: int
  - Description:
  - 65536
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.socketTimeoutMs`

- Type: int
  - Description:
  - *30000*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.topic`
  - Type: string
  - Description:
  - *events*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.zookeeperConnect`
  - Type: string
  - Description:
  - *127.0.0.1:2181*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.zookeeperConnectionTimeoutMs`
  - Type: int
  - Description:
  - *60000*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.zookeeperSessionTimeoutMs`
  - Type: int
  - Description:
  - *60000*
- `conf.thresh_config.eventSpoutConfig.kafkaConsumerConfiguration.zookeeperSyncTimeMs`
  - Type: int
  - Description:
  - *2000*
- `conf.thresh_config.kafkaProducerConfig.batchNumMessages`
  - Type: int
  - Description:
  - *200*
- `conf.thresh_config.kafkaProducerConfig.clientId`
  - Type: string
  - Description:
  - *Threshold\_Engine*
- `conf.thresh_config.kafkaProducerConfig.compressedTopics`
  - Type: string
  - Description:



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- `conf.thresh_config.kafkaProducerConfig.compressionCodec`
  - Type: string
  - Description:
  - *none*
- `conf.thresh_config.kafkaProducerConfig.keySerializerClass`
  - Type: string
  - Description:
  -
- `conf.thresh_config.kafkaProducerConfig.messageSendMaxRetries`
  - Type: int
  - Description:
  - 3
- `conf.thresh_config.kafkaProducerConfig.metadataBrokerList`
  - Type: string
  - Description:
  - *kafka:9092*
- `conf.thresh_config.kafkaProducerConfig.partitionerClass`
  - Type: string
  - Description:
  -
- `conf.thresh_config.kafkaProducerConfig.producerType`
  - Type: string
  - Description:
  - *sync*
- `conf.thresh_config.kafkaProducerConfig.queueBufferingMaxMessages`
  - Type: int
  - Description:
  - *10000*
- `conf.thresh_config.kafkaProducerConfig.queueBufferingMaxMs`
  - Type: int
  - Description:
  - *5000*
- `conf.thresh_config.kafkaProducerConfig.queueEnqueueTimeoutMs`

- Type: int
  - Description:
  - *-1*
- `conf.thresh_config.kafkaProducerConfig.requestRequiredAcks`
  - Type: int
  - Description:
  - *1*
- `conf.thresh_config.kafkaProducerConfig.requestTimeoutMs`
  - Type: int
  - Description:
  - *10000*
- `conf.thresh_config.kafkaProducerConfig.retryBackoffMs`
  - Type: int
  - Description:
  - *100*
- `conf.thresh_config.kafkaProducerConfig.sendBufferBytes`
  - Type: int
  - Description:
  - *102400*
- `conf.thresh_config.kafkaProducerConfig.serializerClass`
  - Type: string
  - Description:
  - *kafka.serializer.StringEncoder*
- `conf.thresh_config.kafkaProducerConfig.topic`
  - Type: string
  - Description:
  - *alarm-state-transitions*
- `conf.thresh_config.kafkaProducerConfig.topicMetadataRefreshIntervalMs`
  - Type: int
  - Description:
  - *600000*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.autoCommitEnable`
  - Type: bool
  - Description:

- *true*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.autoCommitIntervalMs`
  - Type: int
  - Description:
  - *60000*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.autoOffsetReset`
  - Type: string
  - Description:
  - *largest*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.clientId`
  - Type: int
  - Description:
  - *1*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.consumerId`
  - Type: int
  - Description:
  - *1*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.consumerTimeoutMs`
  - Type: int
  - Description:
  - *-1*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.fetchMessageMaxBytes`
  - Type: int
  - Description:
  - *1048576*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.fetchMinBytes`
  - Type: int
  - Description:
  - *1*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.fetchWaitMaxMs`
  - Type: int
  - Description:
  - *100*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.groupId`

- Type: string
  - Description:
  - *thresh-metric*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.numThreads`
  - Type: int
  - Description:
  - *1*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.queuedMaxMessageChunks`
  - Type: int
  - Description:
  - *10*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.rebalanceBackoffMs`
  - Type: int
  - Description:
  - *2000*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.rebalanceMaxRetries`
  - Type: int
  - Description:
  - *4*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.refreshLeaderBackoffMs`
  - Type: int
  - Description:
  - *200*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.socketReceiveBufferBytes`
  - Type: int
  - Description:
  - *65536*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.socketTimeoutMs`
  - Type: int
  - Description:
  - *30000*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.topic`
  - Type: string
  - Description:

- *metrics*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.zookeeperConnect`
  - Type: string
  - Description:
  - *127.0.0.1:2181*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.zookeeperConnectionTimeoutMs`
  - Type: int
  - Description:
  - *60000*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.zookeeperSessionTimeoutMs`
  - Type: int
  - Description:
  - *60000*
- `conf.thresh_config.metricSpoutConfig.kafkaConsumerConfiguration.zookeeperSyncTimeMs`
  - Type: int
  - Description:
  - *2000*
- `conf.thresh_config.metricSpoutTasks`
  - Type: int
  - Description:
  - *2*
- `conf.thresh_config.metricSpoutThreads`
  - Type: int
  - Description:
  - *2*
- `conf.thresh_config.sporadicMetricNamespaces[0]`
  - Type: string
  - Description:
  - *foo*
- `conf.thresh_config.statsdConfig.dimensions.component`
  - Type: string
  - Description:
  - *storm*
- `conf.thresh_config.statsdConfig.dimensions.service`

- Type: string
- Description:
- *monitoring*
- conf.thresh\_config.statsdConfig.host
  - Type: string
  - Description:
  - *127.0.0.1*
- conf.thresh\_config.statsdConfig.port
  - Type: int
  - Description:
  - *8125*
- conf.thresh\_config.statsdConfig.prefix
  - Type: string
  - Description:
  - *monasca.storm.*
- conf.wsgi\_monasca\_api
  - Type: string
  - Description:

```

- {{- $portInt := tuple "monitoring" "internal" "api" $ |_
 ↪include "helm-toolkit.endpoints.endpoint_port_lookup" }}

Listen 0.0.0.0:{{ $portInt }}

LogFormat "%h %l %u %t \"%r\" \"%s %b \"%{Referer}i\" \"%{User-Agent}i\" combined"
↪{{User-Agent}i\" combined
LogFormat "%{X-Forwarded-For}i %l %u %t \"%r\" \"%s %b \"%{Referer}i\" \"%{User-Agent}i\" proxy"
↪{{Referer}i\" \"%{User-Agent}i\" proxy

SetEnvIf X-Forwarded-For "^.*\\..*\\..*\\..*\\..*\\..*" forwarded
CustomLog /dev/stdout combined env=!forwarded
CustomLog /dev/stdout proxy env=forwarded

<VirtualHost *:{{ $portInt }}>
 WSGIDaemonProcess monasca-api processes=1 threads=1 user=monasca-
↪api group=monasca-api display-name={{GROUP}}
 WSGIProcessGroup monasca-api
 WSGIScriptAlias / /var/www/cgi-bin/monasca/monasca-api-wsgi
 WSGIApplicationGroup %{GLOBAL}
 WSGIPassAuthorization On
 <IfVersion >= 2.4>
 ErrorLogFormat "%{cu}t %M\"

```

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```

</IfVersion>
ErrorLog /dev/stdout

SetEnvIf X-Forwarded-For \".*\.\.\.*\.\.\.*\.\.\.*\" forwarded
CustomLog /dev/stdout combined env=!forwarded
CustomLog /dev/stdout proxy env=forwarded
</VirtualHost>

```

- dependencies.dynamic.common.local\_image\_registry.jobs[0]
  - Type: string
  - Description:
  - *image-repo-sync*
- dependencies.dynamic.common.local\_image\_registry.services[0].endpoint
  - Type: string
  - Description:
  - *node*
- dependencies.dynamic.common.local\_image\_registry.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.static.agent.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.agent.services[0].service
  - Type: string
  - Description:
  - *monitoring*
- dependencies.static.api.jobs[0]
  - Type: string
  - Description:
  - *monasca-db-sync*
- dependencies.static.api.jobs[1]
  - Type: string
  - Description:
  - *monasca-ks-service*

- dependencies.static.api.jobs[2]
  - Type: string
  - Description:
    - *monasca-ks-user*
- dependencies.static.api.jobs[3]
  - Type: string
  - Description:
    - *monasca-ks-endpoints*
- dependencies.static.api.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.api.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[1].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string



- Description:
- *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string
  - Description:
  - *monasca-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.influxdb\_init.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.influxdb\_init.services[0].service
  - Type: string
  - Description:
  - *metrics\_db*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
  - *monasca-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
  - *internal*

- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.notification.jobs[0]
  - Type: string
  - Description:
    - *monasca-db-sync*
- dependencies.static.notification.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.notification.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.persister.jobs[0]
  - Type: string

- Description:
  - *monasca-influxdb-init*
- dependencies.static.persister.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.persister.services[0].service
  - Type: string
  - Description:
  - *metrics\_db*
- dependencies.static.thresh.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.thresh.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
  - *cluster.local*
- endpoints.identity.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*

- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
    - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.monasca.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.monasca.project\_domain\_name
  - Type: string
  - Description:
    - *default*
- endpoints.identity.auth.monasca.project\_name
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.monasca.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.monasca.role[0]
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.monasca.role[1]
  - Type: string

- Description:
- *monasca-user*
- endpoints.identity.auth.monasca.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.monasca.username
  - Type: string
  - Description:
  - *monasca*
- endpoints.identity.auth.monasca\_agent.interface
  - Type: string
  - Description:
  - *private*
- endpoints.identity.auth.monasca\_agent.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.monasca\_agent.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.monasca\_agent.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.monasca\_agent.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.monasca\_agent.role
  - Type: string
  - Description:
  - *monasca-agent*

- endpoints.identity.auth.monasca\_agent.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.monasca\_agent.username
  - Type: string
  - Description:
    - *monasca-agent*
- endpoints.identity.auth.monasca\_read\_only\_user.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.monasca\_read\_only\_user.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.monasca\_read\_only\_user.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.monasca\_read\_only\_user.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.monasca\_read\_only\_user.role
  - Type: string
  - Description:
    - *monasca-read-only-user*
- endpoints.identity.auth.monasca\_read\_only\_user.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.monasca\_read\_only\_user.username
  - Type: string

- Description:
  - *monasca-read-only-user*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
  - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
  - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
  - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
  - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
  - *http*

- endpoints.ingress.hosts.default
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
    - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:
    - *80*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
    - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
    - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
    - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string



- Description:
  - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
  - 53
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
  - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*

- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
    - *5000*
- endpoints.logs.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.logs.hosts.default
  - Type: string
  - Description:
    - *monasca-api*
- endpoints.logs.hosts.public
  - Type: string
  - Description:
    - *monasca-api*
- endpoints.logs.name
  - Type: string
  - Description:
    - *monasca*
- endpoints.logs.path.default
  - Type: string
  - Description:
    - */v2.0*
- endpoints.logs.port.api.default
  - Type: int
  - Description:
    - *8070*
- endpoints.logs.port.api.public
  - Type: int

- Description:
  - *80*
- endpoints.logs.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.logs\_search.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.logs\_search.hosts.default
  - Type: string
  - Description:
  - *kibana*
- endpoints.logs\_search.hosts.public
  - Type: string
  - Description:
  - *kibana*
- endpoints.logs\_search.name
  - Type: string
  - Description:
  - *monasca*
- endpoints.logs\_search.path.default
  - Type: string
  - Description:
  - */*
- endpoints.logs\_search.port.api.default
  - Type: int
  - Description:
  - *5601*
- endpoints.logs\_search.port.api.public
  - Type: int
  - Description:
  - *80*

- endpoints.logs\_search.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.metrics\_db.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.metrics\_db.auth.admin.username
  - Type: string
  - Description:
    - *admin*
- endpoints.metrics\_db.auth.monasca\_api.password
  - Type: string
  - Description:
    - *password*
- endpoints.metrics\_db.auth.monasca\_api.username
  - Type: string
  - Description:
    - *monasca-api*
- endpoints.metrics\_db.auth.monasca\_persister.password
  - Type: string
  - Description:
    - *password*
- endpoints.metrics\_db.auth.monasca\_persister.username
  - Type: string
  - Description:
    - *monasca-persister*
- endpoints.metrics\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.metrics\_db.hosts.default
  - Type: string

- Description:
  - *influxdb*
- endpoints.metrics\_db.path
  - Type: string
  - Description:
  - /
- endpoints.metrics\_db.port.influxdb.default
  - Type: int
  - Description:
  - *8086*
- endpoints.metrics\_db.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.monitoring.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.monitoring.hosts.default
  - Type: string
  - Description:
  - *monasca-api*
- endpoints.monitoring.hosts.public
  - Type: string
  - Description:
  - *monasca-api*
- endpoints.monitoring.name
  - Type: string
  - Description:
  - *monasca*
- endpoints.monitoring.path.default
  - Type: string
  - Description:
  - */v2.0*

- endpoints.monitoring.port.api.default
  - Type: int
  - Description:
    - *8070*
- endpoints.monitoring.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.monitoring.port.forwarder.default
  - Type: int
  - Description:
    - *17123*
- endpoints.monitoring.port.forwarder.public
  - Type: int
  - Description:
    - *17123*
- endpoints.monitoring.port.statsd.default
  - Type: int
  - Description:
    - *8125*
- endpoints.monitoring.port.statsd.public
  - Type: int
  - Description:
    - *8125*
- endpoints.monitoring.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string

- Description:
  - *nil*
- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
  - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
  - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
  - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
  - *root*
- endpoints.oslo\_db.auth.monasca.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db.auth.monasca.username
  - Type: string
  - Description:
  - *monasca*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*

- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:
    - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
    - */monasca*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
    - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
    - *mysql+pymysql*
- images.local\_registry.active
  - Type: bool
  - Description:
    - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
    - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
    - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
    - *IfNotPresent*
- images.tags.db\_drop
  - Type: string



- Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
  - *quay.io/airshipit/kubernetes-entriypoint:latest-ubuntu\_focal*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
  - *docker.io/docker:17.07.0*
- images.tags.influxdb\_init
  - Type: string
  - Description:
  - *radial/busyboxplus:curl*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.monasca\_api
  - Type: string
  - Description:
  - *docker.io/openstackhelm/monasca\_api:stein-ubuntu\_bionic*

- images.tags.monasca\_collector
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca\_agent:stein-ubuntu\_bionic*
- images.tags.monasca\_db\_sync
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca:stein-ubuntu\_bionic*
- images.tags.monasca\_forwarder
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca\_forwarder:stein-ubuntu\_bionic*
- images.tags.monasca\_notification
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca\_notification:stein-ubuntu\_bionic*
- images.tags.monasca\_persister
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca\_persister:stein-ubuntu\_bionic*
- images.tags.monasca\_statsd
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca\_statsd:stein-ubuntu\_bionic*
- images.tags.monasca\_thresh
  - Type: string
  - Description:
    - *docker.io/openstackhelm/monasca\_thresh:stein-ubuntu\_bionic*
- images.tags.test
  - Type: string
  - Description:
    - *docker.io/openstackhelm/osh-selenium:latest-ubuntu\_focal*
- labels.agent.node\_selector\_key
  - Type: string

- Description:
  - *openstack-compute-node*
- labels.agent.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.api.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.api.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.job.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.notification.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.notification.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.persister.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*

- labels.persister.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.thresh.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.thresh.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- manifests.certificates
  - Type: bool
  - Description:
    - *false*
- manifests.configmap\_bin
  - Type: bool
  - Description:
    - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
    - *true*
- manifests.daemonset\_agent
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_agent
  - Type: bool
  - Description:
    - *false*
- manifests.deployment\_api
  - Type: bool

- Description:
  - *true*
- manifests.deployment\_notification
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_persister
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_api
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
  - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_influxdb\_init
  - Type: bool
  - Description:
  - *true*

- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:
    - *true*
- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
    - *false*
- manifests.job\_thresh
  - Type: bool
  - Description:
    - *true*
- manifests.network\_policy
  - Type: bool
  - Description:
    - *false*
- manifests.secret\_db
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_influxdb
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_ingress\_tls
  - Type: bool

- Description:
  - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
  - *true*
- manifests.service
  - Type: bool
  - Description:
  - *true*
- manifests.service\_ingress
  - Type: bool
  - Description:
  - *true*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /
- network.api.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.api.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.api.ingress.public
  - Type: bool
  - Description:
  - *true*
- network.external\_policy\_local
  - Type: bool
  - Description:
  - *false*

- network.node\_port.enabled
  - Type: bool
  - Description:
    - *false*
- network.node\_port.port
  - Type: int
  - Description:
    - *31000*
- network\_policy.monasca.egress[0]
  - Type: object
  - Description:
    - *{}*
- network\_policy.monasca.ingress[0]
  - Type: object
  - Description:
    - *{}*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
    - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
    - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
    - *10*
- pod.dns\_policy
  - Type: string
  - Description:
    - *ClusterFirstWithHostNet*
- pod.lifecycle.disruption\_budget.monasca.min\_available
  - Type: int



- Description:
  - *0*
- pod.lifecycle.termination\_grace\_period.monasca.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.upgrades.daemonsets.agent.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.agent.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.agent.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - *3*

- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.mounts.monasca\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[0].mountPath
  - Type: string
  - Description:
  - */var/lib/libvirt*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[0].name
  - Type: string
  - Description:
  - *varliblibvirt*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[0].readOnly
  - Type: bool
  - Description:
  - *true*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[1].mountPath
  - Type: string
  - Description:
  - */lib/modules*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[1].name
  - Type: string
  - Description:
  - *libmodules*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[1].readOnly
  - Type: bool
  - Description:
  - *true*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[2].mountPath
  - Type: string

- Description:
  - */var/lib/nova*
- pod.mounts.monasca\_agent.monasca\_collector.volumeMounts[2].name
  - Type: string
  - Description:
  - *varlibnova*
- pod.mounts.monasca\_agent.monasca\_collector.volumes[0].hostPath.path
  - Type: string
  - Description:
  - */lib/modules*
- pod.mounts.monasca\_agent.monasca\_collector.volumes[0].name
  - Type: string
  - Description:
  - *libmodules*
- pod.mounts.monasca\_agent.monasca\_collector.volumes[1].hostPath.path
  - Type: string
  - Description:
  - */var/lib/libvirt*
- pod.mounts.monasca\_agent.monasca\_collector.volumes[1].name
  - Type: string
  - Description:
  - *varliblibvirt*
- pod.mounts.monasca\_agent.monasca\_collector.volumes[2].hostPath.path
  - Type: string
  - Description:
  - */var/lib/nova*
- pod.mounts.monasca\_agent.monasca\_collector.volumes[2].name
  - Type: string
  - Description:
  - *varlibnova*
- pod.mounts.monasca\_agent.monasca\_forwarder.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.monasca\_agent.monasca\_forwarder.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_agent.monasca\_statsd.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_agent.monasca\_statsd.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_api.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_api.monasca\_api.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_api.monasca\_api.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_db\_init.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_db\_init.monasca\_db\_init.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_db\_init.monasca\_db\_init.volumes
  - Type: string

- Description:
  - *nil*
- pod.mounts.monasca\_db\_sync.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_db\_sync.monasca\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_db\_sync.monasca\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_notification.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_notification.monasca\_notification.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_notification.monasca\_notification.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_persister.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_persister.monasca\_persister.volumeMounts
  - Type: string
  - Description:
  - *nil*

- pod.mounts.monasca\_persister.monasca\_persister.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_tests.monasca\_tests.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_tests.monasca\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_thresh.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_thresh.monasca\_thresh.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.monasca\_thresh.monasca\_thresh.volumes
  - Type: string
  - Description:
  - *nil*
- pod.probes.api.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api.default.liveness.params.initialDelaySeconds
  - Type: int

- Description:
  - *120*
- pod.probes.api.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.api.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.api.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *80*
- pod.probes.api.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.api.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.forwarder.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.forwarder.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*

- pod.probes.forwarder.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.forwarder.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.forwarder.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.forwarder.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *80*
- pod.probes.forwarder.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.forwarder.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.rpc\_retries
  - Type: int
  - Description:
  - *2*
- pod.probes.rpc\_timeout
  - Type: int
  - Description:
  - *60*
- pod.probes.statsd.default
  - Type: object



- Description:
  - *{}*
- pod.replicas.agent
  - Type: int
  - Description:
  - *1*
- pod.replicas.api
  - Type: int
  - Description:
  - *1*
- pod.replicas.notification
  - Type: int
  - Description:
  - *1*
- pod.replicas.persister
  - Type: int
  - Description:
  - *1*
- pod.replicas.thresh
  - Type: int
  - Description:
  - *1*
- pod.resources.agent\_init.limits.cpu
  - Type: string
  - Description:
  - *500m*
- pod.resources.agent\_init.limits.memory
  - Type: string
  - Description:
  - *512Mi*
- pod.resources.agent\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*

- pod.resources.agent\_init.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.api.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.api.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.api.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.api.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.collector.limits.cpu
  - Type: string
  - Description:
    - *500m*
- pod.resources.collector.limits.memory
  - Type: string
  - Description:
    - *512Mi*
- pod.resources.collector.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.collector.requests.memory
  - Type: string

- Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.forwarder.limits.cpu
  - Type: string
  - Description:
  - *500m*
- pod.resources.forwarder.limits.memory
  - Type: string
  - Description:
  - *512Mi*
- pod.resources.forwarder.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.forwarder.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
  - *100m*

- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string

- Description:
- *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.influxdb\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.influxdb\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.influxdb\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.influxdb\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*

- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.notification.limits.cpu
  - Type: string
  - Description:
  - *500m*
- pod.resources.notification.limits.memory
  - Type: string
  - Description:
  - *512Mi*
- pod.resources.notification.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.notification.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.persister.limits.cpu
  - Type: string

- Description:
  - *500m*
- pod.resources.persister.limits.memory
  - Type: string
  - Description:
  - *512Mi*
- pod.resources.persister.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.persister.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.statsd.limits.cpu
  - Type: string
  - Description:
  - *500m*
- pod.resources.statsd.limits.memory
  - Type: string
  - Description:
  - *512Mi*
- pod.resources.statsd.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.statsd.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.thresh.limits.cpu
  - Type: string
  - Description:
  - *500m*

- pod.resources.thresh.limits.memory
  - Type: string
  - Description:
    - *512Mi*
- pod.resources.thresh.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.thresh.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.security\_context.agent.container.agent\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.agent.container.agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.agent.container.agent\_init.runAsUser
  - Type: int
  - Description:
    - *0*
- pod.security\_context.agent.container.monasca\_collector.allowPrivilegeEscalation
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.agent.container.monasca\_collector.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.agent.container.monasca\_collector.runAsUser
  - Type: int



- Description:
  - *0*
- pod.security\_context.agent.container.monasca\_forwarder.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.agent.container.monasca\_forwarder.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.agent.container.monasca\_forwarder.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.agent.container.monasca\_statsd.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.agent.container.monasca\_statsd.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.agent.container.monasca\_statsd.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.api.container.monasca-api.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*

- pod.security\_context.api.container.monasca-api.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.api.container.monasca-api.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.api.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.db\_sync.container.monasca\_db\_sync.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.db\_sync.container.monasca\_db\_sync.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.db\_sync.container.monasca\_db\_sync.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.db\_sync.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.influxdb\_init.container.influxdb\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.influxdb\_init.container.influxdb\_init.readOnlyRootFilesystem
  - Type: bool

- Description:
  - *false*
- pod.security\_context.influxdb\_init.container.influxdb\_init.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.influxdb\_init.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.notification.container.monasca-notification.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.notification.container.monasca-notification.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.notification.container.monasca-notification.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.notification.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.persister.container.monasca-persister.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.persister.container.monasca-persister.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*

- pod.security\_context.persister.container.monasca-persister.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.persister.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.test.container.monasca\_test.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.test.container.monasca\_test.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.test.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.thresh.container.monasca-thresh.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.thresh.container.monasca-thresh.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.thresh.container.monasca-thresh.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.thresh.pod.runAsUser
  - Type: int

- Description:
  - *42424*
- `release_group`
  - Type: string
  - Description:
  - *nil*
- `secrets.identity.admin`
  - Type: string
  - Description:
  - *monasca-keystone-admin*
- `secrets.identity.monasca`
  - Type: string
  - Description:
  - *monasca-keystone-user*
- `secrets.identity.monasca_agent`
  - Type: string
  - Description:
  - *monasca-keystone-agent*
- `secrets.identity.monasca_read_only_user`
  - Type: string
  - Description:
  - *monasca-keystone-ro*
- `secrets.identity.test`
  - Type: string
  - Description:
  - *monasca-keystone-test*
- `secrets.metrics_db`
  - Type: string
  - Description:
  - *monasca-influxdb*
- `secrets.oslo_db.admin`
  - Type: string
  - Description:
  - *monasca-db-admin*

- secrets.oslo\_db.monasca
  - Type: string
  - Description:
    - *monasca-db-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
    - *monasca-rabbitmq-admin*
- secrets.oslo\_messaging.monasca
  - Type: string
  - Description:
    - *monasca-rabbitmq-user*
- secrets.tls.events\_api.api.internal
  - Type: string
  - Description:
    - *monasca-events-tls-proxy*
- secrets.tls.events\_api.api.public
  - Type: string
  - Description:
    - *monasca-events-tls-public*
- secrets.tls.monitoring.api.internal
  - Type: string
  - Description:
    - *monasca-tls-api*
- secrets.tls.monitoring.api.public
  - Type: string
  - Description:
    - *monasca-tls-public*
- secrets.tls.monitoring.statsd.internal
  - Type: string
  - Description:
    - *monasca-tls-statsd*
- secrets.tls.monitoring.statsd.public
  - Type: string

- Description:
- *monasca-statsd-tls-public*

## 3.17 Neutron

There are various customizations you can do to tailor the deployment of OpenStack Neutron. You can find those below.

### 3.17.1 General Parameters

- bootstrap.enabled
  - Type: bool
  - Description:
  - *false*
- bootstrap.ks\_user
  - Type: string
  - Description:
  - *neutron*
- bootstrap.script
  - Type: string
  - Description:
  - `openstack token issue`
- conf.api\_audit\_map.DEFAULT.target\_endpoint\_type
  - Type: string
  - Description:
  - *None*
- conf.api\_audit\_map.custom\_actions.add\_router\_interface
  - Type: string
  - Description:
  - *update/add*
- conf.api\_audit\_map.custom\_actions.remove\_router\_interface
  - Type: string
  - Description:
  - *update/remove*
- conf.api\_audit\_map.path\_keywords.floatingips
  - Type: string
  - Description:

- *ip*
- conf.api\_audit\_map.path\_keywords.health\_monitors
  - Type: string
  - Description:
  - *health\_monitor*
- conf.api\_audit\_map.path\_keywords.healthmonitors
  - Type: string
  - Description:
  - *healthmonitor*
- conf.api\_audit\_map.path\_keywords.lb
  - Type: string
  - Description:
  - *None*
- conf.api\_audit\_map.path\_keywords.members
  - Type: string
  - Description:
  - *member*
- conf.api\_audit\_map.path\_keywords.metering-label-rules
  - Type: string
  - Description:
  - *rule*
- conf.api\_audit\_map.path\_keywords.metering-labels
  - Type: string
  - Description:
  - *label*
- conf.api\_audit\_map.path\_keywords.networks
  - Type: string
  - Description:
  - *network*
- conf.api\_audit\_map.path\_keywords.pools
  - Type: string
  - Description:
  - *pool*
- conf.api\_audit\_map.path\_keywords.ports



- Type: string
  - Description:
    - *port*
- conf.api\_audit\_map.path\_keywords.quotas
  - Type: string
  - Description:
    - *quota*
- conf.api\_audit\_map.path\_keywords.routers
  - Type: string
  - Description:
    - *router*
- conf.api\_audit\_map.path\_keywords.security-group-rules
  - Type: string
  - Description:
    - *rule*
- conf.api\_audit\_map.path\_keywords.security-groups
  - Type: string
  - Description:
    - *security-group*
- conf.api\_audit\_map.path\_keywords.subnets
  - Type: string
  - Description:
    - *subnet*
- conf.api\_audit\_map.path\_keywords.vips
  - Type: string
  - Description:
    - *vip*
- conf.api\_audit\_map.service\_endpoints.network
  - Type: string
  - Description:
    - *service/network*
- conf.auto\_bridge\_add.br-ex
  - Type: string
  - Description:

- *nil*
- `conf.bagpipe_bgp`
  - Type: object
  - Description:
  - `{}`
- `conf.bgp_dragent`
  - Type: object
  - Description:
  - `{}`
- `conf.dhcp_agent.DEFAULT.dnsmasq_config_file`
  - Type: string
  - Description:
  - `/etc/neutron/dnsmasq.conf`
- `conf.dhcp_agent.DEFAULT.force_metadata`
  - Type: bool
  - Description:
  - `true`
- `conf.dhcp_agent.DEFAULT.interface_driver`
  - Type: string
  - Description:
  - *nil*
- `conf.dnsmasq`
  - Type: string
  - Description:

```
- #no-hosts
#port=5353
#cache-size=500
#no-negcache
#dns-forward-max=100
#resolve-file=
#strict-order
#bind-interface
#bind-dynamic
#domain=
#dhcp-range=10.10.10.10,10.10.10.100,24h
#dhcp-lease-max=150
#dhcp-host=11:22:33:44:55:66,ignore
```

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```
#dhcp-option=3,10.10.10.1
#dhcp-option-force=26,1450
```

- `conf.l3_agent.DEFAULT.agent_mode`
  - Type: string
  - Description:
  - *legacy*
- `conf.l3_agent.DEFAULT.interface_driver`
  - Type: string
  - Description:
  - *nil*
- `conf.logging.formatter_context.class`
  - Type: string
  - Description:
  - *oslo\_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
  - Type: string
  - Description:
  - *%(message)s*
- `conf.logging.formatters.keys[0]`
  - Type: string
  - Description:
  - *context*
- `conf.logging.formatters.keys[1]`
  - Type: string
  - Description:
  - *default*

- `conf.logging.handler_null.args`
  - Type: string
  - Description:
  - ()
- `conf.logging.handler_null.class`
  - Type: string
  - Description:
  - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
  - Type: string
  - Description:
  - *default*
- `conf.logging.handler_stderr.args`
  - Type: string
  - Description:
  - (*sys.stderr,*)
- `conf.logging.handler_stderr.class`
  - Type: string
  - Description:
  - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
  - Type: string
  - Description:
  - *context*
- `conf.logging.handler_stdout.args`
  - Type: string
  - Description:
  - (*sys.stdout,*)
- `conf.logging.handler_stdout.class`
  - Type: string
  - Description:
  - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
  - Type: string

- Description:
  - *context*
- `conf.logging.handlers.keys[0]`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.handlers.keys[1]`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.handlers.keys[2]`
  - Type: string
  - Description:
  - *null*
- `conf.logging.logger_amqp.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqp.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_amqp.qualname`
  - Type: string
  - Description:
  - *amqp*
- `conf.logging.logger_amqplib.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqplib.level`
  - Type: string
  - Description:
  - *WARNING*

- `conf.logging.logger_amqplib.qualname`
  - Type: string
  - Description:
    - *amqplib*
- `conf.logging.logger_boto.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_boto.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_boto.qualname`
  - Type: string
  - Description:
    - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_eventletwsgi.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
  - Type: string
  - Description:
    - *eventlet.wsgi.server*
- `conf.logging.logger_neutron.handlers[0]`
  - Type: string
  - Description:
    - *stdout*
- `conf.logging.logger_neutron.level`
  - Type: string

- Description:
  - *INFO*
- `conf.logging.logger_neutron.qualname`
  - Type: string
  - Description:
  - *neutron*
- `conf.logging.logger_neutron_taaS.handlers[0]`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.logger_neutron_taaS.level`
  - Type: string
  - Description:
  - *INFO*
- `conf.logging.logger_neutron_taaS.qualname`
  - Type: string
  - Description:
  - *neutron\_taaS*
- `conf.logging.logger_root.handlers`
  - Type: string
  - Description:
  - *null*
- `conf.logging.logger_root.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_sqlalchemy.level`
  - Type: string
  - Description:
  - *WARNING*

- `conf.logging.logger_sqlalchemy.qualname`
  - Type: string
  - Description:
    - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
  - Type: string
  - Description:
    - *root*
- `conf.logging.loggers.keys[1]`
  - Type: string
  - Description:
    - *neutron*
- `conf.logging.loggers.keys[2]`
  - Type: string
  - Description:
    - *neutron\_taaS*
- `conf.metadata_agent.DEFAULT.metadata_proxy_shared_secret`
  - Type: string
  - Description:
    - *password*
- `conf.metadata_agent.DEFAULT.metadata_proxy_socket`
  - Type: string
  - Description:
    - */var/lib/neutron/openstack-helm/metadata\_proxy*
- `conf.metadata_agent.cache.backend`
  - Type: string
  - Description:
    - *dogpile.cache.memcached*
- `conf.metadata_agent.cache.enabled`
  - Type: bool
  - Description:
    - *true*
- `conf.metering_agent`
  - Type: string



- Description:
  - *nil*
- `conf.netoffload.asap2`
  - Type: string
  - Description:
  - *nil*
- `conf.netoffload.enabled`
  - Type: bool
  - Description:
  - *false*
- `conf.neutron.DEFAULT.allow_automatic_l3agent_failover`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.DEFAULT.allow_overlapping_ips`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.DEFAULT.api_workers`
  - Type: int
  - Description:
  - *1*
- `conf.neutron.DEFAULT.bind_port`
  - Type: string
  - Description:
  - *nil*
- `conf.neutron.DEFAULT.core_plugin`
  - Type: string
  - Description:
  - *ml2*
- `conf.neutron.DEFAULT.default_availability_zones`
  - Type: string
  - Description:
  - *nova*

- `conf.neutron.DEFAULT.interface_driver`
  - Type: string
  - Description:
  - *nil*
- `conf.neutron.DEFAULT.l3_ha`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.DEFAULT.l3_ha_network_type`
  - Type: string
  - Description:
  - *vxlan*
- `conf.neutron.DEFAULT.log_config_append`
  - Type: string
  - Description:
  - */etc/neutron/logging.conf*
- `conf.neutron.DEFAULT.max_l3_agents_per_router`
  - Type: int
  - Description:
  - *2*
- `conf.neutron.DEFAULT.metadata_proxy_socket`
  - Type: string
  - Description:
  - */var/lib/neutron/openstack-helm/metadata\_proxy*
- `conf.neutron.DEFAULT.network_auto_schedule`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.DEFAULT.router_auto_schedule`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.DEFAULT.rpc_workers`
  - Type: int

- Description:
  - 4
- `conf.neutron.DEFAULT.service_plugins`
  - Type: string
  - Description:
  - *router*
- `conf.neutron.DEFAULT.state_path`
  - Type: string
  - Description:
  - */var/lib/neutron*
- `conf.neutron.agent.root_helper`
  - Type: string
  - Description:
  - *sudo /var/lib/openstack/bin/neutron-rootwrap /etc/neutron/rootwrap.conf*
- `conf.neutron.agent.root_helper_daemon`
  - Type: string
  - Description:
  - *sudo /var/lib/openstack/bin/neutron-rootwrap-daemon /etc/neutron/rootwrap.conf*
- `conf.neutron.database.max_retries`
  - Type: int
  - Description:
  - *-1*
- `conf.neutron.designate.allow_reverse_dns_lookup`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.designate.auth_type`
  - Type: string
  - Description:
  - *password*
- `conf.neutron.designate.auth_version`
  - Type: string
  - Description:
  - *v3*

- `conf.neutron.designate.endpoint_type`
  - Type: string
  - Description:
    - *internal*
- `conf.neutron.ironic.auth_type`
  - Type: string
  - Description:
    - *password*
- `conf.neutron.ironic.auth_version`
  - Type: string
  - Description:
    - *v3*
- `conf.neutron.ironic.endpoint_type`
  - Type: string
  - Description:
    - *internal*
- `conf.neutron.keystone_authtoken.auth_type`
  - Type: string
  - Description:
    - *password*
- `conf.neutron.keystone_authtoken.auth_version`
  - Type: string
  - Description:
    - *v3*
- `conf.neutron.keystone_authtoken.memcache_security_strategy`
  - Type: string
  - Description:
    - *ENCRYPT*
- `conf.neutron.keystone_authtoken.service_token_roles`
  - Type: string
  - Description:
    - *service*
- `conf.neutron.keystone_authtoken.service_token_roles_required`
  - Type: bool

- Description:
  - *true*
- `conf.neutron.keystone_authtoken.service_type`
  - Type: string
  - Description:
  - *network*
- `conf.neutron.nova.auth_type`
  - Type: string
  - Description:
  - *password*
- `conf.neutron.nova.auth_version`
  - Type: string
  - Description:
  - *v3*
- `conf.neutron.nova.endpoint_type`
  - Type: string
  - Description:
  - *internal*
- `conf.neutron.octavia.request_poll_timeout`
  - Type: int
  - Description:
  - *3000*
- `conf.neutron.oslo_concurrency.lock_path`
  - Type: string
  - Description:
  - */var/lib/neutron/tmp*
- `conf.neutron.oslo_messaging_notifications.driver`
  - Type: string
  - Description:
  - *messagingv2*
- `conf.neutron.oslo_messaging_rabbit.rabbit_ha_queues`
  - Type: bool
  - Description:
  - *true*

- `conf.neutron.oslo_middleware.enable_proxy_headers_parsing`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.oslo_policy.policy_file`
  - Type: string
  - Description:
  - */etc/neutron/policy.yaml*
- `conf.neutron.ovn.ovn_metadata_enabled`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron.placement.auth_type`
  - Type: string
  - Description:
  - *password*
- `conf.neutron.placement.auth_version`
  - Type: string
  - Description:
  - *v3*
- `conf.neutron.placement.endpoint_type`
  - Type: string
  - Description:
  - *internal*
- `conf.neutron_api_uwsgi.uwsgi.add-header`
  - Type: string
  - Description:
  - *Connection: close*
- `conf.neutron_api_uwsgi.uwsgi.buffer-size`
  - Type: int
  - Description:
  - *65535*
- `conf.neutron_api_uwsgi.uwsgi.die-on-term`
  - Type: bool

- Description:
  - *true*
- `conf.neutron_api_uwsgi.uwsgi.enable-threads`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron_api_uwsgi.uwsgi.exit-on-reload`
  - Type: bool
  - Description:
  - *false*
- `conf.neutron_api_uwsgi.uwsgi.hook-master-start`
  - Type: string
  - Description:
  - *unix\_signal:15 gracefully\_kill\_them\_all*
- `conf.neutron_api_uwsgi.uwsgi.lazy-apps`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron_api_uwsgi.uwsgi.log-x-forwarded-for`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron_api_uwsgi.uwsgi.master`
  - Type: bool
  - Description:
  - *true*
- `conf.neutron_api_uwsgi.uwsgi.procname-prefix-spaced`
  - Type: string
  - Description:
  - *neutron-api:*
- `conf.neutron_api_uwsgi.uwsgi.route-user-agent`
  - Type: string
  - Description:
  - *^kube-probe.\* donotlog:*

- `conf.neutron_api_uwsgi.uwsgi.thunder-lock`
  - Type: `bool`
  - Description:
    - `true`
- `conf.neutron_api_uwsgi.uwsgi.worker-reload-mercy`
  - Type: `int`
  - Description:
    - `80`
- `conf.neutron_api_uwsgi.uwsgi.wsgi-file`
  - Type: `string`
  - Description:
    - `/var/lib/openstack/bin/neutron-api`
- `conf.neutron_sudoers`
  - Type: `string`
  - Description:

```
This sudoers file supports rootwrap for both Kolla and LOCI Images.
Defaults !requiretty
Defaults secure_path=\"/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/
↪bin:/sbin:/bin:/snap/bin:/var/lib/openstack/bin:/var/lib/kolla/
↪venv/bin\"
neutron ALL = (root) NOPASSWD: /var/lib/kolla/venv/bin/neutron-
↪rootwrap /etc/neutron/rootwrap.conf *, /var/lib/openstack/bin/
↪neutron-rootwrap /etc/neutron/rootwrap.conf *
neutron ALL = (root) NOPASSWD: /var/lib/kolla/venv/bin/neutron-
↪rootwrap-daemon /etc/neutron/rootwrap.conf, /var/lib/openstack/bin/
↪neutron-rootwrap-daemon /etc/neutron/rootwrap.conf
```

- `conf.neutron_vpnaas`
  - Type: `string`
  - Description:
    - `nil`
- `conf.ovn_metadata_agent.DEFAULT.metadata_proxy_shared_secret`
  - Type: `string`
  - Description:
    - `password`
- `conf.ovn_metadata_agent.DEFAULT.metadata_proxy_socket`
  - Type: `string`
  - Description:



- */var/lib/neutron/openstack-helm/metadata\_proxy*
- `conf.ovn_metadata_agent.DEFAULT.metadata_workers`
  - Type: int
  - Description:
  - 2
- `conf.ovn_metadata_agent.cache.backend`
  - Type: string
  - Description:
  - *dogpile.cache.memcached*
- `conf.ovn_metadata_agent.cache.enabled`
  - Type: bool
  - Description:
  - *true*
- `conf.ovn_metadata_agent.ovs.ovsdb_connection`
  - Type: string
  - Description:
  - *unix:/run/openvswitch/db.sock*
- `conf.ovn_vpn_agent.DEFAULT.interface_driver`
  - Type: string
  - Description:
  - *openvswitch*
- `conf.ovn_vpn_agent.ovs.ovsdb_connection`
  - Type: string
  - Description:
  - *unix:/run/openvswitch/db.sock*
- `conf.ovn_vpn_agent.vpnagent.vpn_device_driver`
  - Type: string
  - Description:
  - *neutron\_vpnaas.services.vpn.device\_drivers.ovn\_ipsec.OvnStrongSwanDriver*
- `conf.ovs_dpdk.bridges[0].name`
  - Type: string
  - Description:
  - *br-phy*
- `conf.ovs_dpdk.driver`

- Type: string
  - Description:
    - *uio\_pci\_generic*
- `conf.ovs_dpdk.enabled`
  - Type: bool
  - Description:
    - *false*
- `conf.ovs_dpdk.nics[0].bridge`
  - Type: string
  - Description:
    - *br-phy*
- `conf.ovs_dpdk.nics[0].migrate_ip`
  - Type: bool
  - Description:
    - *true*
- `conf.ovs_dpdk.nics[0].n_rxq`
  - Type: int
  - Description:
    - *2*
- `conf.ovs_dpdk.nics[0].n_txq`
  - Type: int
  - Description:
    - *2*
- `conf.ovs_dpdk.nics[0].name`
  - Type: string
  - Description:
    - *dpdk0*
- `conf.ovs_dpdk.nics[0].ofport_request`
  - Type: int
  - Description:
    - *1*
- `conf.ovs_dpdk.nics[0].pci_id`
  - Type: string
  - Description:

- *0000:05:00.0*
- `conf.ovs_dpdk.nics[0].pmd_rxq_affinity`
  - Type: string
  - Description:
  - *0:3,1:27*
- `conf.ovs_dpdk.update_dpdk_bond_config`
  - Type: bool
  - Description:
  - *true*
- `conf.paste.app:neutronapiapp_v2_0.paste.app_factory`
  - Type: string
  - Description:
  - *neutron.api.v2.router:APIRouter.factory*
- `conf.paste.app:neutronversions.paste.app_factory`
  - Type: string
  - Description:
  - *neutron.pecan\_wsgi.app:versions\_factory*
- `conf.paste.composite:neutron./v2.0`
  - Type: string
  - Description:
  - *neutronapi\_v2\_0*
- `conf.paste.composite:neutron./`
  - Type: string
  - Description:
  - *neutronversions\_composite*
- `conf.paste.composite:neutron.use`
  - Type: string
  - Description:
  - *egg:Paste#urlmap*
- `conf.paste.composite:neutronapi_v2_0.keystone`
  - Type: string
  - Description:
  - *cors http\_proxy\_to\_wsgi request\_id catch\_errors authtoken audit keystonecontext extensions neutronapiapp\_v2\_0*
- `conf.paste.composite:neutronapi_v2_0.noauth`

- Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi request\_id catch\_errors extensions neutronapiapp\_v2\_0*
- conf.paste.composite:neutronapi\_v2\_0.use
  - Type: string
  - Description:
    - *call:neutron.auth:pipeline\_factory*
- conf.paste.composite:neutronversions\_composite.keystone
  - Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi neutronversions*
- conf.paste.composite:neutronversions\_composite.noauth
  - Type: string
  - Description:
    - *cors http\_proxy\_to\_wsgi neutronversions*
- conf.paste.composite:neutronversions\_composite.use
  - Type: string
  - Description:
    - *call:neutron.auth:pipeline\_factory*
- conf.paste.filter:audit.paste.filter\_factory
  - Type: string
  - Description:
    - *keystonemiddleware.audit:filter\_factory*
- conf.paste.filter:audit.audit\_map\_file
  - Type: string
  - Description:
    - */etc/neutron/api\_audit\_map.conf*
- conf.paste.filter:authtoken.paste.filter\_factory
  - Type: string
  - Description:
    - *keystonemiddleware.auth\_token:filter\_factory*
- conf.paste.filter:catch\_errors.paste.filter\_factory
  - Type: string
  - Description:

- *oslo\_middleware: CatchErrors.factory*
- `conf.paste.filter.cors.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware.cors:filter\_factory*
- `conf.paste.filter.cors.oslo_config_project`
  - Type: string
  - Description:
  - *neutron*
- `conf.paste.filter.extensions.paste.filter_factory`
  - Type: string
  - Description:
  - *neutron.api.extensions:plugin\_aware\_extension\_middleware\_factory*
- `conf.paste.filter.http_proxy_to_wsgi.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware.http\_proxy\_to\_wsgi:HTTPProxyToWSGI.factory*
- `conf.paste.filter.keystonecontext.paste.filter_factory`
  - Type: string
  - Description:
  - *neutron.auth:NeutronKeystoneContext.factory*
- `conf.paste.filter.osprofiler.paste.filter_factory`
  - Type: string
  - Description:
  - *osprofiler.web:WsgiMiddleware.factory*
- `conf.paste.filter.request_id.paste.filter_factory`
  - Type: string
  - Description:
  - *oslo\_middleware:RequestId.factory*
- `conf.plugins.linuxbridge_agent.linux_bridge.bridge_mappings`
  - Type: string
  - Description:
  - *external:br-ex*
- `conf.plugins.linuxbridge_agent.securitygroup.firewall_driver`

- Type: string
  - Description:
  - *iptables*
- conf.plugins.linuxbridge\_agent.vxlan.arp\_responder
  - Type: bool
  - Description:
  - *true*
- conf.plugins.linuxbridge\_agent.vxlan.l2\_population
  - Type: bool
  - Description:
  - *true*
- conf.plugins.macvtap\_agent
  - Type: string
  - Description:
  - *nil*
- conf.plugins.ml2\_conf.agent.extensions
  - Type: string
  - Description:
  -
- conf.plugins.ml2\_conf.ml2.extension\_drivers
  - Type: string
  - Description:
  - *port\_security*
- conf.plugins.ml2\_conf.ml2.mechanism\_drivers
  - Type: string
  - Description:
  - *nil*
- conf.plugins.ml2\_conf.ml2.tenant\_network\_types
  - Type: string
  - Description:
  - *vxlan*
- conf.plugins.ml2\_conf.ml2.type\_drivers
  - Type: string
  - Description:

- *flat,vlan,vxlan,local*
- `conf.plugins.ml2_conf.ml2_type_flat.flat_networks`
  - Type: string
  - Description:
  - \*
- `conf.plugins.ml2_conf.ml2_type_geneve.max_header_size`
  - Type: int
  - Description:
  - 38
- `conf.plugins.ml2_conf.ml2_type_geneve.vni_ranges`
  - Type: string
  - Description:
  - *1:65536*
- `conf.plugins.ml2_conf.ml2_type_vxlan.vni_ranges`
  - Type: string
  - Description:
  - *1:1000*
- `conf.plugins.ml2_conf.ml2_type_vxlan.vxlan_group`
  - Type: string
  - Description:
  - *239.1.1.1*
- `conf.plugins.ml2_conf_sriov`
  - Type: string
  - Description:
  - *nil*
- `conf.plugins.openvswitch_agent.agent.arp_responder`
  - Type: bool
  - Description:
  - *true*
- `conf.plugins.openvswitch_agent.agent.l2_population`
  - Type: bool
  - Description:
  - *true*
- `conf.plugins.openvswitch_agent.agent.tunnel_types`

- Type: string
- Description:
- *vxlan*
- `conf.plugins.openvswitch_agent.ovs.bridge_mappings`
  - Type: string
  - Description:
  - *external:br-ex*
- `conf.plugins.openvswitch_agent.securitygroup.firewall_driver`
  - Type: string
  - Description:
  - *neutron.agent.linux.iptables\_firewall.OVSHybridIptablesFirewallDriver*
- `conf.plugins.sriov_agent.securitygroup.firewall_driver`
  - Type: string
  - Description:
  - *neutron.agent.firewall.NoopFirewallDriver*
- `conf.plugins.sriov_agent.sriov_nic.exclude_devices`
  - Type: string
  - Description:
  -
- `conf.plugins.sriov_agent.sriov_nic.physical_device_mappings`
  - Type: string
  - Description:
  - *physnet2:enp3s0f1*
- `conf.plugins.taas.taas.enabled`
  - Type: bool
  - Description:
  - *false*
- `conf.policy`
  - Type: object
  - Description:
  - *{}*
- `conf.rabbitmq.policies[0].apply-to`
  - Type: string
  - Description:



- *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`
  - Type: string
  - Description:
  - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
  - Type: string
  - Description:
  - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
  - Type: int
  - Description:
  - *70000*
- `conf.rabbitmq.policies[0].name`
  - Type: string
  - Description:
  - *ha\_ttl\_neutron*
- `conf.rabbitmq.policies[0].pattern`
  - Type: string
  - Description:
  - *^(?!(amq\|reply\_)).\**
- `conf.rabbitmq.policies[0].priority`
  - Type: int
  - Description:
  - *0*
- `conf.rabbitmq.policies[0].vhost`
  - Type: string
  - Description:
  - *neutron*
- `conf.rally_tests.clean_up`
  - Type: string
  - Description:

```

- # NOTE: We will make the best effort to clean up rally generated
 ↪ networks and routers,
 # but should not block further automated deployment.
 set +e
 PATTERN="\^[sc]_rally_\\"

 ROUTERS=$(openstack router list --format=value -c Name | grep -e
 ↪ $PATTERN | sort | tr -d '\\r')
 NETWORKS=$(openstack network list --format=value -c Name | grep -e
 ↪ $PATTERN | sort | tr -d '\\r')

 for ROUTER in $ROUTERS
 do
 openstack router unset --external-gateway $ROUTER
 openstack router set --disable --no-ha $ROUTER

 SUBNS=$(openstack router show $ROUTER -c interfaces_info --
 ↪ format=value | python -m json.tool | grep -oP '(?<="subnet_id": \
 ↪ ")[a-f0-9\\-]{36}(?=")' | sort | uniq)
 for SUBN in $SUBNS
 do
 openstack router remove subnet $ROUTER $SUBN
 done

 for PORT in $(openstack port list --router $ROUTER --format=value -
 ↪ c ID | tr -d '\\r')
 do
 openstack router remove port $ROUTER $PORT
 done

 openstack router delete $ROUTER
 done

 for NETWORK in $NETWORKS
 do
 for PORT in $(openstack port list --network $NETWORK --
 ↪ format=value -c ID | tr -d '\\r')
 do
 openstack port delete $PORT
 done
 openstack network delete $NETWORK
 done
 set -e

```

- `conf.rally_tests.force_project_purge`
  - Type: bool
  - Description:
  - *false*
- `conf.rally_tests.run_tempest`

- Type: bool
- Description:
- *false*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_networks[0].args.network_create_args`
  - Type: object
  - Description:
  - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_networks[0].context.quotas.neutron.network`
  - Type: int
  - Description:
  - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_networks[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_networks[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_networks[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_networks[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_ports[0].args.network_create_args`
  - Type: object
  - Description:
  - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_delete_ports[0].args.port_create_args`
  - Type: object
  - Description:

- {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].args.ports\_per\_network
  - Type: int
  - Description:
  - 10
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].context.network
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].context.quotas.neutron.network
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].context.quotas.neutron.port
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].runner.concurrency
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].runner.times
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_ports[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - 0
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].args.network\_create\_args

- Type: object
- Description:
- {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].args.router\_create\_args
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].args.subnet\_cidr\_start
  - Type: string
  - Description:
  - 1.1.0.0/30
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].args.subnet\_create\_args
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].args.subnets\_per\_network
  - Type: int
  - Description:
  - 2
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].context.network
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].context.quotas.neutron.network
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].context.quotas.neutron.router
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].context.quotas.neutron.subnet
  - Type: int
  - Description:

- *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_routers[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].args.network\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].args.subnet\_cidr\_start
  - Type: string
  - Description:
  - *1.1.0.0/30*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].args.subnet\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].args.subnets\_per\_network
  - Type: int
  - Description:
  - *2*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].context.network

- Type: object
- Description:
- {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].context.quotas.neutron.network
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].context.quotas.neutron.subnet
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].runner.concurrency
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].runner.times
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_delete\_subnets[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - 0
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].args.network\_create\_args
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].args.router\_create\_args
  - Type: object
  - Description:

- {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].args.subnet\_cidr\_start
  - Type: string
  - Description:
  - *1.1.0.0/30*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].args.subnet\_create\_args
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].args.subnets\_per\_network
  - Type: int
  - Description:
  - *2*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].context.network
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].context.quotas.neutron.network
  - Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].context.quotas.neutron.router
  - Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].context.quotas.neutron.subnet
  - Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].runner.times



- Type: int
- Description:
- *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_routers[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_subnets[0].args.network\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_subnets[0].args.subnet\_cidr\_start
  - Type: string
  - Description:
  - *1.1.0.0/30*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_subnets[0].args.subnet\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_subnets[0].args.subnets\_per\_network
  - Type: int
  - Description:
  - *2*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_subnets[0].context.network
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_list\_subnets[0].context.quotas.neutron.network
  - Type: int
  - Description:

- *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_list_subnets[0].context.quotas.neutron.subnet`
  - Type: int
  - Description:
    - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_list_subnets[0].runner.concurrency`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_list_subnets[0].runner.times`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_list_subnets[0].runner.type`
  - Type: string
  - Description:
    - *constant*
- `conf.rally_tests.tests.NeutronNetworks.create_and_list_subnets[0].sla.failure_rate.max`
  - Type: int
  - Description:
    - *0*
- `conf.rally_tests.tests.NeutronNetworks.create_and_show_network[0].args.network_create_args`
  - Type: object
  - Description:
    - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_show_network[0].context.quotas.neutron.network`
  - Type: int
  - Description:
    - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_show_network[0].runner.concurrency`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_show_network[0].runner.times`

- Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_show\_network[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_show\_network[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_networks[0].args.network\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_networks[0].args.network\_update\_args.admin\_state\_up
  - Type: bool
  - Description:
  - *false*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_networks[0].context.quotas.neutron.network
  - Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_networks[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_networks[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_networks[0].runner.type
  - Type: string
  - Description:

- *constant*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_networks[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].args.network_create_args`
  - Type: object
  - Description:
  - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].args.port_create_args`
  - Type: object
  - Description:
  - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].args.port_update_args.admin_state_up`
  - Type: bool
  - Description:
  - *false*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].args.port_update_args.device_id`
  - Type: string
  - Description:
  - *dummy\_id*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].args.port_update_args.device_owner`
  - Type: string
  - Description:
  - *dummy\_owner*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].args.ports_per_network`
  - Type: int
  - Description:
  - *5*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].context.network`
  - Type: object
  - Description:
  - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_ports[0].context.quotas.neutron.network`

- Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_ports[0].context.quotas.neutron.port
  - Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_ports[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_ports[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_ports[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_ports[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_routers[0].args.network\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_routers[0].args.router\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_routers[0].args.router\_update\_args.admin\_state\_up
  - Type: bool
  - Description:

- *false*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].args.subnet_cidr_start`
  - Type: string
  - Description:
    - *1.1.0.0/30*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].args.subnet_create_args`
  - Type: object
  - Description:
    - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].args.subnets_per_network`
  - Type: int
  - Description:
    - *2*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].context.network`
  - Type: object
  - Description:
    - *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].context.quotas.neutron.network`
  - Type: int
  - Description:
    - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].context.quotas.neutron.router`
  - Type: int
  - Description:
    - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].context.quotas.neutron.subnet`
  - Type: int
  - Description:
    - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].runner.concurrency`
  - Type: int
  - Description:
    - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_routers[0].runner.times`

- Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_routers[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_routers[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_subnets[0].args.network\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_subnets[0].args.subnet\_cidr\_start
  - Type: string
  - Description:
  - *1.4.0.0/16*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_subnets[0].args.subnet\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_subnets[0].args.subnet\_update\_args.enable\_dhcp
  - Type: bool
  - Description:
  - *false*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_subnets[0].args.subnets\_per\_network
  - Type: int
  - Description:
  - *2*
- conf.rally\_tests.tests.NeutronNetworks.create\_and\_update\_subnets[0].context.network
  - Type: object
  - Description:

- *{}*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_subnets[0].context.quotas.neutron.network`
  - Type: int
  - Description:
  - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_subnets[0].context.quotas.neutron.subnet`
  - Type: int
  - Description:
  - *-1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_subnets[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_subnets[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_subnets[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.NeutronNetworks.create_and_update_subnets[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.NeutronNetworks.list_agents[0].args.agent_args`
  - Type: object
  - Description:
  - *{}*
- `conf.rally_tests.tests.NeutronNetworks.list_agents[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NeutronNetworks.list_agents[0].runner.times`



- Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronNetworks.list\_agents[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronNetworks.list\_agents[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_list\_security\_groups[0].args.security\_group\_create\_args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_list\_security\_groups[0].context.quotas.neutron.security\_g
  - Type: int
  - Description:
  - *-1*
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_list\_security\_groups[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_list\_security\_groups[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_list\_security\_groups[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_list\_security\_groups[0].sla.failure\_rate.max
  - Type: int
  - Description:

- 0
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].args.security\_group\_create\_a
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].args.security\_group\_update\_a
  - Type: object
  - Description:
  - {}
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].context.quotas.neutron.securit
  - Type: int
  - Description:
  - -1
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].runner.concurrency
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].runner.times
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].runner.type
  - Type: string
  - Description:
  - constant
- conf.rally\_tests.tests.NeutronSecurityGroup.create\_and\_update\_security\_groups[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - 0
- conf.rootwrap
  - Type: string
  - Description:

```

- # Configuration for neutron-rootwrap
This file should be owned by (and only-writeable by) the root user

[DEFAULT]
List of directories to load filter definitions from (separated by ',
↪').
These directories MUST all be only writeable by root !
filters_path=/etc/neutron/rootwrap.d,/usr/share/neutron/rootwrap,/
↪var/lib/openstack/etc/neutron/rootwrap.d

List of directories to search executables in, in case filters do
↪not
explicitly specify a full path (separated by ',')
If not specified, defaults to system PATH environment variable.
These directories MUST all be only writeable by root !
exec_dirs=/sbin,/usr/sbin,/bin,/usr/bin,/usr/local/bin,/usr/local/
↪sbin,/var/lib/openstack/bin,/var/lib/kolla/venv/bin

Enable logging to syslog
Default value is False
use_syslog=False

Which syslog facility to use.
Valid values include auth, authpriv, syslog, local0, local1...
Default value is 'syslog'
syslog_log_facility=syslog

Which messages to log.
INFO means log all usage
ERROR means only log unsuccessful attempts
syslog_log_level=ERROR

```

- `conf.rootwrap_filters.debug.content`

- Type: string

- Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
expected to control network
#
This file should be owned by (and only-writeable by) the root user

format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]

This is needed because we should ping
from inside a namespace which requires root
_alt variants allow to match -c and -w in any order

```

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```
(used by NeutronDebugAgent.ping_all)
ping: RegExpFilter, ping, root, ping, -w, \\d+, -c, \\d+, [0-9\\.]+
ping_alt: RegExpFilter, ping, root, ping, -c, \\d+, -w, \\d+, [0-9\\.
↪]+
ping6: RegExpFilter, ping6, root, ping6, -w, \\d+, -c, \\d+, [0-9A-
↪Fa-f:]+
ping6_alt: RegExpFilter, ping6, root, ping6, -c, \\d+, -w, \\d+, [0-
↪9A-Fa-f:]+
```

- `conf.rootwrap_filters.debug.pods[0]`
  - Type: string
  - Description:
    - *dhcp\_agent*
- `conf.rootwrap_filters.debug.pods[1]`
  - Type: string
  - Description:
    - *l3\_agent*
- `conf.rootwrap_filters.debug.pods[2]`
  - Type: string
  - Description:
    - *lb\_agent*
- `conf.rootwrap_filters.debug.pods[3]`
  - Type: string
  - Description:
    - *metadata\_agent*
- `conf.rootwrap_filters.debug.pods[4]`
  - Type: string
  - Description:
    - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.debug.pods[5]`
  - Type: string
  - Description:
    - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.debug.pods[6]`
  - Type: string
  - Description:
    - *ovs\_agent*

- `conf.rootwrap_filters.debug.pods[7]`

- Type: string
- Description:
- *sriov\_agent*

- `conf.rootwrap_filters.dhcp.content`

- Type: string
- Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
expected to control network
#
This file should be owned by (and only-writeable by) the root user

format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]

dhcp-agent
dnsmasq: CommandFilter, dnsmasq, root
dhcp-agent uses kill as well, that's handled by the generic
↪KillFilter
it looks like these are the only signals needed, per
neutron/agent/linux/dhcp.py
kill_dnsmasq: KillFilter, root, /sbin/dnsmasq, -9, -HUP, -15
kill_dnsmasq_usr: KillFilter, root, /usr/sbin/dnsmasq, -9, -HUP, -15

ovs-vsctl: CommandFilter, ovs-vsctl, root
ivs-ctl: CommandFilter, ivs-ctl, root
mm-ctl: CommandFilter, mm-ctl, root
dhcp_release: CommandFilter, dhcp_release, root
dhcp_release6: CommandFilter, dhcp_release6, root

metadata proxy
metadata_proxy: CommandFilter, neutron-ns-metadata-proxy, root
RHEL invocation of the metadata proxy will report /usr/bin/python
kill_metadata: KillFilter, root, python, -9
kill_metadata2: KillFilter, root, python2, -9
kill_metadata7: KillFilter, root, python2.7, -9
kill_metadata3: KillFilter, root, python3, -9
kill_metadata35: KillFilter, root, python3.5, -9
kill_metadata36: KillFilter, root, python3.6, -9
kill_metadata37: KillFilter, root, python3.7, -9

ip_lib
ip: IpFilter, ip, root
find: RegExpFilter, find, root, find, /sys/class/net, -maxdepth, 1, -
↪type, 1, -printf, %.*

```

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```
ip_exec: IpNetnsExecFilter, ip, root
```

- `conf.rootwrap_filters.dhcp.pods[0]`
  - Type: string
  - Description:
  - *dhcp\_agent*
- `conf.rootwrap_filters.dhcp.pods[1]`
  - Type: string
  - Description:
  - *l3\_agent*
- `conf.rootwrap_filters.dhcp.pods[2]`
  - Type: string
  - Description:
  - *lb\_agent*
- `conf.rootwrap_filters.dhcp.pods[3]`
  - Type: string
  - Description:
  - *metadata\_agent*
- `conf.rootwrap_filters.dhcp.pods[4]`
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.dhcp.pods[5]`
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.dhcp.pods[6]`
  - Type: string
  - Description:
  - *ovs\_agent*
- `conf.rootwrap_filters.dhcp.pods[7]`
  - Type: string
  - Description:
  - *sriov\_agent*

- `conf.rootwrap_filters.dhcp.pods[8]`
  - Type: string
  - Description:
    - *netns\_cleanup\_cron*
- `conf.rootwrap_filters.dibbler.content`
  - Type: string
  - Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
expected to control network
#
This file should be owned by (and only-writeable by) the root user

format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]

Filters for the dibbler-based reference implementation of the
↪pluggable
Prefix Delegation driver. Other implementations using an
↪alternative agent
should include a similar filter in this folder.

prefix_delegation_agent
dibbler-client: CommandFilter, dibbler-client, root

```

- `conf.rootwrap_filters.dibbler.pods[0]`
  - Type: string
  - Description:
    - *dhcp\_agent*
- `conf.rootwrap_filters.dibbler.pods[1]`
  - Type: string
  - Description:
    - *l3\_agent*
- `conf.rootwrap_filters.dibbler.pods[2]`
  - Type: string
  - Description:
    - *lb\_agent*
- `conf.rootwrap_filters.dibbler.pods[3]`
  - Type: string

- Description:
- *metadata\_agent*
- conf.rootwrap\_filters.dibbler.pods[4]
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- conf.rootwrap\_filters.dibbler.pods[5]
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- conf.rootwrap\_filters.dibbler.pods[6]
  - Type: string
  - Description:
  - *ovs\_agent*
- conf.rootwrap\_filters.dibbler.pods[7]
  - Type: string
  - Description:
  - *sriov\_agent*
- conf.rootwrap\_filters.ebtables.content
  - Type: string
  - Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
 # expected to control network
 #
 # This file should be owned by (and only-writeable by) the root user

 # format seems to be
 # cmd-name: filter-name, raw-command, user, args

 [Filters]

 ebtables: CommandFilter, ebtables, root

```

- conf.rootwrap\_filters.ebtables.pods[0]
  - Type: string
  - Description:
  - *dhcp\_agent*
- conf.rootwrap\_filters.ebtables.pods[1]



- Type: string
- Description:
- *l3\_agent*
- conf.rootwrap\_filters.ebtables.pods[2]
  - Type: string
  - Description:
  - *lb\_agent*
- conf.rootwrap\_filters.ebtables.pods[3]
  - Type: string
  - Description:
  - *metadata\_agent*
- conf.rootwrap\_filters.ebtables.pods[4]
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- conf.rootwrap\_filters.ebtables.pods[5]
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- conf.rootwrap\_filters.ebtables.pods[6]
  - Type: string
  - Description:
  - *ovs\_agent*
- conf.rootwrap\_filters.ebtables.pods[7]
  - Type: string
  - Description:
  - *sriov\_agent*
- conf.rootwrap\_filters.ipset\_firewall.content
  - Type: string
  - Description:

```

– # neutron-rootwrap command filters for nodes on which neutron is
 # expected to control network
 #
 # This file should be owned by (and only-writable by) the root user

```

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```
format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]
neutron/agent/linux/iptables_firewall.py
\ "ipset\ ", \ "-A\ ", ...
ipset: CommandFilter, ipset, root
```

- `conf.rootwrap_filters.ipset_firewall.pods[0]`
  - Type: string
  - Description:
  - *dhcp\_agent*
- `conf.rootwrap_filters.ipset_firewall.pods[1]`
  - Type: string
  - Description:
  - *l3\_agent*
- `conf.rootwrap_filters.ipset_firewall.pods[2]`
  - Type: string
  - Description:
  - *lb\_agent*
- `conf.rootwrap_filters.ipset_firewall.pods[3]`
  - Type: string
  - Description:
  - *metadata\_agent*
- `conf.rootwrap_filters.ipset_firewall.pods[4]`
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.ipset_firewall.pods[5]`
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.ipset_firewall.pods[6]`
  - Type: string
  - Description:
  - *ovs\_agent*

- `conf.rootwrap_filters.ipset_firewall.pods[7]`
  - Type: string
  - Description:
  - *sriov\_agent*
- `conf.rootwrap_filters.iptables_firewall.content`
  - Type: string
  - Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
expected to control network
#
This file should be owned by (and only-writeable by) the root user

format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]

neutron/agent/linux/iptables_firewall.py
\iptables-save\, ...
iptables-save: CommandFilter, iptables-save, root
iptables-restore: CommandFilter, iptables-restore, root
ip6tables-save: CommandFilter, ip6tables-save, root
ip6tables-restore: CommandFilter, ip6tables-restore, root

neutron/agent/linux/iptables_firewall.py
\iptables\, \-A\, ...
iptables: CommandFilter, iptables, root
ip6tables: CommandFilter, ip6tables, root

neutron/agent/linux/iptables_firewall.py
sysctl: CommandFilter, sysctl, root

neutron/agent/linux/ip_conntrack.py
conntrack: CommandFilter, conntrack, root

```

- `conf.rootwrap_filters.iptables_firewall.pods[0]`
  - Type: string
  - Description:
  - *dhcp\_agent*
- `conf.rootwrap_filters.iptables_firewall.pods[1]`
  - Type: string
  - Description:
  - *l3\_agent*

- `conf.rootwrap_filters.iptables_firewall.pods[2]`
  - Type: string
  - Description:
  - *lb\_agent*
- `conf.rootwrap_filters.iptables_firewall.pods[3]`
  - Type: string
  - Description:
  - *metadata\_agent*
- `conf.rootwrap_filters.iptables_firewall.pods[4]`
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.iptables_firewall.pods[5]`
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.iptables_firewall.pods[6]`
  - Type: string
  - Description:
  - *ovs\_agent*
- `conf.rootwrap_filters.iptables_firewall.pods[7]`
  - Type: string
  - Description:
  - *sriov\_agent*
- `conf.rootwrap_filters.l3.content`
  - Type: string
  - Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
 # expected to control network
 #
 # This file should be owned by (and only-writeable by) the root user

 # format seems to be
 # cmd-name: filter-name, raw-command, user, args

 [Filters]

```

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```

arping
arping: CommandFilter, arping, root

l3_agent
sysctl: CommandFilter, sysctl, root
route: CommandFilter, route, root
radvd: CommandFilter, radvd, root

haproxy
haproxy: RegExpFilter, haproxy, root, haproxy, -f, .*
kill_haproxy: KillFilter, root, haproxy, -15, -9, -HUP

metadata proxy
metadata_proxy: CommandFilter, neutron-ns-metadata-proxy, root
RHEL invocation of the metadata proxy will report /usr/bin/python
kill_metadata: KillFilter, root, python, -15, -9
kill_metadata2: KillFilter, root, python2, -15, -9
kill_metadata7: KillFilter, root, python2.7, -15, -9
kill_metadata3: KillFilter, root, python3, -15, -9
kill_metadata35: KillFilter, root, python3.5, -15, -9
kill_metadata36: KillFilter, root, python3.6, -15, -9
kill_metadata37: KillFilter, root, python3.7, -15, -9
kill_radvd_usr: KillFilter, root, /usr/sbin/radvd, -15, -9, -HUP
kill_radvd: KillFilter, root, /sbin/radvd, -15, -9, -HUP

ip_lib
ip: IpFilter, ip, root
find: RegExpFilter, find, root, find, /sys/class/net, -maxdepth, 1, -
↳type, 1, -printf, %.*
ip_exec: IpNetnsExecFilter, ip, root

l3_tc_lib
l3_tc_show_qdisc: RegExpFilter, tc, root, tc, qdisc, show, dev, .+
l3_tc_add_qdisc_ingress: RegExpFilter, tc, root, tc, qdisc, add, dev,
↳ .+, ingress
l3_tc_add_qdisc_egress: RegExpFilter, tc, root, tc, qdisc, add, dev,
↳ .+, root, handle, 1:, htb
l3_tc_show_filters: RegExpFilter, tc, root, tc, -p, -s, -d, filter,
↳ show, dev, .+, parent, .+, prio, 1
l3_tc_delete_filters: RegExpFilter, tc, root, tc, filter, del, dev, .
↳ +, parent, .+, prio, 1, handle, .+, u32
l3_tc_add_filter_ingress: RegExpFilter, tc, root, tc, filter, add,
↳ dev, .+, parent, .+, protocol, ip, prio, 1, u32, match, ip, dst, .
↳ +, police, rate, .+, burst, .+, drop, flowid, :1
l3_tc_add_filter_egress: RegExpFilter, tc, root, tc, filter, add,
↳ dev, .+, parent, .+, protocol, ip, prio, 1, u32, match, ip, src, .
↳ +, police, rate, .+, burst, .+, drop, flowid, :1

For ip monitor

```

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```

kill_ip_monitor: KillFilter, root, ip, -9

ovs_lib (if OVSIInterfaceDriver is used)
ovs-vsctl: CommandFilter, ovs-vsctl, root

iptables_manager
iptables-save: CommandFilter, iptables-save, root
iptables-restore: CommandFilter, iptables-restore, root
ip6tables-save: CommandFilter, ip6tables-save, root
ip6tables-restore: CommandFilter, ip6tables-restore, root

Keepalived
keepalived: CommandFilter, keepalived, root
kill_keepalived: KillFilter, root, keepalived, -HUP, -15, -9

l3 agent to delete floatingip's conntrack state
conntrack: CommandFilter, conntrack, root

keepalived state change monitor
keepalived_state_change: CommandFilter, neutron-keepalived-state-
↪change, root
The following filters are used to kill the keepalived state change_
↪monitor.
Since the monitor runs as a Python script, the system reports that_
↪the
command of the process to be killed is python.
TODO(mlavalle) These kill filters will be updated once we come up_
↪with a
mechanism to kill using the name of the script being executed by_
↪Python
kill_keepalived_monitor_py: KillFilter, root, python, -15
kill_keepalived_monitor_py27: KillFilter, root, python2.7, -15
kill_keepalived_monitor_py3: KillFilter, root, python3, -15
kill_keepalived_monitor_py35: KillFilter, root, python3.5, -15
kill_keepalived_monitor_py36: KillFilter, root, python3.6, -15
kill_keepalived_monitor_py37: KillFilter, root, python3.7, -15

```

- `conf.rootwrap_filters.l3.pods[0]`
  - Type: string
  - Description:
  - *dhcp\_agent*
- `conf.rootwrap_filters.l3.pods[1]`
  - Type: string
  - Description:
  - *l3\_agent*
- `conf.rootwrap_filters.l3.pods[2]`

- Type: string
- Description:
- *lb\_agent*
- `conf.rootwrap_filters.l3.pods[3]`
  - Type: string
  - Description:
  - *metadata\_agent*
- `conf.rootwrap_filters.l3.pods[4]`
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.l3.pods[5]`
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.l3.pods[6]`
  - Type: string
  - Description:
  - *ovs\_agent*
- `conf.rootwrap_filters.l3.pods[7]`
  - Type: string
  - Description:
  - *sriov\_agent*
- `conf.rootwrap_filters.linux_vxlan.content`
  - Type: string
  - Description:

```

- # bagpipe-bgp-rootwrap command filters for nodes on which bagpipe-
 ↪bgp is
 # expected to control VXLAN Linux Bridge dataplane
 #
 # This file should be owned by (and only-writeable by) the root user

 # format seems to be
 # cmd-name: filter-name, raw-command, user, args

 [Filters]

```

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```

#
modprobe: CommandFilter, modprobe, root

#
brctl: CommandFilter, brctl, root
bridge: CommandFilter, bridge, root

ip_lib
ip: IpFilter, ip, root
ip_exec: IpNetnsExecFilter, ip, root

shell (for piped commands)
sh: CommandFilter, sh, root

```

- `conf.rootwrap_filters.linux_vxlan.pods[0]`
  - Type: string
  - Description:
  - *bagpipe\_bgp*
- `conf.rootwrap_filters.linuxbridge_plugin.content`
  - Type: string
  - Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
 # expected to control network
 #
 # This file should be owned by (and only-writeable by) the root user

 # format seems to be
 # cmd-name: filter-name, raw-command, user, args

 [Filters]

 # linuxbridge-agent
 # unclear whether both variants are necessary, but I'm transliterating
 # from the old mechanism
 brctl: CommandFilter, brctl, root
 bridge: CommandFilter, bridge, root

 # ip_lib
 ip: IpFilter, ip, root
 find: RegExpFilter, find, root, find, /sys/class/net, -maxdepth, 1, -
↳ type, 1, -printf, %.*
 ip_exec: IpNetnsExecFilter, ip, root

 # tc commands needed for QoS support
 tc_replace_tbf: RegExpFilter, tc, root, tc, qdisc, replace, dev, .+,
↳
↳ root, tbf, rate, .+, latency, .+, burst, .+

```

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```
tc_add_ingress: RegExpFilter, tc, root, tc, qdisc, add, dev, .+,
↳ ingress, handle, .+
tc_delete: RegExpFilter, tc, root, tc, qdisc, del, dev, .+, .+
tc_show_qdisc: RegExpFilter, tc, root, tc, qdisc, show, dev, .+
tc_show_filters: RegExpFilter, tc, root, tc, filter, show, dev, .+,
↳ parent, .+
tc_add_filter: RegExpFilter, tc, root, tc, filter, add, dev, .+,
↳ parent, .+, protocol, all, prio, .+, basic, police, rate, .+,
↳ burst, .+, mtu, .+, drop
```

- conf.rootwrap\_filters.linuxbridge\_plugin.pods[0]
  - Type: string
  - Description:
  - *dhcp\_agent*
- conf.rootwrap\_filters.linuxbridge\_plugin.pods[1]
  - Type: string
  - Description:
  - *l3\_agent*
- conf.rootwrap\_filters.linuxbridge\_plugin.pods[2]
  - Type: string
  - Description:
  - *lb\_agent*
- conf.rootwrap\_filters.linuxbridge\_plugin.pods[3]
  - Type: string
  - Description:
  - *metadata\_agent*
- conf.rootwrap\_filters.linuxbridge\_plugin.pods[4]
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- conf.rootwrap\_filters.linuxbridge\_plugin.pods[5]
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- conf.rootwrap\_filters.linuxbridge\_plugin.pods[6]
  - Type: string
  - Description:

- *ovs\_agent*
- `conf.rootwrap_filters.linuxbridge_plugin.pods[7]`
  - Type: string
  - Description:
  - *sriov\_agent*
- `conf.rootwrap_filters.mpls_ovs_dataplane.content`
  - Type: string
  - Description:

```

- # bagpipe-bgp-rootwrap command filters for nodes on which bagpipe-
 ↪bgp is
 # expected to control MPLS OpenVSwitch dataplane
 #
 # This file should be owned by (and only-writeable by) the root user

 # format seems to be
 # cmd-name: filter-name, raw-command, user, args

 [Filters]

 # openvswitch
 ovs-vsctl: CommandFilter, ovs-vsctl, root
 ovs-ofctl: CommandFilter, ovs-ofctl, root

 # ip_lib
 ip: IpFilter, ip, root
 ip_exec: IpNetnsExecFilter, ip, root

 # shell (for piped commands)
 sh: CommandFilter, sh, root

```

- `conf.rootwrap_filters.mpls_ovs_dataplane.pods[0]`
  - Type: string
  - Description:
  - *bagpipe\_bgp*
- `conf.rootwrap_filters.netns_cleanup.content`
  - Type: string
  - Description:

```

- # neutron-rootwrap command filters for nodes on which neutron is
 # expected to control network
 #
 # This file should be owned by (and only-writeable by) the root user

```

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```
format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]

netns-cleanup
netstat: CommandFilter, netstat, root
```

- `conf.rootwrap_filters.netns_cleanup.pods[0]`
  - Type: string
  - Description:
  - *dhcp\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[1]`
  - Type: string
  - Description:
  - *l3\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[2]`
  - Type: string
  - Description:
  - *lb\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[3]`
  - Type: string
  - Description:
  - *metadata\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[4]`
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[5]`
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[6]`
  - Type: string
  - Description:
  - *ovs\_agent*

- `conf.rootwrap_filters.netns_cleanup.pods[7]`
  - Type: string
  - Description:
    - *sriov\_agent*
- `conf.rootwrap_filters.netns_cleanup.pods[8]`
  - Type: string
  - Description:
    - *netns\_cleanup\_cron*
- `conf.rootwrap_filters.openvswitch_plugin.content`
  - Type: string
  - Description:

```
- # neutron-rootwrap command filters for nodes on which neutron is
expected to control network
#
This file should be owned by (and only-writeable by) the root user

format seems to be
cmd-name: filter-name, raw-command, user, args

[Filters]

openvswitch-agent
unclear whether both variants are necessary, but I'm transliterating
from the old mechanism
ovs-vsctl: CommandFilter, ovs-vsctl, root
NOTE(yamamoto): of_interface=native doesn't use ovs-ofctl
ovs-ofctl: CommandFilter, ovs-ofctl, root
ovs-appctl: CommandFilter, ovs-appctl, root
kill_ovsdb_client: KillFilter, root, /usr/bin/ovsdb-client, -9
ovsdb-client: CommandFilter, ovsdb-client, root
xe: CommandFilter, xe, root

ip_lib
ip: IpFilter, ip, root
find: RegExpFilter, find, root, find, /sys/class/net, -maxdepth, 1, -
↪type, 1, -printf, %.*
ip_exec: IpNetnsExecFilter, ip, root

needed for FDB extension
bridge: CommandFilter, bridge, root
```

- `conf.rootwrap_filters.openvswitch_plugin.pods[0]`
  - Type: string
  - Description:

- *dhcp\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[1]
  - Type: string
  - Description:
  - *l3\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[2]
  - Type: string
  - Description:
  - *lb\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[3]
  - Type: string
  - Description:
  - *metadata\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[4]
  - Type: string
  - Description:
  - *ovn\_metadata\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[5]
  - Type: string
  - Description:
  - *ovn\_vpn\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[6]
  - Type: string
  - Description:
  - *ovs\_agent*
- conf.rootwrap\_filters.openvswitch\_plugin.pods[7]
  - Type: string
  - Description:
  - *sriov\_agent*
- conf.rootwrap\_filters.privsep.content
  - Type: string
  - Description:

```
- # Command filters to allow privsep daemon to be started via rootwrap.
#
This file should be owned by (and only-writeable by) the root user

[Filters]

By installing the following, the local admin is asserting that:
#
1. The python module load path used by privsep-helper
command as root (as started by sudo/rootwrap) is trusted.
2. Any oslo.config files matching the --config-file
arguments below are trusted.
3. Users allowed to run sudo/rootwrap with this configuration(*)
↪are
also allowed to invoke python \"entrypoint\" functions from
--privsep_context with the additional (possibly root) privileges
configured for that context.
#
(*) ie: the user is allowed by /etc/sudoers to run rootwrap as root
#
In particular, the oslo.config and python module path must not
be writeable by the unprivileged user.

oslo.privsep default neutron context
privsep: PathFilter, privsep-helper, root,
 --config-file, /etc,
 --privsep_context, neutron.privileged.default,
 --privsep_sock_path, /

NOTE: A second `--config-file` arg can also be added above. Since
many neutron components are installed like that (eg: by devstack).
Adjust to suit local requirements.
```

- `conf.rootwrap_filters.privsep.pods[0]`
  - Type: string
  - Description:
    - `dhcp_agent`
- `conf.rootwrap_filters.privsep.pods[1]`
  - Type: string
  - Description:
    - `l3_agent`
- `conf.rootwrap_filters.privsep.pods[2]`
  - Type: string
  - Description:
    - `lb_agent`

- `conf.rootwrap_filters.privsep.pods[3]`
  - Type: string
  - Description:
    - *metadata\_agent*
- `conf.rootwrap_filters.privsep.pods[4]`
  - Type: string
  - Description:
    - *ovn\_metadata\_agent*
- `conf.rootwrap_filters.privsep.pods[5]`
  - Type: string
  - Description:
    - *ovn\_vpn\_agent*
- `conf.rootwrap_filters.privsep.pods[6]`
  - Type: string
  - Description:
    - *ovs\_agent*
- `conf.rootwrap_filters.privsep.pods[7]`
  - Type: string
  - Description:
    - *sriov\_agent*
- `conf.rootwrap_filters.privsep.pods[8]`
  - Type: string
  - Description:
    - *netns\_cleanup\_cron*
- `conf.sriov_init[0]`
  - Type: string
  - Description:
    - *nil*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
  - Type: string
  - Description:
    - *neutron-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`
  - Type: string

- Description:
  - *node*
- dependencies.dynamic.common.local\_image\_registry.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.dynamic.targeted.bagpipe\_bgp
  - Type: object
  - Description:
  - *{}*
- dependencies.dynamic.targeted.bgp\_dragent
  - Type: object
  - Description:
  - *{}*
- dependencies.dynamic.targeted.l2gateway
  - Type: object
  - Description:
  - *{}*
- dependencies.dynamic.targeted.linuxbridge.dhcp.pod[0].labels.application
  - Type: string
  - Description:
  - *neutron*
- dependencies.dynamic.targeted.linuxbridge.dhcp.pod[0].labels.component
  - Type: string
  - Description:
  - *neutron-lb-agent*
- dependencies.dynamic.targeted.linuxbridge.dhcp.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.dynamic.targeted.linuxbridge.l3.pod[0].labels.application
  - Type: string
  - Description:
  - *neutron*



- dependencies.dynamic.targeted.linuxbridge.l3.pod[0].labels.component
  - Type: string
  - Description:
    - *neutron-lb-agent*
- dependencies.dynamic.targeted.linuxbridge.l3.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *true*
- dependencies.dynamic.targeted.linuxbridge.lb\_agent.pod
  - Type: string
  - Description:
    - *nil*
- dependencies.dynamic.targeted.linuxbridge.metadata.pod[0].labels.application
  - Type: string
  - Description:
    - *neutron*
- dependencies.dynamic.targeted.linuxbridge.metadata.pod[0].labels.component
  - Type: string
  - Description:
    - *neutron-lb-agent*
- dependencies.dynamic.targeted.linuxbridge.metadata.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *true*
- dependencies.dynamic.targeted.openvswitch.dhcp.pod[0].labels.application
  - Type: string
  - Description:
    - *neutron*
- dependencies.dynamic.targeted.openvswitch.dhcp.pod[0].labels.component
  - Type: string
  - Description:
    - *neutron-ovs-agent*
- dependencies.dynamic.targeted.openvswitch.dhcp.pod[0].requireSameNode
  - Type: bool

- Description:
  - *true*
- dependencies.dynamic.targeted.openvswitch.l3.pod[0].labels.application
  - Type: string
  - Description:
  - *neutron*
- dependencies.dynamic.targeted.openvswitch.l3.pod[0].labels.component
  - Type: string
  - Description:
  - *neutron-ovs-agent*
- dependencies.dynamic.targeted.openvswitch.l3.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.dynamic.targeted.openvswitch.metadata.pod[0].labels.application
  - Type: string
  - Description:
  - *neutron*
- dependencies.dynamic.targeted.openvswitch.metadata.pod[0].labels.component
  - Type: string
  - Description:
  - *neutron-ovs-agent*
- dependencies.dynamic.targeted.openvswitch.metadata.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.dynamic.targeted.ovn.server.pod
  - Type: string
  - Description:
  - *nil*
- dependencies.dynamic.targeted.sriov
  - Type: object
  - Description:
  - *{}*

- dependencies.static.bootstrap.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.bootstrap.services[0].service
  - Type: string
  - Description:
    - *network*
- dependencies.static.bootstrap.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.bootstrap.services[1].service
  - Type: string
  - Description:
    - *compute*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string

- Description:
  - *neutron-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.dhcp.jobs[0]
  - Type: string
  - Description:
  - *neutron-rabbit-init*
- dependencies.static.dhcp.pod
  - Type: string
  - Description:
  - *nil*
- dependencies.static.dhcp.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.dhcp.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.dhcp.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.dhcp.services[1].service
  - Type: string
  - Description:
  - *network*

- dependencies.static.dhcp.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.dhcp.services[2].service
  - Type: string
  - Description:
    - *compute*
- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
    - *local\_image\_registry*
- dependencies.static.ironic\_agent.jobs[0]
  - Type: string
  - Description:
    - *neutron-db-sync*
- dependencies.static.ironic\_agent.jobs[1]
  - Type: string
  - Description:
    - *neutron-ks-user*
- dependencies.static.ironic\_agent.jobs[2]
  - Type: string
  - Description:
    - *neutron-ks-endpoints*
- dependencies.static.ironic\_agent.jobs[3]
  - Type: string
  - Description:
    - *neutron-rabbit-init*
- dependencies.static.ironic\_agent.services[0].endpoint
  - Type: string

- Description:
  - *internal*
- dependencies.static.ironic\_agent.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.ironic\_agent.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ironic\_agent.services[1].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.ironic\_agent.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ironic\_agent.services[2].service
  - Type: string
  - Description:
  - *oslo\_cache*
- dependencies.static.ironic\_agent.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ironic\_agent.services[3].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_endpoints.jobs[0]
  - Type: string
  - Description:
  - *neutron-ks-service*

- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.l3.jobs[0]
  - Type: string
  - Description:
  - *neutron-rabbit-init*
- dependencies.static.l3.pod
  - Type: string
  - Description:
  - *nil*
- dependencies.static.l3.services[0].endpoint
  - Type: string

- Description:
  - *internal*
- dependencies.static.l3.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.l3.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.l3.services[1].service
  - Type: string
  - Description:
  - *network*
- dependencies.static.l3.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.l3.services[2].service
  - Type: string
  - Description:
  - *compute*
- dependencies.static.lb\_agent.jobs[0]
  - Type: string
  - Description:
  - *neutron-rabbit-init*
- dependencies.static.lb\_agent.pod
  - Type: string
  - Description:
  - *nil*
- dependencies.static.lb\_agent.services[0].endpoint
  - Type: string
  - Description:
  - *internal*



- dependencies.static.lb\_agent.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.lb\_agent.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.lb\_agent.services[1].service
  - Type: string
  - Description:
    - *network*
- dependencies.static.metadata.jobs[0]
  - Type: string
  - Description:
    - *neutron-rabbit-init*
- dependencies.static.metadata.pod
  - Type: string
  - Description:
    - *nil*
- dependencies.static.metadata.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.metadata.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.metadata.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.metadata.services[1].service
  - Type: string

- Description:
  - *network*
- dependencies.static.metadata.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.metadata.services[2].service
  - Type: string
  - Description:
  - *compute*
- dependencies.static.metadata.services[3].endpoint
  - Type: string
  - Description:
  - *public*
- dependencies.static.metadata.services[3].service
  - Type: string
  - Description:
  - *compute\_metadata*
- dependencies.static.ovn\_metadata.pod[0].labels.application
  - Type: string
  - Description:
  - *ovn*
- dependencies.static.ovn\_metadata.pod[0].labels.component
  - Type: string
  - Description:
  - *ovn-controller*
- dependencies.static.ovn\_metadata.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.static.ovn\_metadata.services[0].endpoint
  - Type: string
  - Description:
  - *internal*

- dependencies.static.ovn\_metadata.services[0].service
  - Type: string
  - Description:
    - *compute\_metadata*
- dependencies.static.ovn\_metadata.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ovn\_metadata.services[1].service
  - Type: string
  - Description:
    - *network*
- dependencies.static.ovn\_vpn\_agent.pod[0].labels.application
  - Type: string
  - Description:
    - *ovn*
- dependencies.static.ovn\_vpn\_agent.pod[0].labels.component
  - Type: string
  - Description:
    - *ovn-controller*
- dependencies.static.ovn\_vpn\_agent.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *true*
- dependencies.static.ovn\_vpn\_agent.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ovn\_vpn\_agent.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.ovn\_vpn\_agent.services[1].endpoint
  - Type: string

- Description:
  - *internal*
- dependencies.static.ovn\_vpn\_agent.services[1].service
  - Type: string
  - Description:
  - *network*
- dependencies.static.ovs\_agent.jobs[0]
  - Type: string
  - Description:
  - *neutron-rabbit-init*
- dependencies.static.ovs\_agent.pod[0].labels.application
  - Type: string
  - Description:
  - *openvswitch*
- dependencies.static.ovs\_agent.pod[0].labels.component
  - Type: string
  - Description:
  - *server*
- dependencies.static.ovs\_agent.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.static.ovs\_agent.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.ovs\_agent.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.ovs\_agent.services[1].endpoint
  - Type: string
  - Description:
  - *internal*

- dependencies.static.ovs\_agent.services[1].service
  - Type: string
  - Description:
    - *network*
- dependencies.static.rabbit\_init.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.rabbit\_init.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.rpc\_server.jobs[0]
  - Type: string
  - Description:
    - *neutron-db-sync*
- dependencies.static.rpc\_server.jobs[1]
  - Type: string
  - Description:
    - *neutron-rabbit-init*
- dependencies.static.rpc\_server.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.rpc\_server.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.rpc\_server.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.rpc\_server.services[1].service
  - Type: string

- Description:
  - *oslo\_messaging*
- dependencies.static.rpc\_server.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.rpc\_server.services[2].service
  - Type: string
  - Description:
  - *oslo\_cache*
- dependencies.static.rpc\_server.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.rpc\_server.services[3].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.server.jobs[0]
  - Type: string
  - Description:
  - *neutron-db-sync*
- dependencies.static.server.jobs[1]
  - Type: string
  - Description:
  - *neutron-ks-user*
- dependencies.static.server.jobs[2]
  - Type: string
  - Description:
  - *neutron-ks-endpoints*
- dependencies.static.server.jobs[3]
  - Type: string
  - Description:
  - *neutron-rabbit-init*

- dependencies.static.server.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.server.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.server.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.server.services[1].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.server.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.server.services[2].service
  - Type: string
  - Description:
    - *oslo\_cache*
- dependencies.static.server.services[3].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.server.services[3].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.tests.services[0].endpoint
  - Type: string

- Description:
  - *internal*
- dependencies.static.tests.services[0].service
  - Type: string
  - Description:
  - *network*
- dependencies.static.tests.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.tests.services[1].service
  - Type: string
  - Description:
  - *compute*
- endpoints.baremetal.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.baremetal.hosts.default
  - Type: string
  - Description:
  - *ironic-api*
- endpoints.baremetal.hosts.public
  - Type: string
  - Description:
  - *ironic*
- endpoints.baremetal.name
  - Type: string
  - Description:
  - *ironic*
- endpoints.baremetal.path.default
  - Type: string
  - Description:
  - *nil*



- endpoints.baremetal.port.api.default
  - Type: int
  - Description:
  - *6385*
- endpoints.baremetal.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.baremetal.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
  - *cluster.local*
- endpoints.compute.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.compute.hosts.default
  - Type: string
  - Description:
  - *nova-api*
- endpoints.compute.hosts.public
  - Type: string
  - Description:
  - *nova*
- endpoints.compute.name
  - Type: string
  - Description:
  - *nova*
- endpoints.compute.path.default
  - Type: string

- Description:
  - */v2.1/(tenant\_id)s*
- endpoints.compute.port.api.default
  - Type: int
  - Description:
  - *8774*
- endpoints.compute.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.compute.port.novncproxy.default
  - Type: int
  - Description:
  - *6080*
- endpoints.compute.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.compute\_metadata.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.compute\_metadata.hosts.default
  - Type: string
  - Description:
  - *nova-metadata*
- endpoints.compute\_metadata.hosts.public
  - Type: string
  - Description:
  - *metadata*
- endpoints.compute\_metadata.name
  - Type: string
  - Description:
  - *nova*

- endpoints.compute\_metadata.path.default
  - Type: string
  - Description:
  - /
- endpoints.compute\_metadata.port.metadata.default
  - Type: int
  - Description:
  - 8775
- endpoints.compute\_metadata.port.metadata.public
  - Type: int
  - Description:
  - 80
- endpoints.compute\_metadata.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.dns.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.dns.hosts.default
  - Type: string
  - Description:
  - *designate-api*
- endpoints.dns.hosts.public
  - Type: string
  - Description:
  - *designate*
- endpoints.dns.name
  - Type: string
  - Description:
  - *designate*
- endpoints.dns.path.default
  - Type: string

- Description:
  - /
- endpoints.dns.port.api.default
  - Type: int
  - Description:
  - *9001*
- endpoints.dns.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.dns.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.fluentd.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
  - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
  - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
  - *osh-infra*
- endpoints.fluentd.path.default
  - Type: string
  - Description:
  - *nil*

- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
  - *24220*
- endpoints.fluentd.port.service.default
  - Type: int
  - Description:
  - *24224*
- endpoints.fluentd.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.identity.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string

- Description:
  - *admin*
- endpoints.identity.auth.designate.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.designate.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.designate.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.designate.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.designate.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.designate.username
  - Type: string
  - Description:
  - *designate*
- endpoints.identity.auth.ironic.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.ironic.project\_domain\_name
  - Type: string
  - Description:
  - *service*

- endpoints.identity.auth.ironic.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.ironic.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.ironic.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.ironic.username
  - Type: string
  - Description:
    - *ironic*
- endpoints.identity.auth.neutron.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.neutron.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.neutron.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.neutron.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.neutron.role
  - Type: string

- Description:
  - *admin,service*
- endpoints.identity.auth.neutron.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.neutron.username
  - Type: string
  - Description:
  - *neutron*
- endpoints.identity.auth.nova.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.nova.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.nova.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.nova.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.nova.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.nova.username
  - Type: string
  - Description:
  - *nova*



- endpoints.identity.auth.placement.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.placement.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.placement.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.placement.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.placement.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.placement.username
  - Type: string
  - Description:
    - *placement*
- endpoints.identity.auth.test.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.test.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.test.project\_name
  - Type: string

- Description:
  - *test*
- endpoints.identity.auth.test.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.test.role
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.test.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.test.username
  - Type: string
  - Description:
  - *neutron-test*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
  - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
  - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:
  - *keystone*

- endpoints.identity.path.default
  - Type: string
  - Description:
  - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
  - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
  - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
  - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
  - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
  - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:
  - *80*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string

- Description:
  - *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
  - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
  - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
  - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
  - *53*
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
  - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:
  - *http*
- endpoints.load\_balancer.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*

- endpoints.load\_balancer.hosts.default
  - Type: string
  - Description:
    - *octavia-api*
- endpoints.load\_balancer.hosts.public
  - Type: string
  - Description:
    - *octavia*
- endpoints.load\_balancer.name
  - Type: string
  - Description:
    - *octavia*
- endpoints.load\_balancer.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.load\_balancer.port.api.default
  - Type: int
  - Description:
    - *9876*
- endpoints.load\_balancer.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.load\_balancer.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.local\_image\_registry.hosts.default
  - Type: string

- Description:
  - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
  - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
  - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
  - *5000*
- endpoints.network.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.network.hosts.default
  - Type: string
  - Description:
  - *neutron-server*
- endpoints.network.hosts.public
  - Type: string
  - Description:
  - *neutron*

- endpoints.network.name
  - Type: string
  - Description:
    - *neutron*
- endpoints.network.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.network.port.api.default
  - Type: int
  - Description:
    - *9696*
- endpoints.network.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.network.port.api.service
  - Type: int
  - Description:
    - *9696*
- endpoints.network.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.network.scheme.service
  - Type: string
  - Description:
    - *http*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
    - *false*
- endpoints.oci\_image\_registry.auth.neutron.password
  - Type: string

- Description:
  - *password*
- endpoints.oci\_image\_registry.auth.neutron.username
  - Type: string
  - Description:
  - *neutron*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*



- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
    - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:
    - *11211*
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
    - *root*
- endpoints.oslo\_db.auth.neutron.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.neutron.username
  - Type: string
  - Description:
    - *neutron*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string

- Description:
  - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
  - */neutron*
- endpoints.oslo\_db.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.admin.secret.tls.internal
  - Type: string
  - Description:
  - *rabbitmq-tls-direct*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.auth.neutron.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.neutron.username
  - Type: string
  - Description:
  - *neutron*

- endpoints.oslo\_messaging.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
  - */neutron*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
  - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int
  - Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*
- health\_probe.logging.level
  - Type: string

- Description:
  - *ERROR*
- helm3\_hook
  - Type: bool
  - Description:
  - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
  - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
  - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
  - *IfNotPresent*
- images.tags.bootstrap
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_drop
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*

- images.tags.dep\_check
  - Type: string
  - Description:
    - *quay.io/airshipit/kubernetes-entripoint:latest-ubuntu\_focal*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
    - *docker.io/docker:17.07.0*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.netoffload
  - Type: string
  - Description:
    - *ghcr.io/vexxhost/netoffload:v1.0.1*
- images.tags.neutron\_bagpipe\_bgp
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_bgp\_dragent
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_db\_sync
  - Type: string

- Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_dhcp
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_ironic\_agent
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_l2gw
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_l3
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_linuxbridge\_agent
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_metadata
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_netns\_cleanup\_cron
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_openvswitch\_agent
  - Type: string
  - Description:
  - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*

- images.tags.neutron\_ovn\_metadata
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_ovn\_vpn
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_rpc\_server
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_server
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:2024.1-ubuntu\_jammy*
- images.tags.neutron\_sriov\_agent
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:stein-18.04-sriov*
- images.tags.neutron\_sriov\_agent\_init
  - Type: string
  - Description:
    - *quay.io/airshipit/neutron:stein-18.04-sriov*
- images.tags.purge\_test
  - Type: string
  - Description:
    - *docker.io/openstackhelm/ospurge:latest*
- images.tags.rabbit\_init
  - Type: string
  - Description:
    - *docker.io/rabbitmq:3.13-management*
- images.tags.test
  - Type: string

- Description:
  - *docker.io/xrally/xrally-openstack:2.0.0*
- labels.agent.dhcp.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.agent.dhcp.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.agent.l2gw.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.agent.l2gw.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.agent.l3.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.agent.l3.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.agent.metadata.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.agent.metadata.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*



- labels.agent.ovn\_vpn.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.agent.ovn\_vpn.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.bagpipe\_bgp.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-compute-node*
- labels.bagpipe\_bgp.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.bgp\_dragent.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-compute-node*
- labels.bgp\_dragent.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.ironic\_agent.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.ironic\_agent.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.job.node\_selector\_key
  - Type: string

- Description:
  - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.lb.node\_selector\_key
  - Type: string
  - Description:
  - *linuxbridge*
- labels.lb.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.netns\_cleanup\_cron.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.netns\_cleanup\_cron.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.ovs.node\_selector\_key
  - Type: string
  - Description:
  - *openvswitch*
- labels.ovs.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.rpc\_server.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*

- labels.rpc\_server.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.server.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.server.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.sriov.node\_selector\_key
  - Type: string
  - Description:
    - *sriov*
- labels.sriov.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- manifests.certificates
  - Type: bool
  - Description:
    - *false*
- manifests.configmap\_bin
  - Type: bool

- Description:
  - *true*
- manifests.configmap\_etc
  - Type: bool
  - Description:
  - *true*
- manifests.daemonset\_bagpipe\_bgp
  - Type: bool
  - Description:
  - *false*
- manifests.daemonset\_bgp\_dragonet
  - Type: bool
  - Description:
  - *false*
- manifests.daemonset\_dhcp\_agent
  - Type: bool
  - Description:
  - *true*
- manifests.daemonset\_l2gw\_agent
  - Type: bool
  - Description:
  - *false*
- manifests.daemonset\_l3\_agent
  - Type: bool
  - Description:
  - *true*
- manifests.daemonset\_lb\_agent
  - Type: bool
  - Description:
  - *true*
- manifests.daemonset\_metadata\_agent
  - Type: bool
  - Description:
  - *true*

- manifests.daemonset\_netns\_cleanup\_cron
  - Type: bool
  - Description:
    - *true*
- manifests.daemonset\_ovn\_metadata\_agent
  - Type: bool
  - Description:
    - *false*
- manifests.daemonset\_ovn\_vpn\_agent
  - Type: bool
  - Description:
    - *false*
- manifests.daemonset\_ovs\_agent
  - Type: bool
  - Description:
    - *true*
- manifests.daemonset\_sriov\_agent
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_ironic\_agent
  - Type: bool
  - Description:
    - *false*
- manifests.deployment\_rpc\_server
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_server
  - Type: bool
  - Description:
    - *true*
- manifests.ingress\_server
  - Type: bool

- Description:
  - *true*
- manifests.job\_bootstrap
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
  - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
  - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
  - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
  - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
  - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:
  - *true*

- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
  - *true*
- manifests.network\_policy
  - Type: bool
  - Description:
  - *false*
- manifests.pdb\_server
  - Type: bool
  - Description:
  - *true*
- manifests.pod\_rally\_test
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_ingress\_tls
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_registry
  - Type: bool

- Description:
  - *true*
- manifests.service\_ingress\_server
  - Type: bool
  - Description:
  - *true*
- manifests.service\_server
  - Type: bool
  - Description:
  - *true*
- network.backend[0]
  - Type: string
  - Description:
  - *openvswitch*
- network.interface.tunnel
  - Type: string
  - Description:
  - *nil*
- network.interface.tunnel\_network\_cidr
  - Type: string
  - Description:
  - *0/0*
- network.server.external\_policy\_local
  - Type: bool
  - Description:
  - *false*
- network.server.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - */*
- network.server.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*



- network.server.ingress.classes.namespace
  - Type: string
  - Description:
    - *nginx*
- network.server.ingress.public
  - Type: bool
  - Description:
    - *true*
- network.server.node\_port.enabled
  - Type: bool
  - Description:
    - *false*
- network.server.node\_port.port
  - Type: int
  - Description:
    - *30096*
- network.share\_namespaces
  - Type: bool
  - Description:
    - *true*
- network\_policy.neutron.egress[0]
  - Type: object
  - Description:
    - *{}*
- network\_policy.neutron.ingress[0]
  - Type: object
  - Description:
    - *{}*
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
    - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string

- Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.server.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.termination\_grace\_period.ironic\_agent.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.termination\_grace\_period.rpc\_server.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.termination\_grace\_period.server.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.upgrades.daemonsets.dhcp\_agent.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.dhcp\_agent.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.dhcp\_agent.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*

- `pod.lifecycle.upgrades.daemonsets.l3_agent.enabled`
  - Type: bool
  - Description:
  - *true*
- `pod.lifecycle.upgrades.daemonsets.l3_agent.max_unavailable`
  - Type: int
  - Description:
  - *1*
- `pod.lifecycle.upgrades.daemonsets.l3_agent.min_ready_seconds`
  - Type: int
  - Description:
  - *0*
- `pod.lifecycle.upgrades.daemonsets.lb_agent.enabled`
  - Type: bool
  - Description:
  - *true*
- `pod.lifecycle.upgrades.daemonsets.lb_agent.max_unavailable`
  - Type: int
  - Description:
  - *1*
- `pod.lifecycle.upgrades.daemonsets.lb_agent.min_ready_seconds`
  - Type: int
  - Description:
  - *0*
- `pod.lifecycle.upgrades.daemonsets.metadata_agent.enabled`
  - Type: bool
  - Description:
  - *true*
- `pod.lifecycle.upgrades.daemonsets.metadata_agent.max_unavailable`
  - Type: int
  - Description:
  - *1*
- `pod.lifecycle.upgrades.daemonsets.metadata_agent.min_ready_seconds`
  - Type: int

- Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.netns\_cleanup\_cron.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.netns\_cleanup\_cron.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.netns\_cleanup\_cron.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.ovn\_metadata\_agent.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.ovn\_metadata\_agent.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.ovn\_metadata\_agent.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.ovn\_vpn\_agent.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.ovn\_vpn\_agent.max\_unavailable
  - Type: int
  - Description:
  - *1*

- pod.lifecycle.upgrades.daemonsets.ovn\_vpn\_agent.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.ovs\_agent.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.ovs\_agent.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.ovs\_agent.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.daemonsets.sriov\_agent.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.sriov\_agent.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.sriov\_agent.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string

- Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - 3
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:
  - 1
- pod.mounts.bagpipe\_bgp.bagpipe\_bgp.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.bagpipe\_bgp.bagpipe\_bgp.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.bagpipe\_bgp.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.bgp\_dragent.bgp\_dragent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.bgp\_dragent.bgp\_dragent.volumes
  - Type: string
  - Description:
  - *nil*

- pod.mounts.bgp\_dragent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_bootstrap.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_bootstrap.neutron\_bootstrap.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_bootstrap.neutron\_bootstrap.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_db\_sync.neutron\_db\_sync.volumeMounts[0].mountPath
  - Type: string
  - Description:
  - */etc/neutron/plugins/ml2/ml2\_conf.ini*
- pod.mounts.neutron\_db\_sync.neutron\_db\_sync.volumeMounts[0].name
  - Type: string
  - Description:
  - *db-sync-conf*
- pod.mounts.neutron\_db\_sync.neutron\_db\_sync.volumeMounts[0].readOnly
  - Type: bool
  - Description:
  - *true*
- pod.mounts.neutron\_db\_sync.neutron\_db\_sync.volumeMounts[0].subPath
  - Type: string
  - Description:
  - *ml2\_conf.ini*
- pod.mounts.neutron\_db\_sync.neutron\_db\_sync.volumes
  - Type: string

- Description:
  - *nil*
- pod.mounts.neutron\_dhcp\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_dhcp\_agent.neutron\_dhcp\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_dhcp\_agent.neutron\_dhcp\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ironic\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ironic\_agent.neutron\_ironic\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ironic\_agent.neutron\_ironic\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_l2gw\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_l2gw\_agent.neutron\_l2gw\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*



- pod.mounts.neutron\_l2gw\_agent.neutron\_l2gw\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_l3\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_l3\_agent.neutron\_l3\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_l3\_agent.neutron\_l3\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_lb\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_lb\_agent.neutron\_lb\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_lb\_agent.neutron\_lb\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_metadata\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_metadata\_agent.neutron\_metadata\_agent.volumeMounts
  - Type: string

- Description:
  - *nil*
- pod.mounts.neutron\_metadata\_agent.neutron\_metadata\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_netns\_cleanup\_cron.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_netns\_cleanup\_cron.neutron\_netns\_cleanup\_cron.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_netns\_cleanup\_cron.neutron\_netns\_cleanup\_cron.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ovn\_metadata\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ovn\_metadata\_agent.neutron\_ovn\_metadata\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ovn\_metadata\_agent.neutron\_ovn\_metadata\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ovs\_agent.init\_container
  - Type: string
  - Description:
  - *nil*

- pod.mounts.neutron\_ovs\_agent.neutron\_ovs\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_ovs\_agent.neutron\_ovs\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_rpc\_server.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_rpc\_server.neutron\_rpc\_server.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_rpc\_server.neutron\_rpc\_server.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_server.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_server.neutron\_server.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_server.neutron\_server.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_sriov\_agent.init\_container
  - Type: string

- Description:
  - *nil*
- pod.mounts.neutron\_sriov\_agent.neutron\_sriov\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_sriov\_agent.neutron\_sriov\_agent.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_tests.neutron\_tests.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.neutron\_tests.neutron\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.ovn\_vpn\_agent.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.ovn\_vpn\_agent.ovn\_vpn\_agent.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.ovn\_vpn\_agent.ovn\_vpn\_agent.volumes
  - Type: string
  - Description:
  - *nil*

- pod.probes.bagpipe\_bgp.bagpipe\_bgp.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.bagpipe\_bgp.bagpipe\_bgp.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.bagpipe\_bgp.bagpipe\_bgp.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.bagpipe\_bgp.bagpipe\_bgp.readiness.params
  - Type: string
  - Description:
  - *nil*
- pod.probes.bgp\_dragent.bgp\_dragent.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.bgp\_dragent.bgp\_dragent.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.bgp\_dragent.bgp\_dragent.readiness.enabled
  - Type: bool
  - Description:
  - *false*
- pod.probes.bgp\_dragent.bgp\_dragent.readiness.params
  - Type: string
  - Description:
  - *nil*
- pod.probes.dhcp\_agent.dhcp\_agent.liveness.enabled
  - Type: bool

- Description:
  - *true*
- pod.probes.dhcp\_agent.dhcp\_agent.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*
- pod.probes.dhcp\_agent.dhcp\_agent.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *600*
- pod.probes.dhcp\_agent.dhcp\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *580*
- pod.probes.dhcp\_agent.dhcp\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.dhcp\_agent.dhcp\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.dhcp\_agent.dhcp\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *190*
- pod.probes.dhcp\_agent.dhcp\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *185*
- pod.probes.l2gw\_agent.l2gw\_agent.liveness.enabled
  - Type: bool
  - Description:
  - *true*

- pod.probes.l2gw\_agent.l2gw\_agent.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*
- pod.probes.l2gw\_agent.l2gw\_agent.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.l2gw\_agent.l2gw\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.l2gw\_agent.l2gw\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.l2gw\_agent.l2gw\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.l2gw\_agent.l2gw\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.l2gw\_agent.l2gw\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *65*
- pod.probes.l3\_agent.l3\_agent.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.l3\_agent.l3\_agent.liveness.params.initialDelaySeconds
  - Type: int

- Description:
  - *120*
- pod.probes.l3\_agent.l3\_agent.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *600*
- pod.probes.l3\_agent.l3\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *580*
- pod.probes.l3\_agent.l3\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.l3\_agent.l3\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.l3\_agent.l3\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *190*
- pod.probes.l3\_agent.l3\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *185*
- pod.probes.lb\_agent.lb\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.metadata\_agent.metadata\_agent.liveness.enabled
  - Type: bool
  - Description:
  - *true*



- pod.probes.metadata\_agent.metadata\_agent.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*
- pod.probes.metadata\_agent.metadata\_agent.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *600*
- pod.probes.metadata\_agent.metadata\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *580*
- pod.probes.metadata\_agent.metadata\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.metadata\_agent.metadata\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.metadata\_agent.metadata\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *190*
- pod.probes.metadata\_agent.metadata\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *185*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.liveness.params.initialDelaySeconds
  - Type: int

- Description:
  - *120*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *600*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *580*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *190*
- pod.probes.ovn\_metadata\_agent.ovn\_metadata\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *185*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*

- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *600*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *580*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *190*
- pod.probes.ovn\_vpn\_agent.ovn\_vpn\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *185*
- pod.probes.ovs\_agent.ovs\_agent.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.ovs\_agent.ovs\_agent.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*
- pod.probes.ovs\_agent.ovs\_agent.liveness.params.periodSeconds
  - Type: int

- Description:
  - *600*
- pod.probes.ovs\_agent.ovs\_agent.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *580*
- pod.probes.ovs\_agent.ovs\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.ovs\_agent.ovs\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *10*
- pod.probes.rpc\_retries
  - Type: int
  - Description:
  - *2*
- pod.probes.rpc\_server.rpc\_server.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.rpc\_server.rpc\_server.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.rpc\_server.rpc\_server.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.rpc\_server.rpc\_server.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *10*

- pod.probes.rpc\_server.rpc\_server.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.rpc\_server.rpc\_server.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.rpc\_server.rpc\_server.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *10*
- pod.probes.rpc\_timeout
  - Type: int
  - Description:
  - *60*
- pod.probes.server.server.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.server.server.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.server.server.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.server.server.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *10*
- pod.probes.server.server.readiness.enabled
  - Type: bool

- Description:
  - *true*
- pod.probes.server.server.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.server.server.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *10*
- pod.probes.sriov\_agent.sriov\_agent.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.sriov\_agent.sriov\_agent.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.sriov\_agent.sriov\_agent.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *190*
- pod.probes.sriov\_agent.sriov\_agent.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *185*
- pod.replicas.ironic\_agent
  - Type: int
  - Description:
  - *1*
- pod.replicas.rpc\_server
  - Type: int
  - Description:
  - *1*

- pod.replicas.server
  - Type: int
  - Description:
  - *1*
- pod.resources.agent.bagpipe\_bgp.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.bagpipe\_bgp.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.bagpipe\_bgp.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.bagpipe\_bgp.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.bgp\_dragent.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.bgp\_dragent.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.bgp\_dragent.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.bgp\_dragent.requests.memory
  - Type: string

- Description:
  - *128Mi*
- pod.resources.agent.dhcp.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.dhcp.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.dhcp.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.dhcp.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.l2gw.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.l2gw.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.l2gw.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.l2gw.requests.memory
  - Type: string
  - Description:
  - *128Mi*



- pod.resources.agent.l3.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.l3.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.l3.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.l3.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.lb.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.lb.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.lb.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.lb.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.metadata.limits.cpu
  - Type: string

- Description:
  - *2000m*
- pod.resources.agent.metadata.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.metadata.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.metadata.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.ovn\_metadata.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.ovn\_metadata.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.ovn\_metadata.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.ovn\_metadata.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.ovn\_vpn.limits.cpu
  - Type: string
  - Description:
  - *2000m*

- pod.resources.agent.ovn\_vpn.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.ovn\_vpn.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.ovn\_vpn.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.ovs.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.ovs.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.agent.ovs.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.ovs.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.agent.sriov.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.agent.sriov.limits.memory
  - Type: string

- Description:
  - *1024Mi*
- pod.resources.agent.sriov.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.agent.sriov.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.ironic\_agent.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.ironic\_agent.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.ironic\_agent.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.ironic\_agent.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
  - Type: string
  - Description:
  - *2000m*

- pod.resources.jobs.bootstrap.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.bootstrap.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string

- Description:
  - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*

- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string

- Description:
  - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*



- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.netns\_cleanup\_cron.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.netns\_cleanup\_cron.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.netns\_cleanup\_cron.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.netns\_cleanup\_cron.requests.memory
  - Type: string

- Description:
  - *128Mi*
- pod.resources.server.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.server.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.server.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.server.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.security\_context.neutron\_bagpipe\_bgp.container.neutron\_bagpipe\_bgp.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_bagpipe\_bgp.container.neutron\_bagpipe\_bgp.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_bagpipe\_bgp.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_bgp\_dragent.container.neutron\_bgp\_dragent.privileged
  - Type: bool
  - Description:
  - *true*

- pod.security\_context.neutron\_bgp\_dagent.container.neutron\_bgp\_dagent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_bgp\_dagent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_dhcp\_agent.container.neutron\_dhcp\_agent.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_dhcp\_agent.container.neutron\_dhcp\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_dhcp\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_ironic\_agent.container.neutron\_ironic\_agent.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.neutron\_ironic\_agent.container.neutron\_ironic\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ironic\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_l2gw\_agent.container.neutron\_l2gw\_agent.privileged
  - Type: bool

- Description:
  - *true*
- pod.security\_context.neutron\_l2gw\_agent.container.neutron\_l2gw\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_l2gw\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_l3\_agent.container.neutron\_l3\_agent.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_l3\_agent.container.neutron\_l3\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_l3\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_init.privileged
  - Type: bool
  - Description:
  - *true*

- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_init.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_kernel\_modules.capabilities.add[0]
  - Type: string
  - Description:
  - *SYS\_MODULE*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_kernel\_modules.capabilities.add[1]
  - Type: string
  - Description:
  - *SYS\_CHROOT*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_kernel\_modules.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_lb\_agent.container.neutron\_lb\_agent\_kernel\_modules.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_lb\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_metadata\_agent.container.neutron\_metadata\_agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_metadata\_agent.container.neutron\_metadata\_agent\_init.runAsUser
  - Type: int

- Description:
  - *0*
- pod.security\_context.neutron\_metadata\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_netns\_cleanup\_cron.container.neutron\_netns\_cleanup\_cron.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_netns\_cleanup\_cron.container.neutron\_netns\_cleanup\_cron.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_netns\_cleanup\_cron.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_ovn\_metadata\_agent.container.neutron\_ovn\_metadata\_agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ovn\_metadata\_agent.container.neutron\_ovn\_metadata\_agent\_init.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_ovn\_metadata\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_ovs\_agent.container.netoffload.privileged
  - Type: bool
  - Description:
  - *true*

- pod.security\_context.neutron\_ovs\_agent.container.netoffload.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ovs\_agent.container.netoffload.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_openswitch\_agent\_kernel\_modules.capabilities.add[0]
  - Type: string
  - Description:
  - *SYS\_MODULE*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_openswitch\_agent\_kernel\_modules.capabilities.add[1]
  - Type: string
  - Description:
  - *SYS\_CHROOT*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_openswitch\_agent\_kernel\_modules.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_openswitch\_agent\_kernel\_modules.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_ovs\_agent.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_ovs\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_ovs\_agent\_init.privileged
  - Type: bool

- Description:
  - *true*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_ovs\_agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_ovs\_agent.container.neutron\_ovs\_agent\_init.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_ovs\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_rpc\_server.container.neutron\_rpc\_server.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.neutron\_rpc\_server.container.neutron\_rpc\_server.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_rpc\_server.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_server.container.neutron\_server.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.neutron\_server.container.neutron\_server.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*



- pod.security\_context.neutron\_server.container.nginx.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.neutron\_server.container.nginx.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_server.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.neutron\_sriov\_agent.container.neutron\_sriov\_agent.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_sriov\_agent.container.neutron\_sriov\_agent.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_sriov\_agent.container.neutron\_sriov\_agent\_init.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.neutron\_sriov\_agent.container.neutron\_sriov\_agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.neutron\_sriov\_agent.container.neutron\_sriov\_agent\_init.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.neutron\_sriov\_agent.pod.runAsUser
  - Type: int

- Description:
  - *42424*
- pod.security\_context.ovn\_vpn\_agent.container.ovn\_vpn\_agent\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.ovn\_vpn\_agent.container.ovn\_vpn\_agent\_init.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.ovn\_vpn\_agent.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.tolerations.neutron.enabled
  - Type: bool
  - Description:
  - *false*
- pod.tolerations.neutron.tolerations[0].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.neutron.tolerations[0].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/master*
- pod.tolerations.neutron.tolerations[0].operator
  - Type: string
  - Description:
  - *Exists*
- pod.tolerations.neutron.tolerations[1].effect
  - Type: string
  - Description:
  - *NoSchedule*

- pod.tolerations.neutron.tolerations[1].key
  - Type: string
  - Description:
    - *node-role.kubernetes.io/control-plane*
- pod.tolerations.neutron.tolerations[1].operator
  - Type: string
  - Description:
    - *Exists*
- pod.use\_fqdn.neutron\_agent
  - Type: bool
  - Description:
    - *true*
- release\_group
  - Type: string
  - Description:
    - *nil*
- secrets.identity.admin
  - Type: string
  - Description:
    - *neutron-keystone-admin*
- secrets.identity.neutron
  - Type: string
  - Description:
    - *neutron-keystone-user*
- secrets.identity.test
  - Type: string
  - Description:
    - *neutron-keystone-test*
- secrets.oci\_image\_registry.neutron
  - Type: string
  - Description:
    - *neutron-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string

- Description:
  - *neutron-db-admin*
- secrets.oslo\_db.neutron
  - Type: string
  - Description:
  - *neutron-db-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
  - *neutron-rabbitmq-admin*
- secrets.oslo\_messaging.neutron
  - Type: string
  - Description:
  - *neutron-rabbitmq-user*
- secrets.tls.compute\_metadata.metadata.internal
  - Type: string
  - Description:
  - *metadata-tls-metadata*
- secrets.tls.network.server.internal
  - Type: string
  - Description:
  - *neutron-tls-server*
- secrets.tls.network.server.public
  - Type: string
  - Description:
  - *neutron-tls-public*
- tls.identity
  - Type: bool
  - Description:
  - *false*
- tls.oslo\_db
  - Type: bool
  - Description:
  - *false*

- `tls.oslo_messaging`
  - Type: `bool`
  - Description:
  - *false*

## 3.18 Nova

There are various customizations you can do to tailor the deployment of OpenStack Nova. You can find those below.

### 3.18.1 General Parameters

- `bootstrap.enabled`
  - Type: `bool`
  - Description:
  - *true*
- `bootstrap.ks_user`
  - Type: `string`
  - Description:
  - *admin*
- `bootstrap.script`
  - Type: `string`
  - Description:
  - *nil*
- `bootstrap.structured.flavors.enabled`
  - Type: `bool`
  - Description:
  - *true*
- `bootstrap.structured.flavors.options.m1_large.disk`
  - Type: `int`
  - Description:
  - *80*
- `bootstrap.structured.flavors.options.m1_large.name`
  - Type: `string`
  - Description:
  - *m1.large*
- `bootstrap.structured.flavors.options.m1_large.ram`

- Type: int
  - Description:
  - *8192*
- bootstrap.structured.flavors.options.m1\_large.vcpus
  - Type: int
  - Description:
  - *4*
- bootstrap.structured.flavors.options.m1\_medium.disk
  - Type: int
  - Description:
  - *40*
- bootstrap.structured.flavors.options.m1\_medium.name
  - Type: string
  - Description:
  - *m1.medium*
- bootstrap.structured.flavors.options.m1\_medium.ram
  - Type: int
  - Description:
  - *4096*
- bootstrap.structured.flavors.options.m1\_medium.vcpus
  - Type: int
  - Description:
  - *2*
- bootstrap.structured.flavors.options.m1\_small.disk
  - Type: int
  - Description:
  - *20*
- bootstrap.structured.flavors.options.m1\_small.name
  - Type: string
  - Description:
  - *m1.small*
- bootstrap.structured.flavors.options.m1\_small.ram
  - Type: int
  - Description:

- 2048
- bootstrap.structured.flavors.options.m1\_small.vcpus
  - Type: int
  - Description:
  - 1
- bootstrap.structured.flavors.options.m1\_tiny.disk
  - Type: int
  - Description:
  - 1
- bootstrap.structured.flavors.options.m1\_tiny.name
  - Type: string
  - Description:
  - *m1.tiny*
- bootstrap.structured.flavors.options.m1\_tiny.ram
  - Type: int
  - Description:
  - 512
- bootstrap.structured.flavors.options.m1\_tiny.vcpus
  - Type: int
  - Description:
  - 1
- bootstrap.structured.flavors.options.m1\_xlarge.disk
  - Type: int
  - Description:
  - 160
- bootstrap.structured.flavors.options.m1\_xlarge.name
  - Type: string
  - Description:
  - *m1.xlarge*
- bootstrap.structured.flavors.options.m1\_xlarge.ram
  - Type: int
  - Description:
  - 16384
- bootstrap.structured.flavors.options.m1\_xlarge.vcpus

- Type: int
- Description:
- 8
- bootstrap.wait\_for\_computes.enabled
  - Type: bool
  - Description:
  - *false*
- bootstrap.wait\_for\_computes.remaining\_wait
  - Type: int
  - Description:
  - 300
- bootstrap.wait\_for\_computes.scripts.init\_script
  - Type: string
  - Description:

```
- # This runs in a bootstrap init container. It counts the number of ↵
↵ compute nodes.
COMPUTE_NODES=$(kubectl get nodes -o custom-columns=NAME:.metadata.
↵ name -l openstack-compute-node=enabled --no-headers | sort)
/bin/echo $COMPUTE_NODES > /tmp/compute_nodes.txt
```

- bootstrap.wait\_for\_computes.scripts.wait\_script
  - Type: string
  - Description:

```
- # This script runs in the main bootstrap container just before the
bootstrap.script is called.
COMPUTE_HOSTS=`cat /tmp/compute_nodes.txt | wc -w`
if [[$COMPUTE_HOSTS == 0]]; then
 echo \"There are no compute hosts found!\"
 exit 1
fi

Wait for all hypervisors to come up before moving on with the ↵
↵ deployment
HYPERVISOR_WAIT=true
WAIT_AFTER_READY=0
SLEEP=5
while [[$HYPERVISOR_WAIT == true]]; do
 # Its possible that openstack command may fail due to not being ↵
↵ able to
 # reach the compute service
 set +e
```

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```

HYPERVISORS=$(openstack hypervisor list -f value -c 'Hypervisor_
↪Hostname' | wc -w)
set -e

PERCENT_READY=$(($HYPERVISORS * 100 / $COMPUTE_HOSTS))
if [[$PERCENT_READY -ge $WAIT_PERCENTAGE]]; then
 echo \"Hypervisor ready percentage is $PERCENT_READY\"
 if [[$PERCENT_READY == 100]]; then
 HYPERVISOR_WAIT=false
 echo \"All hypervisors are ready.\"
 elif [[WAIT_AFTER_READY -ge $REMAINING_WAIT]]; then
 HYPERVISOR_WAIT=false
 echo \"Waited the configured time -- $HYPERVISORS out of
↪$COMPUTE_HOSTS hypervisor(s) ready -- proceeding with the_
↪bootstrap.\"
 else
 sleep $SLEEP
 WAIT_AFTER_READY=$(($WAIT_AFTER_READY + $SLEEP))
 fi
else
 echo \"Waiting $SLEEP seconds for enough hypervisors to be_
↪discovered...\"
 sleep $SLEEP
fi
done

```

- `bootstrap.wait_for_computes.wait_percentage`
  - Type: int
  - Description:
  - *70*
- `ceph_client.configmap`
  - Type: string
  - Description:
  - *ceph-etc*
- `ceph_client.user_secret_name`
  - Type: string
  - Description:
  - *pvc-ceph-client-key*
- `conf.api_audit_map.DEFAULT.target_endpoint_type`
  - Type: string
  - Description:
  - *None*

- `conf.api_audit_map.custom_actions.delete`
  - Type: string
  - Description:
    - *delete*
- `conf.api_audit_map.custom_actions.disable`
  - Type: string
  - Description:
    - *disable*
- `conf.api_audit_map.custom_actions.enable`
  - Type: string
  - Description:
    - *enable*
- `conf.api_audit_map.custom_actions.os-migrations/get`
  - Type: string
  - Description:
    - *read*
- `conf.api_audit_map.custom_actions.os-server-password/post`
  - Type: string
  - Description:
    - *update*
- `conf.api_audit_map.custom_actions.reboot`
  - Type: string
  - Description:
    - *start/reboot*
- `conf.api_audit_map.custom_actions.shutdown`
  - Type: string
  - Description:
    - *stop/shutdown*
- `conf.api_audit_map.custom_actions.startup`
  - Type: string
  - Description:
    - *start/startup*
- `conf.api_audit_map.path_keywords.action`
  - Type: string

- Description:
  - *None*
- `conf.api_audit_map.path_keywords.add`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.configure-project`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.defaults`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.delete`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.detail`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.diagnostics`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.disable`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.enable`
  - Type: string
  - Description:
  - *None*

- `conf.api_audit_map.path_keywords.entries`
  - Type: string
  - Description:
    - *entry*
- `conf.api_audit_map.path_keywords.extensions`
  - Type: string
  - Description:
    - *alias*
- `conf.api_audit_map.path_keywords.flavors`
  - Type: string
  - Description:
    - *flavor*
- `conf.api_audit_map.path_keywords.images`
  - Type: string
  - Description:
    - *image*
- `conf.api_audit_map.path_keywords.ips`
  - Type: string
  - Description:
    - *label*
- `conf.api_audit_map.path_keywords.limits`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.path_keywords.metadata`
  - Type: string
  - Description:
    - *key*
- `conf.api_audit_map.path_keywords.os-agents`
  - Type: string
  - Description:
    - *os-agent*
- `conf.api_audit_map.path_keywords.os-aggregates`
  - Type: string

- Description:
  - *os-aggregate*
- `conf.api_audit_map.path_keywords.os-availability-zone`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-certificates`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-cloudpipe`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-extra_specs`
  - Type: string
  - Description:
  - *key*
- `conf.api_audit_map.path_keywords.os-fixed-ips`
  - Type: string
  - Description:
  - *ip*
- `conf.api_audit_map.path_keywords.os-flavor-access`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-floating-ip-dns`
  - Type: string
  - Description:
  - *domain*
- `conf.api_audit_map.path_keywords.os-floating-ip-pools`
  - Type: string
  - Description:
  - *None*

- `conf.api_audit_map.path_keywords.os-floating-ips`
  - Type: string
  - Description:
    - *floating-ip*
- `conf.api_audit_map.path_keywords.os-floating-ips-bulk`
  - Type: string
  - Description:
    - *host*
- `conf.api_audit_map.path_keywords.os-hosts`
  - Type: string
  - Description:
    - *host*
- `conf.api_audit_map.path_keywords.os-hypervisors`
  - Type: string
  - Description:
    - *hypervisor*
- `conf.api_audit_map.path_keywords.os-instance-actions`
  - Type: string
  - Description:
    - *instance-action*
- `conf.api_audit_map.path_keywords.os-keypairs`
  - Type: string
  - Description:
    - *keypair*
- `conf.api_audit_map.path_keywords.os-migrations`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.path_keywords.os-networks`
  - Type: string
  - Description:
    - *network*
- `conf.api_audit_map.path_keywords.os-quota-sets`
  - Type: string

- Description:
  - *tenant*
- `conf.api_audit_map.path_keywords.os-security-group-rules`
  - Type: string
  - Description:
  - *rule*
- `conf.api_audit_map.path_keywords.os-security-groups`
  - Type: string
  - Description:
  - *security\_group*
- `conf.api_audit_map.path_keywords.os-server-password`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-services`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-simple-tenant-usage`
  - Type: string
  - Description:
  - *tenant*
- `conf.api_audit_map.path_keywords.os-snapshots`
  - Type: string
  - Description:
  - *snapshot*
- `conf.api_audit_map.path_keywords.os-virtual-interfaces`
  - Type: string
  - Description:
  - *None*
- `conf.api_audit_map.path_keywords.os-volume-types`
  - Type: string
  - Description:
  - *volume-type*

- `conf.api_audit_map.path_keywords.os-volume_attachments`
  - Type: string
  - Description:
    - *attachment*
- `conf.api_audit_map.path_keywords.os-volumes`
  - Type: string
  - Description:
    - *volume*
- `conf.api_audit_map.path_keywords.os-volumes_boot`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.path_keywords.reboot`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.path_keywords.servers`
  - Type: string
  - Description:
    - *server*
- `conf.api_audit_map.path_keywords.shutdown`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.path_keywords.startup`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.path_keywords.statistics`
  - Type: string
  - Description:
    - *None*
- `conf.api_audit_map.service_endpoints.compute`
  - Type: string



- Description:
  - *service/compute*
- `conf.archive_deleted_rows.all_cells`
  - Type: bool
  - Description:
    - *false*
- `conf.archive_deleted_rows.before.date`
  - Type: string
  - Description:
    - *nil*
- `conf.archive_deleted_rows.before.enabled`
  - Type: bool
  - Description:
    - *false*
- `conf.archive_deleted_rows.max_rows.enabled`
  - Type: bool
  - Description:
    - *false*
- `conf.archive_deleted_rows.max_rows.rows`
  - Type: int
  - Description:
    - *1000*
- `conf.archive_deleted_rows.purge_deleted_rows`
  - Type: bool
  - Description:
    - *false*
- `conf.archive_deleted_rows.until_completion`
  - Type: bool
  - Description:
    - *true*
- `conf.ceph.admin_keyring`
  - Type: string
  - Description:
    - *nil*

- `conf.ceph.cinder.keyring`
  - Type: string
  - Description:
  - *nil*
- `conf.ceph.cinder.secret_uuid`
  - Type: string
  - Description:
  - *457eb676-33da-42ec-9a8c-9293d545c337*
- `conf.ceph.cinder.user`
  - Type: string
  - Description:
  - *cinder*
- `conf.ceph.enabled`
  - Type: bool
  - Description:
  - *true*
- `conf.enable_iscsi`
  - Type: bool
  - Description:
  - *false*
- `conf.hypervisor.address_search_enabled`
  - Type: bool
  - Description:
  - *true*
- `conf.hypervisor.host_interface`
  - Type: string
  - Description:
  - *nil*
- `conf.hypervisor.host_network_cidr`
  - Type: string
  - Description:
  - *0/0*
- `conf.libvirt.address_search_enabled`
  - Type: bool

- Description:
  - *true*
- `conf.libvirt.live_migration_interface`
  - Type: string
  - Description:
  - *nil*
- `conf.libvirt.live_migration_network_cidr`
  - Type: string
  - Description:
  - *0/0*
- `conf.logging.logger_os.brick.handlers[0]`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.logger_os.brick.level`
  - Type: string
  - Description:
  - *INFO*
- `conf.logging.logger_os.brick.qualname`
  - Type: string
  - Description:
  - *os.brick*
- `conf.logging.formatter_context.class`
  - Type: string
  - Description:
  - *oslo\_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
  - Type: string
  - Description:
  - *%Y-%m-%d %H:%M:%S*

- `conf.logging.formatter_default.format`
  - Type: string
  - Description:
    - *%(message)s*
- `conf.logging.formatters.keys[0]`
  - Type: string
  - Description:
    - *context*
- `conf.logging.formatters.keys[1]`
  - Type: string
  - Description:
    - *default*
- `conf.logging.handler_null.args`
  - Type: string
  - Description:
    - *()*
- `conf.logging.handler_null.class`
  - Type: string
  - Description:
    - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
  - Type: string
  - Description:
    - *default*
- `conf.logging.handler_stderr.args`
  - Type: string
  - Description:
    - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
  - Type: string
  - Description:
    - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
  - Type: string

- Description:
- *context*
- `conf.logging.handler_stdout.args`
  - Type: string
  - Description:
  - (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
  - Type: string
  - Description:
  - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
  - Type: string
  - Description:
  - *context*
- `conf.logging.handlers.keys[0]`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.handlers.keys[1]`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.handlers.keys[2]`
  - Type: string
  - Description:
  - *null*
- `conf.logging.logger_amqp.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_amqp.level`
  - Type: string
  - Description:
  - *WARNING*

- `conf.logging.logger_amqp.qualname`
  - Type: string
  - Description:
    - *amqp*
- `conf.logging.logger_amqplib.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_amqplib.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_amqplib.qualname`
  - Type: string
  - Description:
    - *amqplib*
- `conf.logging.logger_boto.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_boto.level`
  - Type: string
  - Description:
    - *WARNING*
- `conf.logging.logger_boto.qualname`
  - Type: string
  - Description:
    - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
  - Type: string
  - Description:
    - *stderr*
- `conf.logging.logger_eventletwsgi.level`
  - Type: string

- Description:
  - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
  - Type: string
  - Description:
  - *eventlet.wsgi.server*
- `conf.logging.logger_nova.handlers[0]`
  - Type: string
  - Description:
  - *stdout*
- `conf.logging.logger_nova.level`
  - Type: string
  - Description:
  - *INFO*
- `conf.logging.logger_nova.qualname`
  - Type: string
  - Description:
  - *nova*
- `conf.logging.logger_root.handlers`
  - Type: string
  - Description:
  - *null*
- `conf.logging.logger_root.level`
  - Type: string
  - Description:
  - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
  - Type: string
  - Description:
  - *stderr*
- `conf.logging.logger_sqlalchemy.level`
  - Type: string
  - Description:
  - *WARNING*

- `conf.logging.logger_sqlalchemy.qualname`
  - Type: string
  - Description:
    - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
  - Type: string
  - Description:
    - *root*
- `conf.logging.loggers.keys[1]`
  - Type: string
  - Description:
    - *nova*
- `conf.logging.loggers.keys[2]`
  - Type: string
  - Description:
    - *os.brick*
- `conf.nova.DEFAULT.compute_driver`
  - Type: string
  - Description:
    - *libvirt.LibvirtDriver*
- `conf.nova.DEFAULT.cpu_allocation_ratio`
  - Type: float
  - Description:
    - *3*
- `conf.nova.DEFAULT.default_ephemeral_format`
  - Type: string
  - Description:
    - *ext4*
- `conf.nova.DEFAULT.disk_allocation_ratio`
  - Type: float
  - Description:
    - *1*
- `conf.nova.DEFAULT.instance_usage_audit`
  - Type: bool



- Description:
- *true*
- `conf.nova.DEFAULT.instance_usage_audit_period`
  - Type: string
  - Description:
  - *hour*
- `conf.nova.DEFAULT.log_config_append`
  - Type: string
  - Description:
  - */etc/nova/logging.conf*
- `conf.nova.DEFAULT.metadata_workers`
  - Type: int
  - Description:
  - *1*
- `conf.nova.DEFAULT.my_ip`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.nova.DEFAULT.osapi_compute_listen`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.nova.DEFAULT.osapi_compute_listen_port`
  - Type: string
  - Description:
  - *nil*
- `conf.nova.DEFAULT.osapi_compute_workers`
  - Type: int
  - Description:
  - *1*
- `conf.nova.DEFAULT.ram_allocation_ratio`
  - Type: float
  - Description:
  - *1*

- `conf.nova.DEFAULT.resume_guests_state_on_host_boot`
  - Type: `bool`
  - Description:
    - `true`
- `conf.nova.DEFAULT.state_path`
  - Type: `string`
  - Description:
    - `/var/lib/nova`
- `conf.nova.api_database.max_retries`
  - Type: `int`
  - Description:
    - `-1`
- `conf.nova.cache.backend`
  - Type: `string`
  - Description:
    - `dogpile.cache.memcached`
- `conf.nova.cache.enabled`
  - Type: `bool`
  - Description:
    - `true`
- `conf.nova.cell0_database.max_retries`
  - Type: `int`
  - Description:
    - `-1`
- `conf.nova.cinder.catalog_info`
  - Type: `string`
  - Description:
    - `volume3::internalURL`
- `conf.nova.conductor.workers`
  - Type: `int`
  - Description:
    - `1`
- `conf.nova.database.max_retries`
  - Type: `int`

- Description:
  - *-1*
- conf.nova.glance.num\_retries
  - Type: int
  - Description:
  - *3*
- conf.nova.ironic.api\_endpoint
  - Type: string
  - Description:
  - *nil*
- conf.nova.ironic.auth\_url
  - Type: string
  - Description:
  - *nil*
- conf.nova.keystone\_authtoken.auth\_type
  - Type: string
  - Description:
  - *password*
- conf.nova.keystone\_authtoken.auth\_version
  - Type: string
  - Description:
  - *v3*
- conf.nova.keystone\_authtoken.memcache\_security\_strategy
  - Type: string
  - Description:
  - *ENCRYPT*
- conf.nova.keystone\_authtoken.service\_token\_roles
  - Type: string
  - Description:
  - *service*
- conf.nova.keystone\_authtoken.service\_token\_roles\_required
  - Type: bool
  - Description:
  - *true*

- `conf.nova.keystone_authtoken.service_type`
  - Type: string
  - Description:
    - *compute*
- `conf.nova.libvirt.connection_uri`
  - Type: string
  - Description:
    - *qemu+unix:///system?socket=/run/libvirt/libvirt-sock*
- `conf.nova.libvirt.disk_cachemodes`
  - Type: string
  - Description:
    - *network=writeback*
- `conf.nova.libvirt.hw_disk_discard`
  - Type: string
  - Description:
    - *unmap*
- `conf.nova.libvirt.images_rbd_ceph_conf`
  - Type: string
  - Description:
    - */etc/ceph/ceph.conf*
- `conf.nova.libvirt.images_rbd_pool`
  - Type: string
  - Description:
    - *vms*
- `conf.nova.libvirt.images_type`
  - Type: string
  - Description:
    - *qcow2*
- `conf.nova.libvirt.rbd_secret_uuid`
  - Type: string
  - Description:
    - *457eb676-33da-42ec-9a8c-9293d545c337*
- `conf.nova.libvirt.rbd_user`
  - Type: string

- Description:
  - *cinder*
- `conf.nova.neutron.auth_type`
  - Type: string
  - Description:
  - *password*
- `conf.nova.neutron.auth_version`
  - Type: string
  - Description:
  - *v3*
- `conf.nova.neutron.metadata_proxy_shared_secret`
  - Type: string
  - Description:
  - *password*
- `conf.nova.neutron.service_metadata_proxy`
  - Type: bool
  - Description:
  - *true*
- `conf.nova.notifications.notify_on_state_change`
  - Type: string
  - Description:
  - *vm\_and\_task\_state*
- `conf.nova.oslo_concurrency.lock_path`
  - Type: string
  - Description:
  - */var/lib/nova/tmp*
- `conf.nova.oslo_messaging_notifications.driver`
  - Type: string
  - Description:
  - *messagingv2*
- `conf.nova.oslo_messaging_rabbit.rabbit_ha_queues`
  - Type: bool
  - Description:
  - *true*

- `conf.nova.oslo_middleware.enable_proxy_headers_parsing`
  - Type: `bool`
  - Description:
    - *true*
- `conf.nova.oslo_policy.policy_file`
  - Type: `string`
  - Description:
    - */etc/nova/policy.yaml*
- `conf.nova.placement.auth_type`
  - Type: `string`
  - Description:
    - *password*
- `conf.nova.placement.auth_version`
  - Type: `string`
  - Description:
    - *v3*
- `conf.nova.scheduler.discover_hosts_in_cells_interval`
  - Type: `int`
  - Description:
    - *-1*
- `conf.nova.scheduler.max_attempts`
  - Type: `int`
  - Description:
    - *10*
- `conf.nova.scheduler.workers`
  - Type: `int`
  - Description:
    - *1*
- `conf.nova.serial_console.serialproxy_host`
  - Type: `string`
  - Description:
    - *0.0.0.0*
- `conf.nova.service_user.auth_type`
  - Type: `string`

- Description:
- *password*
- `conf.nova.service_user.send_service_user_token`
  - Type: bool
  - Description:
  - *true*
- `conf.nova.spice.html5proxy_host`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.nova.spice.server_listen`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.nova.upgrade_levels.compute`
  - Type: string
  - Description:
  - *auto*
- `conf.nova.vnc.auth_schemes`
  - Type: string
  - Description:
  - *none*
- `conf.nova.vnc.novncproxy_host`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.nova.vnc.server_listen`
  - Type: string
  - Description:
  - *0.0.0.0*
- `conf.nova.wsgi.api_paste_config`
  - Type: string
  - Description:
  - */etc/nova/api-paste.ini*

- `conf.nova_api_uwsgi.uwsgi.add-header`
  - Type: string
  - Description:
  - *Connection: close*
- `conf.nova_api_uwsgi.uwsgi.buffer-size`
  - Type: int
  - Description:
  - *65535*
- `conf.nova_api_uwsgi.uwsgi.die-on-term`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_api_uwsgi.uwsgi.enable-threads`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_api_uwsgi.uwsgi.exit-on-reload`
  - Type: bool
  - Description:
  - *false*
- `conf.nova_api_uwsgi.uwsgi.hook-master-start`
  - Type: string
  - Description:
  - *unix\_signal:15 gracefully\_kill\_them\_all*
- `conf.nova_api_uwsgi.uwsgi.lazy-apps`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_api_uwsgi.uwsgi.log-x-forwarded-for`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_api_uwsgi.uwsgi.master`
  - Type: bool



- Description:
- *true*
- `conf.nova_api_uwsgi.uwsgi.procname-prefix-spaced`
  - Type: string
  - Description:
  - *nova-api:*
- `conf.nova_api_uwsgi.uwsgi.route-user-agent`
  - Type: string
  - Description:
  - *^kubernetes-probe.\* donotlog:*
- `conf.nova_api_uwsgi.uwsgi.thunder-lock`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_api_uwsgi.uwsgi.worker-reload-mercy`
  - Type: int
  - Description:
  - *80*
- `conf.nova_api_uwsgi.uwsgi.wsgi-file`
  - Type: string
  - Description:
  - */var/lib/openstack/bin/nova-api-wsgi*
- `conf.nova_compute_redactions[0]`
  - Type: string
  - Description:
  - *database*
- `conf.nova_compute_redactions[1]`
  - Type: string
  - Description:
  - *api\_database*
- `conf.nova_compute_redactions[2]`
  - Type: string
  - Description:
  - *cello\_database*

- `conf.nova_ironic.DEFAULT.compute_driver`
  - Type: string
  - Description:
    - *ironic.IronicDriver*
- `conf.nova_ironic.DEFAULT.cpu_allocation_ratio`
  - Type: float
  - Description:
    - *1*
- `conf.nova_ironic.DEFAULT.ram_allocation_ratio`
  - Type: float
  - Description:
    - *1*
- `conf.nova_ironic.DEFAULT.reserved_host_memory_mb`
  - Type: int
  - Description:
    - *0*
- `conf.nova_ironic.DEFAULT.scheduler_host_manager`
  - Type: string
  - Description:
    - *ironic\_host\_manager*
- `conf.nova_metadata_uwsgi.uwsgi.add-header`
  - Type: string
  - Description:
    - *Connection: close*
- `conf.nova_metadata_uwsgi.uwsgi.buffer-size`
  - Type: int
  - Description:
    - *65535*
- `conf.nova_metadata_uwsgi.uwsgi.die-on-term`
  - Type: bool
  - Description:
    - *true*
- `conf.nova_metadata_uwsgi.uwsgi.enable-threads`
  - Type: bool

- Description:
  - *true*
- `conf.nova_metadata_uwsgi.uwsgi.exit-on-reload`
  - Type: bool
  - Description:
  - *false*
- `conf.nova_metadata_uwsgi.uwsgi.hook-master-start`
  - Type: string
  - Description:
  - *unix\_signal:15 gracefully\_kill\_them\_all*
- `conf.nova_metadata_uwsgi.uwsgi.lazy-apps`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_metadata_uwsgi.uwsgi.log-x-forwarded-for`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_metadata_uwsgi.uwsgi.master`
  - Type: bool
  - Description:
  - *true*
- `conf.nova_metadata_uwsgi.uwsgi.procname-prefix-spaced`
  - Type: string
  - Description:
  - *nova-metadata:*
- `conf.nova_metadata_uwsgi.uwsgi.route-user-agent`
  - Type: string
  - Description:
  - *^kube-probe.\* donotlog:*
- `conf.nova_metadata_uwsgi.uwsgi.thunder-lock`
  - Type: bool
  - Description:
  - *true*

- `conf.nova_metadata_uwsgi.uwsgi.worker-reload-mercy`
  - Type: int
  - Description:
  - `80`
- `conf.nova_metadata_uwsgi.uwsgi.wsgi-file`
  - Type: string
  - Description:
  - `/var/lib/openstack/bin/nova-metadata-wsgi`
- `conf.nova_sudoers`
  - Type: string
  - Description:

```
This sudoers file supports rootwrap for both Kolla and LOCI Images.
Defaults !requiretty
Defaults secure_path=\"/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/
↪bin:/sbin:/bin:/snap/bin:/var/lib/openstack/bin:/var/lib/kolla/
↪venv/bin\"
nova ALL = (root) NOPASSWD: /var/lib/kolla/venv/bin/nova-rootwrap /
↪etc/nova/rootwrap.conf *, /var/lib/openstack/bin/nova-rootwrap /
↪etc/nova/rootwrap.conf *
```
- `conf.paste.app:metaapp.paste.app_factory`
  - Type: string
  - Description:
  - `nova.api.metadata.handler:MetadataRequestHandler.factory`
- `conf.paste.app:osapi_compute_app_v21.paste.app_factory`
  - Type: string
  - Description:
  - `nova.api.openstack.compute:APIRouterV21.factory`
- `conf.paste.app:oscomputeversionapp.paste.app_factory`
  - Type: string
  - Description:
  - `nova.api.openstack.compute.versions:Versions.factory`
- `conf.paste.composite:metadata./`
  - Type: string
  - Description:
  - `meta`
- `conf.paste.composite:metadata.use`

- Type: string
- Description:
- *egg:Paste#urlmap*
- `conf.paste.composite:openstack_compute_api_v21.keystone`
  - Type: string
  - Description:
  - *cors http\_proxy\_to\_wsgi compute\_req\_id faultwrap sizelimit authtoken audit keystonecontext osapi\_compute\_app\_v21*
- `conf.paste.composite:openstack_compute_api_v21.noauth2`
  - Type: string
  - Description:
  - *cors http\_proxy\_to\_wsgi compute\_req\_id faultwrap sizelimit noauth2 osapi\_compute\_app\_v21*
- `conf.paste.composite:openstack_compute_api_v21.use`
  - Type: string
  - Description:
  - *call:nova.api.auth:pipeline\_factory\_v21*
- `conf.paste.composite:openstack_compute_api_v21_legacy_v2_compatible.keystone`
  - Type: string
  - Description:
  - *cors http\_proxy\_to\_wsgi compute\_req\_id faultwrap sizelimit authtoken audit keystonecontext legacy\_v2\_compatible osapi\_compute\_app\_v21*
- `conf.paste.composite:openstack_compute_api_v21_legacy_v2_compatible.noauth2`
  - Type: string
  - Description:
  - *cors http\_proxy\_to\_wsgi compute\_req\_id faultwrap sizelimit noauth2 legacy\_v2\_compatible osapi\_compute\_app\_v21*
- `conf.paste.composite:openstack_compute_api_v21_legacy_v2_compatible.use`
  - Type: string
  - Description:
  - *call:nova.api.auth:pipeline\_factory\_v21*
- `conf.paste.composite:osapi_compute./v2.1`
  - Type: string
  - Description:
  - *openstack\_compute\_api\_v21*
- `conf.paste.composite:osapi_compute./`

- Type: string
  - Description:
    - *oscomputeversions*
- conf.paste.composite:osapi\_compute./v2
  - Type: string
  - Description:
    - *openstack\_compute\_api\_v21\_legacy\_v2\_compatible*
- conf.paste.composite:osapi\_compute.use
  - Type: string
  - Description:
    - *call:nova.api.openstack.urlmap:urlmap\_factory*
- conf.paste.filter:audit.paste.filter\_factory
  - Type: string
  - Description:
    - *keystonemiddleware.audit.filter\_factory*
- conf.paste.filter:audit.audit\_map\_file
  - Type: string
  - Description:
    - */etc/nova/api\_audit\_map.conf*
- conf.paste.filter:authtoken.paste.filter\_factory
  - Type: string
  - Description:
    - *keystonemiddleware.auth\_token:filter\_factory*
- conf.paste.filter:compute\_req\_id.paste.filter\_factory
  - Type: string
  - Description:
    - *nova.api.compute\_req\_id:ComputeReqIdMiddleware.factory*
- conf.paste.filter:cors.paste.filter\_factory
  - Type: string
  - Description:
    - *oslo\_middleware.cors:filter\_factory*
- conf.paste.filter:cors.oslo\_config\_project
  - Type: string
  - Description:

- *nova*
- `conf.paste.filter:faultwrap.paste.filter_factory`
  - Type: string
  - Description:
    - *nova.api.openstack:FaultWrapper.factory*
- `conf.paste.filter:http_proxy_to_wsgi.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware.http\_proxy\_to\_wsgi:HTTPProxyToWSGI.factory*
- `conf.paste.filter:keystonecontext.paste.filter_factory`
  - Type: string
  - Description:
    - *nova.api.auth:NovaKeystoneContext.factory*
- `conf.paste.filter:legacy_v2_compatible.paste.filter_factory`
  - Type: string
  - Description:
    - *nova.api.openstack:LegacyV2CompatibleWrapper.factory*
- `conf.paste.filter:noauth2.paste.filter_factory`
  - Type: string
  - Description:
    - *nova.api.openstack.auth:NoAuthMiddleware.factory*
- `conf.paste.filter:request_id.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware:RequestId.factory*
- `conf.paste.filter:sizelimit.paste.filter_factory`
  - Type: string
  - Description:
    - *oslo\_middleware:RequestBodySizeLimiter.factory*
- `conf.paste.pipeline:meta.pipeline`
  - Type: string
  - Description:
    - *cors metaapp*
- `conf.paste.pipeline:oscomputeversions.pipeline`

- Type: string
  - Description:
    - *faultwrap http\_proxy\_to\_wsgi oscomputeversionapp*
- `conf.policy`
  - Type: object
  - Description:
    - *{}*
- `conf.rabbitmq.policies[0].apply-to`
  - Type: string
  - Description:
    - *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`
  - Type: string
  - Description:
    - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
  - Type: string
  - Description:
    - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
  - Type: int
  - Description:
    - *70000*
- `conf.rabbitmq.policies[0].name`
  - Type: string
  - Description:
    - *ha\_ttl\_nova*
- `conf.rabbitmq.policies[0].pattern`
  - Type: string
  - Description:
    - *^(?!(amq\|reply\_)).\**
- `conf.rabbitmq.policies[0].priority`
  - Type: int
  - Description:



- 0
- conf.rabbitmq.policies[0].vhost
  - Type: string
  - Description:
  - *nova*
- conf.rally\_tests.clean\_up
  - Type: string
  - Description:

```

FLAVORS=$(openstack flavor list -f value --all | awk '$2 ~ /^s_rally_
↪/ { print $1 }')
if [-n "$FLAVORS"]; then
 echo $FLAVORS | xargs openstack flavor delete
fi
SERVERS=$(openstack server list -f value --all | awk '$2 ~ /^s_rally_
↪/ { print $1 }')
if [-n "$SERVERS"]; then
 echo $SERVERS | xargs openstack server delete
fi
IMAGES=$(openstack image list -f value | awk '$2 ~ /^c_rally_/ {
↪print $1 }')
if [-n "$IMAGES"]; then
 echo $IMAGES | xargs openstack image delete
fi

```
- conf.rally\_tests.run\_tempest
  - Type: bool
  - Description:
  - *false*
- conf.rally\_tests.tests.NovaAggregates.create\_and\_get\_aggregate\_details[0].args.availability\_zone
  - Type: string
  - Description:
  - *nova*
- conf.rally\_tests.tests.NovaAggregates.create\_and\_get\_aggregate\_details[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaAggregates.create\_and\_get\_aggregate\_details[0].runner.times
  - Type: int
  - Description:

- 1
- conf.rally\_tests.tests.NovaAggregates.create\_and\_get\_aggregate\_details[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaAggregates.create\_and\_get\_aggregate\_details[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - 0
- conf.rally\_tests.tests.NovaAggregates.create\_and\_update\_aggregate[0].args.availability\_zone
  - Type: string
  - Description:
  - *nova*
- conf.rally\_tests.tests.NovaAggregates.create\_and\_update\_aggregate[0].runner.concurrency
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NovaAggregates.create\_and\_update\_aggregate[0].runner.times
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NovaAggregates.create\_and\_update\_aggregate[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaAggregates.create\_and\_update\_aggregate[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - 0
- conf.rally\_tests.tests.NovaAggregates.list\_aggregates[0].runner.concurrency
  - Type: int
  - Description:
  - 1
- conf.rally\_tests.tests.NovaAggregates.list\_aggregates[0].runner.times

- Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaAggregates.list\_aggregates[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaAggregates.list\_aggregates[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaAvailabilityZones.list\_availability\_zones[0].args.detailed
  - Type: bool
  - Description:
  - *true*
- conf.rally\_tests.tests.NovaAvailabilityZones.list\_availability\_zones[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaAvailabilityZones.list\_availability\_zones[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaAvailabilityZones.list\_availability\_zones[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaAvailabilityZones.list\_availability\_zones[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaFlavors.create\_and\_delete\_flavor[0].args.disk
  - Type: int
  - Description:

- *1*
- `conf.rally_tests.tests.NovaFlavors.create_and_delete_flavor[0].args.ram`
  - Type: int
  - Description:
  - *500*
- `conf.rally_tests.tests.NovaFlavors.create_and_delete_flavor[0].args.vcpus`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NovaFlavors.create_and_delete_flavor[0].runner.concurrency`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NovaFlavors.create_and_delete_flavor[0].runner.times`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NovaFlavors.create_and_delete_flavor[0].runner.type`
  - Type: string
  - Description:
  - *constant*
- `conf.rally_tests.tests.NovaFlavors.create_and_delete_flavor[0].sla.failure_rate.max`
  - Type: int
  - Description:
  - *0*
- `conf.rally_tests.tests.NovaFlavors.create_and_list_flavor_access[0].args.disk`
  - Type: int
  - Description:
  - *1*
- `conf.rally_tests.tests.NovaFlavors.create_and_list_flavor_access[0].args.ram`
  - Type: int
  - Description:
  - *500*
- `conf.rally_tests.tests.NovaFlavors.create_and_list_flavor_access[0].args.vcpus`

- Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_and\_list\_flavor\_access[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_and\_list\_flavor\_access[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_and\_list\_flavor\_access[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaFlavors.create\_and\_list\_flavor\_access[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].args.disk
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].args.ram
  - Type: int
  - Description:
  - *500*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].args.vcpus
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].runner.concurrency
  - Type: int
  - Description:

- *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].runner.times
  - Type: int
  - Description:
    - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].runner.type
  - Type: string
  - Description:
    - *constant*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor[0].sla.failure\_rate.max
  - Type: int
  - Description:
    - *0*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].args.disk
  - Type: int
  - Description:
    - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].args.ram
  - Type: int
  - Description:
    - *500*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].args.vcpus
  - Type: int
  - Description:
    - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].runner.concurrency
  - Type: int
  - Description:
    - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].runner.times
  - Type: int
  - Description:
    - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].runner.type

- Type: string
- Description:
- *constant*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_add\_tenant\_access[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].args.disk
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].args.extra\_specs.quota:disk\_read\_bytes\_sec
  - Type: int
  - Description:
  - *10240*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].args.ram
  - Type: int
  - Description:
  - *500*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].args.vcpus
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].runner.type
  - Type: string
  - Description:

- *constant*
- conf.rally\_tests.tests.NovaFlavors.create\_flavor\_and\_set\_keys[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaFlavors.list\_flavors[0].args.detailed
  - Type: bool
  - Description:
  - *true*
- conf.rally\_tests.tests.NovaFlavors.list\_flavors[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.list\_flavors[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaFlavors.list\_flavors[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaFlavors.list\_flavors[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_hypervisors[0].args.detailed
  - Type: bool
  - Description:
  - *true*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_hypervisors[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_hypervisors[0].runner.times



- Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_hypervisors[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_hypervisors[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_uptime\_hypervisors[0].args.detailed
  - Type: bool
  - Description:
  - *true*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_uptime\_hypervisors[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_uptime\_hypervisors[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_uptime\_hypervisors[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_get\_uptime\_hypervisors[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_search\_hypervisors[0].args.detailed
  - Type: bool
  - Description:

- *true*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_search\_hypervisors[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_search\_hypervisors[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_search\_hypervisors[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaHypervisors.list\_and\_search\_hypervisors[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaHypervisors.list\_hypervisors[0].args.detailed
  - Type: bool
  - Description:
  - *true*
- conf.rally\_tests.tests.NovaHypervisors.list\_hypervisors[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_hypervisors[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.list\_hypervisors[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaHypervisors.list\_hypervisors[0].sla.failure\_rate.max

- Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaHypervisors.statistics\_hypervisors[0].args
  - Type: object
  - Description:
  - *{}*
- conf.rally\_tests.tests.NovaHypervisors.statistics\_hypervisors[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.statistics\_hypervisors[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaHypervisors.statistics\_hypervisors[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaHypervisors.statistics\_hypervisors[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_delete\_keypair[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_delete\_keypair[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_delete\_keypair[0].runner.type
  - Type: string
  - Description:

- *constant*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_delete\_keypair[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_list\_keypairs[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_list\_keypairs[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_list\_keypairs[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaKeypair.create\_and\_list\_keypairs[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaServerGroups.create\_and\_list\_server\_groups[0].args.all\_projects
  - Type: bool
  - Description:
  - *false*
- conf.rally\_tests.tests.NovaServerGroups.create\_and\_list\_server\_groups[0].args.kwargs.policies[0]
  - Type: string
  - Description:
  - *affinity*
- conf.rally\_tests.tests.NovaServerGroups.create\_and\_list\_server\_groups[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaServerGroups.create\_and\_list\_server\_groups[0].runner.times

- Type: int
- Description:
- *1*
- conf.rally\_tests.tests.NovaServerGroups.create\_and\_list\_server\_groups[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaServerGroups.create\_and\_list\_server\_groups[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rally\_tests.tests.NovaServices.list\_services[0].runner.concurrency
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaServices.list\_services[0].runner.times
  - Type: int
  - Description:
  - *1*
- conf.rally\_tests.tests.NovaServices.list\_services[0].runner.type
  - Type: string
  - Description:
  - *constant*
- conf.rally\_tests.tests.NovaServices.list\_services[0].sla.failure\_rate.max
  - Type: int
  - Description:
  - *0*
- conf.rootwrap
  - Type: string
  - Description:

```
Configuration for nova-rootwrap
This file should be owned by (and only-writeable by) the root user

[DEFAULT]
List of directories to load filter definitions from (separated by ',
```

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```

↪').
These directories MUST all be only writeable by root !
filters_path=/etc/nova/rootwrap.d,/usr/share/nova/rootwrap

List of directories to search executables in, in case filters do
↪not
explicitly specify a full path (separated by ',')
If not specified, defaults to system PATH environment variable.
These directories MUST all be only writeable by root !
exec_dirs=/sbin,/usr/sbin,/bin,/usr/bin,/usr/local/bin,/usr/local/
↪sbin,/var/lib/openstack/bin,/var/lib/kolla/venv/bin

Enable logging to syslog
Default value is False
use_syslog=False

Which syslog facility to use.
Valid values include auth, authpriv, syslog, local0, local1...
Default value is 'syslog'
syslog_log_facility=syslog

Which messages to log.
INFO means log all usage
ERROR means only log unsuccessful attempts
syslog_log_level=ERROR

```

- `conf.rootwrap_filters.api_metadata.content`

- Type: string
- Description:

```

- # nova-rootwrap command filters for api-metadata nodes
This is needed on nova-api hosts running with "metadata" in
↪enabled_apis
or when running nova-api-metadata
This file should be owned by (and only-writeable by) the root user

[Filters]
nova/network/linux_net.py: 'ip[6]tables-save' % (cmd, '-t', ...
iptables-save: CommandFilter, iptables-save, root
ip6tables-save: CommandFilter, ip6tables-save, root

nova/network/linux_net.py: 'ip[6]tables-restore' % (cmd,)
iptables-restore: CommandFilter, iptables-restore, root
ip6tables-restore: CommandFilter, ip6tables-restore, root

```

- `conf.rootwrap_filters.api_metadata.pods[0]`

- Type: string
- Description:

- *metadata*
- `conf.rootwrap_filters.compute.content`
  - Type: string
  - Description:

```

- # nova-rootwrap command filters for compute nodes
This file should be owned by (and only-writeable by) the root user

[Filters]
nova/virt/disk/mount/api.py: 'kpartx', '-a', device
nova/virt/disk/mount/api.py: 'kpartx', '-d', device
kpartx: CommandFilter, kpartx, root

nova/virt/xenapi/vm_utils.py: tune2fs, -O ^has_journal, part_path
nova/virt/xenapi/vm_utils.py: tune2fs, -j, partition_path
tune2fs: CommandFilter, tune2fs, root

nova/virt/disk/mount/api.py: 'mount', mapped_device
nova/virt/disk/api.py: 'mount', '-o', 'bind', src, target
nova/virt/xenapi/vm_utils.py: 'mount', '-t', 'ext2,ext3,ext4,
↪ reiserfs'..
nova/virt/configdrive.py: 'mount', device, mountdir
nova/virt/libvirt/volume.py: 'mount', '-t', 'sofs' ...
mount: CommandFilter, mount, root

nova/virt/disk/mount/api.py: 'umount', mapped_device
nova/virt/disk/api.py: 'umount' target
nova/virt/xenapi/vm_utils.py: 'umount', dev_path
nova/virt/configdrive.py: 'umount', mountdir
umount: CommandFilter, umount, root

nova/virt/disk/mount/nbd.py: 'qemu-nbd', '-c', device, image
nova/virt/disk/mount/nbd.py: 'qemu-nbd', '-d', device
qemu-nbd: CommandFilter, qemu-nbd, root

nova/virt/disk/mount/loop.py: 'losetup', '--find', '--show', image
nova/virt/disk/mount/loop.py: 'losetup', '--detach', device
losetup: CommandFilter, losetup, root

nova/virt/disk/vfs/localfs.py: 'blkid', '-o', 'value', '-s', 'TYPE
↪ ', device
blkid: CommandFilter, blkid, root

nova/virt/libvirt/utils.py: 'blockdev', '--getsize64', path
nova/virt/disk/mount/nbd.py: 'blockdev', '--flushbufs', device
blockdev: RegExpFilter, blockdev, root, blockdev, (--getsize64|--
↪ flushbufs), /dev/*

nova/virt/disk/vfs/localfs.py: 'tee', canonpath

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```

tee: CommandFilter, tee, root

nova/virt/disk/vfs/localfs.py: 'mkdir', canonpath
mkdir: CommandFilter, mkdir, root

nova/virt/disk/vfs/localfs.py: 'chown'
nova/virt/libvirt/connection.py: 'chown', os.getuid(console_log
nova/virt/libvirt/connection.py: 'chown', os.getuid(console_log
nova/virt/libvirt/connection.py: 'chown', 'root', basepath('disk')
chown: CommandFilter, chown, root

nova/virt/disk/vfs/localfs.py: 'chmod'
chmod: CommandFilter, chmod, root

nova/virt/libvirt/vif.py: 'ip', 'tuntap', 'add', dev, 'mode', 'tap'
nova/virt/libvirt/vif.py: 'ip', 'link', 'set', dev, 'up'
nova/virt/libvirt/vif.py: 'ip', 'link', 'delete', dev
nova/network/linux_net.py: 'ip', 'addr', 'add', str(floating_ip)+'/'
↪32'i..
nova/network/linux_net.py: 'ip', 'addr', 'del', str(floating_ip)+'/'
↪32'..
nova/network/linux_net.py: 'ip', 'addr', 'add', '169.254.169.254/32
↪',...
nova/network/linux_net.py: 'ip', 'addr', 'show', 'dev', dev, 'scope
↪',...
nova/network/linux_net.py: 'ip', 'addr', 'del/add', ip_params, dev)
nova/network/linux_net.py: 'ip', 'addr', 'del', params, fields[-1]
nova/network/linux_net.py: 'ip', 'addr', 'add', params, bridge
nova/network/linux_net.py: 'ip', '-f', 'inet6', 'addr', 'change', .
↪.
nova/network/linux_net.py: 'ip', 'link', 'set', 'dev', dev,
↪'promisc',...
nova/network/linux_net.py: 'ip', 'link', 'add', 'link', bridge_if .
↪...
nova/network/linux_net.py: 'ip', 'link', 'set', interface, address,
↪...
nova/network/linux_net.py: 'ip', 'link', 'set', interface, 'up'
nova/network/linux_net.py: 'ip', 'link', 'set', bridge, 'up'
nova/network/linux_net.py: 'ip', 'addr', 'show', 'dev', interface,
↪...
nova/network/linux_net.py: 'ip', 'link', 'set', dev, address, ..
nova/network/linux_net.py: 'ip', 'link', 'set', dev, 'up'
nova/network/linux_net.py: 'ip', 'route', 'add', ..
nova/network/linux_net.py: 'ip', 'route', 'del', .
nova/network/linux_net.py: 'ip', 'route', 'show', 'dev', dev
ip: CommandFilter, ip, root

nova/virt/libvirt/vif.py: 'tunctl', '-b', '-t', dev
nova/network/linux_net.py: 'tunctl', '-b', '-t', dev

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```
tunctl: CommandFilter, tunctl, root

nova/virt/libvirt/vif.py: 'ovs-vsctl', ...
nova/virt/libvirt/vif.py: 'ovs-vsctl', 'del-port', ...
nova/network/linux_net.py: 'ovs-vsctl',
ovs-vsctl: CommandFilter, ovs-vsctl, root

nova/virt/libvirt/vif.py: 'vrouter-port-control', ...
vrouter-port-control: CommandFilter, vrouter-port-control, root

nova/virt/libvirt/vif.py: 'ebrctl', ...
ebrctl: CommandFilter, ebrctl, root

nova/virt/libvirt/vif.py: 'mm-ctl', ...
mm-ctl: CommandFilter, mm-ctl, root

nova/network/linux_net.py: 'ovs-ofctl',
ovs-ofctl: CommandFilter, ovs-ofctl, root

nova/virt/libvirt/connection.py: 'dd', if=%s % virsh_output, ...
dd: CommandFilter, dd, root

nova/virt/xenapi/volume_utils.py: 'iscsiadm', '-m', ...
iscsiadm: CommandFilter, iscsiadm, root

nova/virt/libvirt/volume/aoe.py: 'aoe-revalidate', aoe dev
nova/virt/libvirt/volume/aoe.py: 'aoe-discover'
aoe-revalidate: CommandFilter, aoe-revalidate, root
aoe-discover: CommandFilter, aoe-discover, root

nova/virt/xenapi/vm_utils.py: parted, --script, ...
nova/virt/xenapi/vm_utils.py: 'parted', '--script', dev_path, ..*.
parted: CommandFilter, parted, root

nova/virt/xenapi/vm_utils.py: 'pygrub', '-qn', dev_path
pygrub: CommandFilter, pygrub, root

nova/virt/xenapi/vm_utils.py: fdisk %(dev_path)s
fdisk: CommandFilter, fdisk, root

nova/virt/xenapi/vm_utils.py: e2fsck, -f, -p, partition_path
nova/virt/disk/api.py: e2fsck, -f, -p, image
e2fsck: CommandFilter, e2fsck, root

nova/virt/xenapi/vm_utils.py: resize2fs, partition_path
nova/virt/disk/api.py: resize2fs, image
resize2fs: CommandFilter, resize2fs, root

nova/network/linux_net.py: 'ip[6]tables-save' % (cmd, '-t', ...
```

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```
iptables-save: CommandFilter, iptables-save, root
ip6tables-save: CommandFilter, ip6tables-save, root

nova/network/linux_net.py: 'ip[6]tables-restore' % (cmd,)
iptables-restore: CommandFilter, iptables-restore, root
ip6tables-restore: CommandFilter, ip6tables-restore, root

nova/network/linux_net.py: 'arping', '-U', floating_ip, '-A', '-I',
↪ ...
nova/network/linux_net.py: 'arping', '-U', network_ref['dhcp_server
↪'],...
arping: CommandFilter, arping, root

nova/network/linux_net.py: 'dhcp_release', dev, address, mac_
↪address
dhcp_release: CommandFilter, dhcp_release, root

nova/network/linux_net.py: 'kill', '-9', pid
nova/network/linux_net.py: 'kill', '-HUP', pid
kill_dnsmasq: KillFilter, root, /usr/sbin/dnsmasq, -9, -HUP

nova/network/linux_net.py: 'kill', pid
kill_radvd: KillFilter, root, /usr/sbin/radvd

nova/network/linux_net.py: dnsmasq call
dnsmasq: EnvFilter, env, root, CONFIG_FILE=, NETWORK_ID=, dnsmasq

nova/network/linux_net.py: 'radvd', '-C', '%s' % _ra_file(dev,
↪'conf'..
radvd: CommandFilter, radvd, root

nova/network/linux_net.py: 'brctl', 'addbr', bridge
nova/network/linux_net.py: 'brctl', 'setfd', bridge, 0
nova/network/linux_net.py: 'brctl', 'stp', bridge, 'off'
nova/network/linux_net.py: 'brctl', 'addif', bridge, interface
brctl: CommandFilter, brctl, root

nova/virt/libvirt/utils.py: 'mkswap'
nova/virt/xenapi/vm_utils.py: 'mkswap'
mkswap: CommandFilter, mkswap, root

nova/virt/libvirt/utils.py: 'nova-idmapshift'
nova-idmapshift: CommandFilter, nova-idmapshift, root

nova/virt/xenapi/vm_utils.py: 'mkfs'
nova/utils.py: 'mkfs', fs, path, label
mkfs: CommandFilter, mkfs, root

nova/virt/libvirt/utils.py: 'qemu-img'
```

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qemu-img: CommandFilter, qemu-img, root

nova/virt/disk/vfs/localfs.py: 'readlink', '-e'
readlink: CommandFilter, readlink, root

nova/virt/disk/api.py:
mkfs.ext3: CommandFilter, mkfs.ext3, root
mkfs.ext4: CommandFilter, mkfs.ext4, root
mkfs.ntfs: CommandFilter, mkfs.ntfs, root

nova/virt/libvirt/connection.py:
lvremove: CommandFilter, lvremove, root

nova/virt/libvirt/utils.py:
lvcreate: CommandFilter, lvcreate, root

nova/virt/libvirt/utils.py:
lvs: CommandFilter, lvs, root

nova/virt/libvirt/utils.py:
vgs: CommandFilter, vgs, root

nova/utils.py:read_file_as_root: 'cat', file_path
(called from nova/virt/disk/vfs/localfs.py:VFSLocalFS.read_file)
read_passwd: RegExpFilter, cat, root, cat, (/var|/usr)?/tmp/
↳openstack-vfs-localfs[^/]+/etc/passwd
read_shadow: RegExpFilter, cat, root, cat, (/var|/usr)?/tmp/
↳openstack-vfs-localfs[^/]+/etc/shadow

os-brick needed commands
read_initiator: ReadFileFilter, /etc/iscsi/initiatorname.iscsi
multipath: CommandFilter, multipath, root
multipathd show status
multipathd: CommandFilter, multipathd, root
systool: CommandFilter, systool, root
vgc-cluster: CommandFilter, vgc-cluster, root
os_brick/initiator/connector.py
drv_cfg: CommandFilter, /opt/emc/scaleio/sdc/bin/drv_cfg, root, /opt/
↳emc/scaleio/sdc/bin/drv_cfg, --query_guid

TODO(smcginnis) Temporary fix.
Need to pull in os-brick os-brick.filters file instead and clean
out stale brick values from this file.
scsi_id: CommandFilter, /lib/udev/scsi_id, root
os_brick.privileged.default oslo.privsep context
This line ties the superuser privs with the config files, context_
↳name,
and (implicitly) the actual python code invoked.
privsep-rootwrap: RegExpFilter, privsep-helper, root, privsep-helper,

```

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↪ --config-file, /etc/(?!\.\.\.)*, --privsep_context, os_brick.
↪ privileged.default, --privsep_sock_path, /tmp/*.

nova/storage/linuxscsi.py: sg_scan device
sg_scan: CommandFilter, sg_scan, root

nova/volume/encryptors/cryptsetup.py:
nova/volume/encryptors/luks.py:
ln: RegExpFilter, ln, root, ln, --symbolic, --force, /dev/mapper/
↪ crypt-.*, .+

nova/volume/encryptors.py:
nova/virt/libvirt/dmccrypt.py:
cryptsetup: CommandFilter, cryptsetup, root

nova/virt/xenapi/vm_utils.py:
xenstore-read: CommandFilter, xenstore-read, root

nova/virt/libvirt/utils.py:
rbd: CommandFilter, rbd, root

nova/virt/libvirt/utils.py: 'shred', '-n3', '-s%d' % volume_size,
↪ path
shred: CommandFilter, shred, root

nova/virt/libvirt/volume.py: 'cp', '/dev/stdin', delete_control..
cp: CommandFilter, cp, root

nova/virt/xenapi/vm_utils.py:
sync: CommandFilter, sync, root

nova/virt/libvirt/imagebackend.py:
ploop: RegExpFilter, ploop, root, ploop, restore-descriptor, .*
prl_disk_tool: RegExpFilter, prl_disk_tool, root, prl_disk_tool,
↪ resize, --size, .*M$, --resize_partition, --hdd, .*

nova/virt/libvirt/utils.py: 'xend', 'status'
xend: CommandFilter, xend, root

nova/virt/libvirt/utils.py:
touch: CommandFilter, touch, root

nova/virt/libvirt/volume/vzstorage.py
pstorage-mount: CommandFilter, pstorage-mount, root

```

- `conf.rootwrap_filters.compute.pods[0]`
  - Type: string
  - Description:
  - *compute*

- `conf.rootwrap_filters.network.content`

- Type: string

- Description:

```

- # nova-rootwrap command filters for network nodes
 # This file should be owned by (and only-writeable by) the root user

 [Filters]
 # nova/virt/libvirt/vif.py: 'ip', 'tuntap', 'add', dev, 'mode', 'tap'
 # nova/virt/libvirt/vif.py: 'ip', 'link', 'set', dev, 'up'
 # nova/virt/libvirt/vif.py: 'ip', 'link', 'delete', dev
 # nova/network/linux_net.py: 'ip', 'addr', 'add', str(floating_ip)+'/32'..
 # nova/network/linux_net.py: 'ip', 'addr', 'del', str(floating_ip)+'/32'..
 # nova/network/linux_net.py: 'ip', 'addr', 'add', '169.254.169.254/32',..
 # nova/network/linux_net.py: 'ip', 'addr', 'show', 'dev', dev, 'scope',..
 # nova/network/linux_net.py: 'ip', 'addr', 'del/add', ip_params, dev)
 # nova/network/linux_net.py: 'ip', 'addr', 'del', params, fields[-1]
 # nova/network/linux_net.py: 'ip', 'addr', 'add', params, bridge
 # nova/network/linux_net.py: 'ip', '-f', 'inet6', 'addr', 'change', ..
 # nova/network/linux_net.py: 'ip', 'link', 'set', 'dev', dev, 'promisc',..
 # nova/network/linux_net.py: 'ip', 'link', 'add', 'link', bridge_if ...
 # nova/network/linux_net.py: 'ip', 'link', 'set', interface, address,..
 # nova/network/linux_net.py: 'ip', 'link', 'set', interface, 'up'
 # nova/network/linux_net.py: 'ip', 'link', 'set', bridge, 'up'
 # nova/network/linux_net.py: 'ip', 'addr', 'show', 'dev', interface, ..
 # nova/network/linux_net.py: 'ip', 'link', 'set', dev, address, ..
 # nova/network/linux_net.py: 'ip', 'link', 'set', dev, 'up'
 # nova/network/linux_net.py: 'ip', 'route', 'add', ..
 # nova/network/linux_net.py: 'ip', 'route', 'del', .
 # nova/network/linux_net.py: 'ip', 'route', 'show', 'dev', dev
 ip: CommandFilter, ip, root

 # nova/virt/libvirt/vif.py: 'ovs-vsctl', ...
 # nova/virt/libvirt/vif.py: 'ovs-vsctl', 'del-port', ...
 # nova/network/linux_net.py: 'ovs-vsctl',
 ovs-vsctl: CommandFilter, ovs-vsctl, root

 # nova/network/linux_net.py: 'ovs-ofctl',
 ovs-ofctl: CommandFilter, ovs-ofctl, root

 # nova/virt/libvirt/vif.py: 'ivs-ctl', ...
 # nova/virt/libvirt/vif.py: 'ivs-ctl', 'del-port', ...
 # nova/network/linux_net.py: 'ivs-ctl',
 ivs-ctl: CommandFilter, ivs-ctl, root

 # nova/virt/libvirt/vif.py: 'ifc_ctl', ...
 ifc_ctl: CommandFilter, /opt/pg/bin/ifc_ctl, root

 # nova/network/linux_net.py: 'ebtables', '-D' ...
 # nova/network/linux_net.py: 'ebtables', '-I' ...

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```

eatables: CommandFilter, eatables, root
eatables_usr: CommandFilter, eatables, root

nova/network/linux_net.py: 'ip[6]tables-save' % (cmd, '-t', ...
iptables-save: CommandFilter, iptables-save, root
ip6tables-save: CommandFilter, ip6tables-save, root

nova/network/linux_net.py: 'ip[6]tables-restore' % (cmd,)
iptables-restore: CommandFilter, iptables-restore, root
ip6tables-restore: CommandFilter, ip6tables-restore, root

nova/network/linux_net.py: 'arping', '-U', floating_ip, '-A', '-I', ...
nova/network/linux_net.py: 'arping', '-U', network_ref['dhcp_server'],.
↪.
arping: CommandFilter, arping, root

nova/network/linux_net.py: 'dhcp_release', dev, address, mac_address
dhcp_release: CommandFilter, dhcp_release, root

nova/network/linux_net.py: 'kill', '-9', pid
nova/network/linux_net.py: 'kill', '-HUP', pid
kill_dnsmasq: KillFilter, root, /usr/sbin/dnsmasq, -9, -HUP

nova/network/linux_net.py: 'kill', pid
kill_radvd: KillFilter, root, /usr/sbin/radvd

nova/network/linux_net.py: dnsmasq call
dnsmasq: EnvFilter, env, root, CONFIG_FILE=, NETWORK_ID=, dnsmasq

nova/network/linux_net.py: 'radvd', '-C', '%s' % _ra_file(dev, 'conf..
radvd: CommandFilter, radvd, root

nova/network/linux_net.py: 'brctl', 'addbr', bridge
nova/network/linux_net.py: 'brctl', 'setfd', bridge, 0
nova/network/linux_net.py: 'brctl', 'stp', bridge, 'off'
nova/network/linux_net.py: 'brctl', 'addif', bridge, interface
brctl: CommandFilter, brctl, root

nova/network/linux_net.py: 'sysctl',
sysctl: CommandFilter, sysctl, root

nova/network/linux_net.py: 'conntrack'
conntrack: CommandFilter, conntrack, root

nova/network/linux_net.py: 'fp-vdev'
fp-vdev: CommandFilter, fp-vdev, root

```

- `conf.rootwrap_filters.network.pods[0]`

- Type: string

- Description:
- *compute*
- *conf.security*
  - Type: string
  - Description:

```

- #
 # Disable access to the entire file system except for the
 # directories that
 # are explicitly allowed later.
 #
 # This currently breaks the configurations that come with some web
 # application
 # Debian packages.
 #
 #<Directory />
 # AllowOverride None
 # Require all denied
 #</Directory>

 # Changing the following options will not really affect the security
 # of the
 # server, but might make attacks slightly more difficult in some
 # cases.

 #
 # ServerTokens
 # This directive configures what you return as the Server HTTP
 # response
 # Header. The default is 'Full' which sends information about the OS-
 # Type
 # and compiled in modules.
 # Set to one of: Full | OS | Minimal | Minor | Major | Prod
 # where Full conveys the most information, and Prod the least.
 ServerTokens Prod

 #
 # Optionally add a line containing the server version and virtual
 # host
 # name to server-generated pages (internal error documents, FTP
 # directory
 # listings, mod_status and mod_info output etc., but not CGI
 # generated
 # documents or custom error documents).
 # Set to \"EMail\" to also include a mailto: link to the ServerAdmin.
 # Set to one of: On | Off | EMail
 ServerSignature Off

 #

```

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```
Allow TRACE method
#
Set to \"extended\" to also reflect the request body (only for
↳testing and
diagnostic purposes).
#
Set to one of: On | Off | extended
TraceEnable Off

#
Forbid access to version control directories
#
If you use version control systems in your document root, you
↳should
probably deny access to their directories. For example, for
↳subversion:
#
#<DirectoryMatch \"/\\.svn\">
Require all denied
#</DirectoryMatch>

#
Setting this header will prevent MSIE from interpreting files as
↳something
else than declared by the content type in the HTTP headers.
Requires mod_headers to be enabled.
#
#Header set X-Content-Type-Options: \"nosniff\"

#
Setting this header will prevent other sites from embedding pages
↳from this
site as frames. This defends against clickjacking attacks.
Requires mod_headers to be enabled.
#
#Header set X-Frame-Options: \"sameorigin\"
```

- `conf.software.apache2.a2dismod`
  - Type: string
  - Description:
  - *nil*
- `conf.software.apache2.a2enmod`
  - Type: string
  - Description:
  - *nil*
- `conf.software.apache2.binary`



- Type: string
  - Description:
    - *apache2*
- conf.software.apache2.conf\_dir
  - Type: string
  - Description:
    - */etc/apache2/conf-enabled*
- conf.software.apache2.mods\_dir
  - Type: string
  - Description:
    - */etc/apache2/mods-available*
- conf.software.apache2.site\_dir
  - Type: string
  - Description:
    - */etc/apache2/sites-enable*
- conf.software.apache2.start\_parameters
  - Type: string
  - Description:
    - *-DFOREGROUND*
- console.address\_search\_enabled
  - Type: bool
  - Description:
    - *true*
- console.console\_kind
  - Type: string
  - Description:
    - *novnc*
- console.novnc.compute.vncserver\_proxycient\_interface
  - Type: string
  - Description:
    - *nil*
- console.novnc.compute.vncserver\_proxycient\_network\_cidr
  - Type: string
  - Description:

- *0/0*
- console.novnc.vncproxy.vncserver\_proxyclient\_interface
  - Type: string
  - Description:
  - *nil*
- console.novnc.vncproxy.vncserver\_proxyclient\_network\_cidr
  - Type: string
  - Description:
  - *0/0*
- console.serial.compute.server\_proxyclient\_interface
  - Type: string
  - Description:
  - *nil*
- console.serial.compute.server\_proxyclient\_network\_cidr
  - Type: string
  - Description:
  - *0/0*
- console.serial.proxy.server\_proxyclient\_interface
  - Type: string
  - Description:
  - *nil*
- console.serial.proxy.server\_proxyclient\_network\_cidr
  - Type: string
  - Description:
  - *0/0*
- console.spice.compute.server\_proxyclient\_interface
  - Type: string
  - Description:
  - *nil*
- console.spice.compute.server\_proxyclient\_network\_cidr
  - Type: string
  - Description:
  - *0/0*
- console.spice.proxy.server\_proxyclient\_interface

- Type: string
  - Description:
  - *nil*
- console.spice.proxy.server\_proxycient\_network\_cidr
  - Type: string
  - Description:
  - *0/0*
- dependencies.dynamic.common.local\_image\_registry.jobs[0]
  - Type: string
  - Description:
  - *nova-image-repo-sync*
- dependencies.dynamic.common.local\_image\_registry.services[0].endpoint
  - Type: string
  - Description:
  - *node*
- dependencies.dynamic.common.local\_image\_registry.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.dynamic.targeted.linuxbridge.compute.pod[0].labels.application
  - Type: string
  - Description:
  - *neutron*
- dependencies.dynamic.targeted.linuxbridge.compute.pod[0].labels.component
  - Type: string
  - Description:
  - *neutron-lb-agent*
- dependencies.dynamic.targeted.linuxbridge.compute.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.dynamic.targeted.openvswitch.compute.pod[0].labels.application
  - Type: string
  - Description:

- *neutron*
- dependencies.dynamic.targeted.openvswitch.compute.pod[0].labels.component
  - Type: string
  - Description:
    - *neutron-ovs-agent*
- dependencies.dynamic.targeted.openvswitch.compute.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *true*
- dependencies.dynamic.targeted.ovn.compute.pod[0].labels.application
  - Type: string
  - Description:
    - *ovn*
- dependencies.dynamic.targeted.ovn.compute.pod[0].labels.component
  - Type: string
  - Description:
    - *ovn-controller*
- dependencies.dynamic.targeted.ovn.compute.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *true*
- dependencies.dynamic.targeted.sriov.compute.pod[0].labels.application
  - Type: string
  - Description:
    - *neutron*
- dependencies.dynamic.targeted.sriov.compute.pod[0].labels.component
  - Type: string
  - Description:
    - *neutron-sriov-agent*
- dependencies.dynamic.targeted.sriov.compute.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *true*
- dependencies.static.api.jobs[0]

- Type: string
  - Description:
    - *nova-db-sync*
- dependencies.static.api.jobs[1]
  - Type: string
  - Description:
    - *nova-ks-user*
- dependencies.static.api.jobs[2]
  - Type: string
  - Description:
    - *nova-ks-endpoints*
- dependencies.static.api.jobs[3]
  - Type: string
  - Description:
    - *nova-rabbit-init*
- dependencies.static.api.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.api.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.api.services[1].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.api.services[2].endpoint
  - Type: string
  - Description:

- *internal*
- dependencies.static.api.services[2].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.api\_metadata.jobs[0]
  - Type: string
  - Description:
  - *nova-db-sync*
- dependencies.static.api\_metadata.jobs[1]
  - Type: string
  - Description:
  - *nova-ks-user*
- dependencies.static.api\_metadata.jobs[2]
  - Type: string
  - Description:
  - *nova-ks-endpoints*
- dependencies.static.api\_metadata.jobs[3]
  - Type: string
  - Description:
  - *nova-rabbit-init*
- dependencies.static.api\_metadata.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.api\_metadata.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.api\_metadata.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.api\_metadata.services[1].service

- Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.api\_metadata.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.api\_metadata.services[2].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.archive\_deleted\_rows.jobs[0]
  - Type: string
  - Description:
  - *nova-db-init*
- dependencies.static.archive\_deleted\_rows.jobs[1]
  - Type: string
  - Description:
  - *nova-db-sync*
- dependencies.static.bootstrap.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.bootstrap.services[0].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.bootstrap.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.bootstrap.services[1].service
  - Type: string
  - Description:

- *compute*
- dependencies.static.cell\_setup.jobs[0]
  - Type: string
  - Description:
    - *nova-db-sync*
- dependencies.static.cell\_setup.jobs[1]
  - Type: string
  - Description:
    - *nova-rabbit-init*
- dependencies.static.cell\_setup.pod[0].labels.application
  - Type: string
  - Description:
    - *nova*
- dependencies.static.cell\_setup.pod[0].labels.component
  - Type: string
  - Description:
    - *compute*
- dependencies.static.cell\_setup.pod[0].requireSameNode
  - Type: bool
  - Description:
    - *false*
- dependencies.static.cell\_setup.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.cell\_setup.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.cell\_setup.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.cell\_setup.services[1].service



- Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.cell\_setup.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.cell\_setup.services[2].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.cell\_setup.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.cell\_setup.services[3].service
  - Type: string
  - Description:
  - *compute*
- dependencies.static.compute.jobs[0]
  - Type: string
  - Description:
  - *nova-db-sync*
- dependencies.static.compute.jobs[1]
  - Type: string
  - Description:
  - *nova-rabbit-init*
- dependencies.static.compute.pod[0].labels.application
  - Type: string
  - Description:
  - *libvirt*
- dependencies.static.compute.pod[0].labels.component
  - Type: string
  - Description:

- *libvirt*
- dependencies.static.compute.pod[0].requireSameNode
  - Type: bool
  - Description:
  - *true*
- dependencies.static.compute.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.compute.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute.services[1].service
  - Type: string
  - Description:
  - *image*
- dependencies.static.compute.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute.services[2].service
  - Type: string
  - Description:
  - *compute*
- dependencies.static.compute.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute.services[3].service

- Type: string
  - Description:
    - *network*
- dependencies.static.compute.services[4].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.compute.services[4].service
  - Type: string
  - Description:
    - *compute\_metadata*
- dependencies.static.compute\_ironic.jobs[0]
  - Type: string
  - Description:
    - *nova-db-sync*
- dependencies.static.compute\_ironic.jobs[1]
  - Type: string
  - Description:
    - *nova-rabbit-init*
- dependencies.static.compute\_ironic.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.compute\_ironic.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.compute\_ironic.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.compute\_ironic.services[1].service
  - Type: string
  - Description:

- *image*
- dependencies.static.compute\_ironic.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute\_ironic.services[2].service
  - Type: string
  - Description:
  - *compute*
- dependencies.static.compute\_ironic.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute\_ironic.services[3].service
  - Type: string
  - Description:
  - *network*
- dependencies.static.compute\_ironic.services[4].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.compute\_ironic.services[4].service
  - Type: string
  - Description:
  - *baremetal*
- dependencies.static.conductor.jobs[0]
  - Type: string
  - Description:
  - *nova-db-sync*
- dependencies.static.conductor.jobs[1]
  - Type: string
  - Description:
  - *nova-rabbit-init*
- dependencies.static.conductor.services[0].endpoint

- Type: string
  - Description:
    - *internal*
- dependencies.static.conductor.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.conductor.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.conductor.services[1].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.conductor.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.conductor.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.conductor.services[3].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.conductor.services[3].service
  - Type: string
  - Description:
    - *compute*
- dependencies.static.db\_drop.services[0].endpoint
  - Type: string
  - Description:

- *internal*
- dependencies.static.db\_drop.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.db\_init.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_init.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.db\_sync.jobs[0]
  - Type: string
  - Description:
  - *nova-db-init*
- dependencies.static.db\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.db\_sync.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.image\_repo\_sync.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.image\_repo\_sync.services[0].service
  - Type: string
  - Description:
  - *local\_image\_registry*
- dependencies.static.ks\_endpoints.jobs[0]

- Type: string
  - Description:
    - *nova-ks-service*
- dependencies.static.ks\_endpoints.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_endpoints.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_service.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_service.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.ks\_user.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.ks\_user.services[0].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.novncproxy.jobs[0]
  - Type: string
  - Description:
    - *nova-db-sync*
- dependencies.static.novncproxy.services[0].endpoint
  - Type: string
  - Description:

- *internal*
- dependencies.static.novncproxy.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.rabbit\_init.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.rabbit\_init.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.scheduler.jobs[0]
  - Type: string
  - Description:
  - *nova-db-sync*
- dependencies.static.scheduler.jobs[1]
  - Type: string
  - Description:
  - *nova-rabbit-init*
- dependencies.static.scheduler.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.scheduler.services[0].service
  - Type: string
  - Description:
  - *oslo\_messaging*
- dependencies.static.scheduler.services[1].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.scheduler.services[1].service



- Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.scheduler.services[2].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.scheduler.services[2].service
  - Type: string
  - Description:
  - *identity*
- dependencies.static.scheduler.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.scheduler.services[3].service
  - Type: string
  - Description:
  - *compute*
- dependencies.static.serialproxy.jobs[0]
  - Type: string
  - Description:
  - *nova-db-sync*
- dependencies.static.serialproxy.services[0].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.serialproxy.services[0].service
  - Type: string
  - Description:
  - *oslo\_db*
- dependencies.static.service\_cleaner.jobs[0]
  - Type: string
  - Description:

- *nova-db-sync*
- dependencies.static.service\_cleaner.jobs[1]
  - Type: string
  - Description:
    - *nova-rabbit-init*
- dependencies.static.service\_cleaner.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.service\_cleaner.services[0].service
  - Type: string
  - Description:
    - *oslo\_messaging*
- dependencies.static.service\_cleaner.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.service\_cleaner.services[1].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.service\_cleaner.services[2].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.service\_cleaner.services[2].service
  - Type: string
  - Description:
    - *identity*
- dependencies.static.service\_cleaner.services[3].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.service\_cleaner.services[3].service

- Type: string
  - Description:
    - *compute*
- dependencies.static.spiceproxy.jobs[0]
  - Type: string
  - Description:
    - *nova-db-sync*
- dependencies.static.spiceproxy.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.spiceproxy.services[0].service
  - Type: string
  - Description:
    - *oslo\_db*
- dependencies.static.tests.services[0].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.tests.services[0].service
  - Type: string
  - Description:
    - *image*
- dependencies.static.tests.services[1].endpoint
  - Type: string
  - Description:
    - *internal*
- dependencies.static.tests.services[1].service
  - Type: string
  - Description:
    - *compute*
- dependencies.static.tests.services[2].endpoint
  - Type: string
  - Description:

- *internal*
- dependencies.static.tests.services[2].service
  - Type: string
  - Description:
  - *network*
- dependencies.static.tests.services[3].endpoint
  - Type: string
  - Description:
  - *internal*
- dependencies.static.tests.services[3].service
  - Type: string
  - Description:
  - *compute\_metadata*
- endpoints.baremetal.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.baremetal.hosts.default
  - Type: string
  - Description:
  - *ironic-api*
- endpoints.baremetal.hosts.public
  - Type: string
  - Description:
  - *ironic*
- endpoints.baremetal.name
  - Type: string
  - Description:
  - *ironic*
- endpoints.baremetal.path.default
  - Type: string
  - Description:
  - *nil*
- endpoints.baremetal.port.api.default

- Type: int
  - Description:
  - *6385*
- endpoints.baremetal.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.baremetal.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.cluster\_domain\_suffix
  - Type: string
  - Description:
  - *cluster.local*
- endpoints.compute.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.compute.hosts.default
  - Type: string
  - Description:
  - *nova-api*
- endpoints.compute.hosts.public
  - Type: string
  - Description:
  - *nova*
- endpoints.compute.name
  - Type: string
  - Description:
  - *nova*
- endpoints.compute.path.default
  - Type: string
  - Description:

- */v2.1/(tenant\_id)s*
- endpoints.compute.port.api.default
  - Type: int
  - Description:
  - *8774*
- endpoints.compute.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.compute.port.api.service
  - Type: int
  - Description:
  - *8774*
- endpoints.compute.port.novncproxy.default
  - Type: int
  - Description:
  - *6080*
- endpoints.compute.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.compute.scheme.service
  - Type: string
  - Description:
  - *http*
- endpoints.compute\_metadata.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.compute\_metadata.hosts.default
  - Type: string
  - Description:
  - *nova-metadata*
- endpoints.compute\_metadata.hosts.public

- Type: string
  - Description:
  - *metadata*
- endpoints.compute\_metadata.ip.ingress
  - Type: string
  - Description:
  - *nil*
- endpoints.compute\_metadata.name
  - Type: string
  - Description:
  - *nova*
- endpoints.compute\_metadata.path.default
  - Type: string
  - Description:
  - */*
- endpoints.compute\_metadata.port.metadata.default
  - Type: int
  - Description:
  - *8775*
- endpoints.compute\_metadata.port.metadata.public
  - Type: int
  - Description:
  - *80*
- endpoints.compute\_metadata.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.compute\_novnc\_proxy.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.compute\_novnc\_proxy.hosts.default
  - Type: string
  - Description:

- *nova-novncproxy*
- endpoints.compute\_novnc\_proxy.hosts.public
  - Type: string
  - Description:
    - *novncproxy*
- endpoints.compute\_novnc\_proxy.name
  - Type: string
  - Description:
    - *nova*
- endpoints.compute\_novnc\_proxy.path.default
  - Type: string
  - Description:
    - */vnc\_auto.html*
- endpoints.compute\_novnc\_proxy.port.novnc\_proxy.default
  - Type: int
  - Description:
    - *6080*
- endpoints.compute\_novnc\_proxy.port.novnc\_proxy.public
  - Type: int
  - Description:
    - *80*
- endpoints.compute\_novnc\_proxy.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.compute\_novnc\_vencrypt.host\_fqdn\_override.default.commonName
  - Type: string
  - Description:
    - *nova-novncproxy*
- endpoints.compute\_novnc\_vencrypt.host\_fqdn\_override.default.usages[0]
  - Type: string
  - Description:
    - *client auth*
- endpoints.compute\_novnc\_vencrypt.hosts.default



- Type: string
  - Description:
    - *nova-novncproxy*
- endpoints.compute\_serial\_proxy.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.compute\_serial\_proxy.hosts.default
  - Type: string
  - Description:
    - *nova-serialproxy*
- endpoints.compute\_serial\_proxy.hosts.public
  - Type: string
  - Description:
    - *serialproxy*
- endpoints.compute\_serial\_proxy.name
  - Type: string
  - Description:
    - *nova*
- endpoints.compute\_serial\_proxy.path.default
  - Type: string
  - Description:
    - */serial\_auto.html*
- endpoints.compute\_serial\_proxy.port.serial\_proxy.default
  - Type: int
  - Description:
    - *6083*
- endpoints.compute\_serial\_proxy.port.serial\_proxy.public
  - Type: int
  - Description:
    - *80*
- endpoints.compute\_serial\_proxy.scheme.default
  - Type: string
  - Description:

- *ws*
- endpoints.compute\_spice\_proxy.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.compute\_spice\_proxy.hosts.default
  - Type: string
  - Description:
  - *nova-spiceproxy*
- endpoints.compute\_spice\_proxy.hosts.public
  - Type: string
  - Description:
  - *spiceproxy*
- endpoints.compute\_spice\_proxy.name
  - Type: string
  - Description:
  - *nova*
- endpoints.compute\_spice\_proxy.path.default
  - Type: string
  - Description:
  - */spice\_auto.html*
- endpoints.compute\_spice\_proxy.port.spice\_proxy.default
  - Type: int
  - Description:
  - *6082*
- endpoints.compute\_spice\_proxy.port.spice\_proxy.public
  - Type: int
  - Description:
  - *80*
- endpoints.compute\_spice\_proxy.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.fluentd.host\_fqdn\_override.default

- Type: string
  - Description:
    - *nil*
- endpoints.fluentd.hosts.default
  - Type: string
  - Description:
    - *fluentd-logging*
- endpoints.fluentd.name
  - Type: string
  - Description:
    - *fluentd*
- endpoints.fluentd.namespace
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.fluentd.port.metrics.default
  - Type: int
  - Description:
    - *24220*
- endpoints.fluentd.port.service.default
  - Type: int
  - Description:
    - *24224*
- endpoints.fluentd.scheme
  - Type: string
  - Description:
    - *http*
- endpoints.identity.auth.admin.password
  - Type: string
  - Description:

- *password*
- endpoints.identity.auth.admin.project\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.project\_name
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.admin.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.admin.user\_domain\_name
  - Type: string
  - Description:
  - *default*
- endpoints.identity.auth.admin.username
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.cinder.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.cinder.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.cinder.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.cinder.region\_name

- Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.cinder.role
  - Type: string
  - Description:
    - *admin,service*
- endpoints.identity.auth.cinder.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.cinder.username
  - Type: string
  - Description:
    - *cinder*
- endpoints.identity.auth.ironic.auth\_type
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.ironic.auth\_version
  - Type: string
  - Description:
    - *v3*
- endpoints.identity.auth.ironic.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.ironic.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.ironic.project\_name
  - Type: string
  - Description:

- *service*
- endpoints.identity.auth.ironic.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.ironic.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.ironic.username
  - Type: string
  - Description:
  - *ironic*
- endpoints.identity.auth.neutron.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.neutron.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.neutron.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.neutron.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.neutron.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.neutron.username

- Type: string
- Description:
  - *neutron*
- endpoints.identity.auth.nova.password
  - Type: string
  - Description:
    - *password*
- endpoints.identity.auth.nova.project\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.nova.project\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.nova.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.nova.role
  - Type: string
  - Description:
    - *admin,service*
- endpoints.identity.auth.nova.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.nova.username
  - Type: string
  - Description:
    - *nova*
- endpoints.identity.auth.placement.password
  - Type: string
  - Description:

- *password*
- endpoints.identity.auth.placement.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.placement.project\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.placement.region\_name
  - Type: string
  - Description:
  - *RegionOne*
- endpoints.identity.auth.placement.role
  - Type: string
  - Description:
  - *admin*
- endpoints.identity.auth.placement.user\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.placement.username
  - Type: string
  - Description:
  - *placement*
- endpoints.identity.auth.test.password
  - Type: string
  - Description:
  - *password*
- endpoints.identity.auth.test.project\_domain\_name
  - Type: string
  - Description:
  - *service*
- endpoints.identity.auth.test.project\_name



- Type: string
  - Description:
    - *test*
- endpoints.identity.auth.test.region\_name
  - Type: string
  - Description:
    - *RegionOne*
- endpoints.identity.auth.test.role
  - Type: string
  - Description:
    - *admin*
- endpoints.identity.auth.test.user\_domain\_name
  - Type: string
  - Description:
    - *service*
- endpoints.identity.auth.test.username
  - Type: string
  - Description:
    - *nova-test*
- endpoints.identity.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.identity.hosts.default
  - Type: string
  - Description:
    - *keystone*
- endpoints.identity.hosts.internal
  - Type: string
  - Description:
    - *keystone-api*
- endpoints.identity.name
  - Type: string
  - Description:

- *keystone*
- endpoints.identity.path.default
  - Type: string
  - Description:
  - */v3*
- endpoints.identity.port.api.default
  - Type: int
  - Description:
  - *80*
- endpoints.identity.port.api.internal
  - Type: int
  - Description:
  - *5000*
- endpoints.identity.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.image.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.image.hosts.default
  - Type: string
  - Description:
  - *glance-api*
- endpoints.image.hosts.public
  - Type: string
  - Description:
  - *glance*
- endpoints.image.name
  - Type: string
  - Description:
  - *glance*
- endpoints.image.path.default

- Type: string
  - Description:
  - *nil*
- endpoints.image.port.api.default
  - Type: int
  - Description:
  - *9292*
- endpoints.image.port.api.public
  - Type: int
  - Description:
  - *80*
- endpoints.image.scheme.default
  - Type: string
  - Description:
  - *http*
- endpoints.ingress.hosts.default
  - Type: string
  - Description:
  - *ingress*
- endpoints.ingress.name
  - Type: string
  - Description:
  - *ingress*
- endpoints.ingress.namespace
  - Type: string
  - Description:
  - *nil*
- endpoints.ingress.port.ingress.default
  - Type: int
  - Description:
  - *80*
- endpoints.kube\_dns.host\_fqdn\_override.default
  - Type: string
  - Description:

- *nil*
- endpoints.kube\_dns.hosts.default
  - Type: string
  - Description:
    - *kube-dns*
- endpoints.kube\_dns.name
  - Type: string
  - Description:
    - *kubernetes-dns*
- endpoints.kube\_dns.namespace
  - Type: string
  - Description:
    - *kube-system*
- endpoints.kube\_dns.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.kube\_dns.port.dns.default
  - Type: int
  - Description:
    - *53*
- endpoints.kube\_dns.port.dns.protocol
  - Type: string
  - Description:
    - *UDP*
- endpoints.kube\_dns.scheme
  - Type: string
  - Description:
    - *http*
- endpoints.local\_image\_registry.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.local\_image\_registry.hosts.default

- Type: string
  - Description:
    - *localhost*
- endpoints.local\_image\_registry.hosts.internal
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.hosts.node
  - Type: string
  - Description:
    - *localhost*
- endpoints.local\_image\_registry.name
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.namespace
  - Type: string
  - Description:
    - *docker-registry*
- endpoints.local\_image\_registry.port.registry.node
  - Type: int
  - Description:
    - *5000*
- endpoints.network.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.network.hosts.default
  - Type: string
  - Description:
    - *neutron-server*
- endpoints.network.hosts.public
  - Type: string
  - Description:

- *neutron*
- endpoints.network.name
  - Type: string
  - Description:
    - *neutron*
- endpoints.network.path.default
  - Type: string
  - Description:
    - *nil*
- endpoints.network.port.api.default
  - Type: int
  - Description:
    - *9696*
- endpoints.network.port.api.public
  - Type: int
  - Description:
    - *80*
- endpoints.network.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.oci\_image\_registry.auth.enabled
  - Type: bool
  - Description:
    - *false*
- endpoints.oci\_image\_registry.auth.nova.password
  - Type: string
  - Description:
    - *password*
- endpoints.oci\_image\_registry.auth.nova.username
  - Type: string
  - Description:
    - *nova*
- endpoints.oci\_image\_registry.host\_fqdn\_override.default

- Type: string
  - Description:
  - *nil*
- endpoints.oci\_image\_registry.hosts.default
  - Type: string
  - Description:
  - *localhost*
- endpoints.oci\_image\_registry.name
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.namespace
  - Type: string
  - Description:
  - *oci-image-registry*
- endpoints.oci\_image\_registry.port.registry.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.auth.memcache\_secret\_key
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_cache.hosts.default
  - Type: string
  - Description:
  - *memcached*
- endpoints.oslo\_cache.port.memcache.default
  - Type: int
  - Description:

- 11211
- endpoints.oslo\_db.auth.admin.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.admin.secret.tls.internal
  - Type: string
  - Description:
    - *mariadb-tls-direct*
- endpoints.oslo\_db.auth.admin.username
  - Type: string
  - Description:
    - *root*
- endpoints.oslo\_db.auth.nova.password
  - Type: string
  - Description:
    - *password*
- endpoints.oslo\_db.auth.nova.username
  - Type: string
  - Description:
    - *nova*
- endpoints.oslo\_db.host\_fqdn\_override.default
  - Type: string
  - Description:
    - *nil*
- endpoints.oslo\_db.hosts.default
  - Type: string
  - Description:
    - *mariadb*
- endpoints.oslo\_db.path
  - Type: string
  - Description:
    - */nova*
- endpoints.oslo\_db.port.mysql.default



- Type: int
- Description:
- *3306*
- endpoints.oslo\_db.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_db\_api.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db\_api.auth.admin.username
  - Type: string
  - Description:
  - *root*
- endpoints.oslo\_db\_api.auth.nova.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db\_api.auth.nova.username
  - Type: string
  - Description:
  - *nova*
- endpoints.oslo\_db\_api.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_db\_api.hosts.default
  - Type: string
  - Description:
  - *mariadb*
- endpoints.oslo\_db\_api.path
  - Type: string
  - Description:

- */nova\_api*
- endpoints.oslo\_db\_api.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db\_api.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_db\_cell0.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db\_cell0.auth.admin.username
  - Type: string
  - Description:
  - *root*
- endpoints.oslo\_db\_cell0.auth.nova.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_db\_cell0.auth.nova.username
  - Type: string
  - Description:
  - *nova*
- endpoints.oslo\_db\_cell0.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.oslo\_db\_cell0.hosts.default
  - Type: string
  - Description:
  - *mariadb*
- endpoints.oslo\_db\_cell0.path

- Type: string
  - Description:
  - */nova\_cell0*
- endpoints.oslo\_db\_cell0.port.mysql.default
  - Type: int
  - Description:
  - *3306*
- endpoints.oslo\_db\_cell0.scheme
  - Type: string
  - Description:
  - *mysql+pymysql*
- endpoints.oslo\_messaging.auth.admin.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.admin.secret.tls.internal
  - Type: string
  - Description:
  - *rabbitmq-tls-direct*
- endpoints.oslo\_messaging.auth.admin.username
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.auth.nova.password
  - Type: string
  - Description:
  - *password*
- endpoints.oslo\_messaging.auth.nova.username
  - Type: string
  - Description:
  - *nova*
- endpoints.oslo\_messaging.host\_fqdn\_override.default
  - Type: string
  - Description:

- *nil*
- endpoints.oslo\_messaging.hosts.default
  - Type: string
  - Description:
  - *rabbitmq*
- endpoints.oslo\_messaging.path
  - Type: string
  - Description:
  - */nova*
- endpoints.oslo\_messaging.port.amqp.default
  - Type: int
  - Description:
  - *5672*
- endpoints.oslo\_messaging.port.http.default
  - Type: int
  - Description:
  - *15672*
- endpoints.oslo\_messaging.scheme
  - Type: string
  - Description:
  - *rabbit*
- endpoints.oslo\_messaging.statefulset.name
  - Type: string
  - Description:
  - *rabbitmq-rabbitmq*
- endpoints.oslo\_messaging.statefulset.replicas
  - Type: int
  - Description:
  - *2*
- endpoints.placement.host\_fqdn\_override.default
  - Type: string
  - Description:
  - *nil*
- endpoints.placement.hosts.default

- Type: string
  - Description:
    - *placement-api*
- endpoints.placement.hosts.public
  - Type: string
  - Description:
    - *placement*
- endpoints.placement.name
  - Type: string
  - Description:
    - *placement*
- endpoints.placement.path.default
  - Type: string
  - Description:
    - /
- endpoints.placement.port.api.default
  - Type: int
  - Description:
    - 8778
- endpoints.placement.port.api.public
  - Type: int
  - Description:
    - 80
- endpoints.placement.port.api.service
  - Type: int
  - Description:
    - 8778
- endpoints.placement.scheme.default
  - Type: string
  - Description:
    - *http*
- endpoints.placement.scheme.service
  - Type: string
  - Description:

- *http*
- health\_probe.logging.level
  - Type: string
  - Description:
  - *ERROR*
- helm3\_hook
  - Type: bool
  - Description:
  - *true*
- images.local\_registry.active
  - Type: bool
  - Description:
  - *false*
- images.local\_registry.exclude[0]
  - Type: string
  - Description:
  - *dep\_check*
- images.local\_registry.exclude[1]
  - Type: string
  - Description:
  - *image\_repo\_sync*
- images.pull\_policy
  - Type: string
  - Description:
  - *IfNotPresent*
- images.tags.bootstrap
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_drop
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.db\_init

- Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.dep\_check
  - Type: string
  - Description:
    - *quay.io/airshipit/kubernetes-entriypoint:latest-ubuntu\_focal*
- images.tags.image\_repo\_sync
  - Type: string
  - Description:
    - *docker.io/docker:17.07.0*
- images.tags.ks\_endpoints
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_service
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.ks\_user
  - Type: string
  - Description:
    - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.nova\_api
  - Type: string
  - Description:
    - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_archive\_deleted\_rows
  - Type: string
  - Description:
    - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_cell\_setup
  - Type: string
  - Description:

- *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_cell\_setup\_init
  - Type: string
  - Description:
  - *quay.io/airshipit/heat:2024.1-ubuntu\_jammy*
- images.tags.nova\_compute
  - Type: string
  - Description:
  - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_compute\_ironic
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-nova-compute-ironic:wallaby*
- images.tags.nova\_compute\_ssh
  - Type: string
  - Description:
  - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_conductor
  - Type: string
  - Description:
  - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_db\_sync
  - Type: string
  - Description:
  - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_novncproxy
  - Type: string
  - Description:
  - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_novncproxy\_assets
  - Type: string
  - Description:
  - *docker.io/kolla/ubuntu-source-nova-novncproxy:wallaby*
- images.tags.nova\_scheduler



- Type: string
- Description:
  - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_serialproxy
  - Type: string
  - Description:
    - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_service\_cleaner
  - Type: string
  - Description:
    - *docker.io/openstackhelm/ceph-config-helper:latest-ubuntu\_jammy*
- images.tags.nova\_spiceproxy
  - Type: string
  - Description:
    - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_spiceproxy\_assets
  - Type: string
  - Description:
    - *quay.io/airshipit/nova:2024.1-ubuntu\_jammy*
- images.tags.nova\_storage\_init
  - Type: string
  - Description:
    - *docker.io/openstackhelm/ceph-config-helper:latest-ubuntu\_jammy*
- images.tags.nova\_wait\_for\_computes\_init
  - Type: string
  - Description:
    - *gcr.io/google\_containers/hyperkube-amd64:v1.11.6*
- images.tags.rabbit\_init
  - Type: string
  - Description:
    - *docker.io/rabbitmq:3.13-management*
- images.tags.test
  - Type: string
  - Description:

- *docker.io/xrally/xrally-openstack:2.0.0*
- jobs.archive\_deleted\_rows.cron
  - Type: string
  - Description:
  - *0 \*/1 \* \* \**
- jobs.archive\_deleted\_rows.history.failed
  - Type: int
  - Description:
  - *1*
- jobs.archive\_deleted\_rows.history.success
  - Type: int
  - Description:
  - *3*
- jobs.archive\_deleted\_rows.starting\_deadline
  - Type: int
  - Description:
  - *600*
- jobs.cell\_setup.cron
  - Type: string
  - Description:
  - *0 \*/1 \* \* \**
- jobs.cell\_setup.extended\_wait.duration
  - Type: int
  - Description:
  - *5*
- jobs.cell\_setup.extended\_wait.enabled
  - Type: bool
  - Description:
  - *false*
- jobs.cell\_setup.extended\_wait.iteration
  - Type: int
  - Description:
  - *3*
- jobs.cell\_setup.extra\_command

- Type: string
  - Description:
  - *nil*
- jobs.cell\_setup.history.failed
  - Type: int
  - Description:
  - *1*
- jobs.cell\_setup.history.success
  - Type: int
  - Description:
  - *3*
- jobs.cell\_setup.starting\_deadline
  - Type: int
  - Description:
  - *600*
- jobs.service\_cleaner.cron
  - Type: string
  - Description:
  - *0 \*/1 \* \* \**
- jobs.service\_cleaner.extra\_command
  - Type: string
  - Description:
  - *nil*
- jobs.service\_cleaner.history.failed
  - Type: int
  - Description:
  - *1*
- jobs.service\_cleaner.history.success
  - Type: int
  - Description:
  - *3*
- jobs.service\_cleaner.sleep\_time
  - Type: int
  - Description:

- 60
- jobs.service\_cleaner.starting\_deadline
  - Type: int
  - Description:
  - 600
- labels.agent.compute.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-compute-node*
- labels.agent.compute.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.agent.compute\_ironic.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-compute-node*
- labels.agent.compute\_ironic.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.api\_metadata.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.api\_metadata.node\_selector\_value
  - Type: string
  - Description:
  - *enabled*
- labels.conductor.node\_selector\_key
  - Type: string
  - Description:
  - *openstack-control-plane*
- labels.conductor.node\_selector\_value

- Type: string
  - Description:
    - *enabled*
- labels.job.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.job.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.novncproxy.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.novncproxy.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.osapi.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.osapi.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.scheduler.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.scheduler.node\_selector\_value
  - Type: string
  - Description:

- *enabled*
- labels.serialproxy.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.serialproxy.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.spiceproxy.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.spiceproxy.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- labels.test.node\_selector\_key
  - Type: string
  - Description:
    - *openstack-control-plane*
- labels.test.node\_selector\_value
  - Type: string
  - Description:
    - *enabled*
- manifests.certificates
  - Type: bool
  - Description:
    - *false*
- manifests.configmap\_bin
  - Type: bool
  - Description:
    - *true*
- manifests.configmap\_etc

- Type: bool
  - Description:
    - *true*
- manifests.cron\_job\_archive\_deleted\_rows
  - Type: bool
  - Description:
    - *false*
- manifests.cron\_job\_cell\_setup
  - Type: bool
  - Description:
    - *true*
- manifests.cron\_job\_service\_cleaner
  - Type: bool
  - Description:
    - *true*
- manifests.daemonset\_compute
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_api\_metadata
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_api\_osapi
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_conductor
  - Type: bool
  - Description:
    - *true*
- manifests.deployment\_novncproxy
  - Type: bool
  - Description:

- *true*
- manifests.deployment\_scheduler
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_serialproxy
  - Type: bool
  - Description:
  - *true*
- manifests.deployment\_spiceproxy
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_metadata
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_novncproxy
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_osapi
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_serialproxy
  - Type: bool
  - Description:
  - *true*
- manifests.ingress\_spiceproxy
  - Type: bool
  - Description:
  - *true*
- manifests.job\_bootstrap



- Type: bool
  - Description:
    - *true*
- manifests.job\_cell\_setup
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_drop
  - Type: bool
  - Description:
    - *false*
- manifests.job\_db\_init
  - Type: bool
  - Description:
    - *true*
- manifests.job\_db\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_image\_repo\_sync
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_endpoints
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_service
  - Type: bool
  - Description:
    - *true*
- manifests.job\_ks\_user
  - Type: bool
  - Description:

- *true*
- manifests.job\_rabbit\_init
  - Type: bool
  - Description:
  - *true*
- manifests.job\_storage\_init
  - Type: bool
  - Description:
  - *true*
- manifests.network\_policy
  - Type: bool
  - Description:
  - *false*
- manifests.pdb\_metadata
  - Type: bool
  - Description:
  - *true*
- manifests.pdb\_osapi
  - Type: bool
  - Description:
  - *true*
- manifests.pod\_rally\_test
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db\_api
  - Type: bool
  - Description:
  - *true*
- manifests.secret\_db\_cell0

- Type: bool
  - Description:
    - *true*
- manifests.secret\_ingress\_tls
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_keystone
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_rabbitmq
  - Type: bool
  - Description:
    - *true*
- manifests.secret\_registry
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress\_metadata
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress\_novncproxy
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress\_osapi
  - Type: bool
  - Description:
    - *true*
- manifests.service\_ingress\_serialproxy
  - Type: bool
  - Description:

- *true*
- manifests.service\_ingress\_spicaproxy
  - Type: bool
  - Description:
  - *true*
- manifests.service\_metadata
  - Type: bool
  - Description:
  - *true*
- manifests.service\_novncproxy
  - Type: bool
  - Description:
  - *true*
- manifests.service\_osapi
  - Type: bool
  - Description:
  - *true*
- manifests.service\_serialproxy
  - Type: bool
  - Description:
  - *true*
- manifests.service\_spicaproxy
  - Type: bool
  - Description:
  - *true*
- manifests.statefulset\_compute\_ironic
  - Type: bool
  - Description:
  - *false*
- network.backend[0]
  - Type: string
  - Description:
  - *openvswitch*
- network.metadata.external\_policy\_local

- Type: bool
  - Description:
  - *false*
- network.metadata.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /
- network.metadata.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.metadata.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.metadata.ingress.public
  - Type: bool
  - Description:
  - *true*
- network.metadata.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.metadata.node\_port.port
  - Type: int
  - Description:
  - *30775*
- network.metadata.port
  - Type: int
  - Description:
  - *8775*
- network.novncproxy.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:

- /
- network.novncproxy.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.novncproxy.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.novncproxy.ingress.public
  - Type: bool
  - Description:
  - *true*
- network.novncproxy.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.novncproxy.node\_port.port
  - Type: int
  - Description:
  - *30680*
- network.osapi.external\_policy\_local
  - Type: bool
  - Description:
  - *false*
- network.osapi.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /
- network.osapi.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.osapi.ingress.classes.namespace

- Type: string
  - Description:
    - *nginx*
- network.osapi.ingress.public
  - Type: bool
  - Description:
    - *true*
- network.osapi.node\_port.enabled
  - Type: bool
  - Description:
    - *false*
- network.osapi.node\_port.port
  - Type: int
  - Description:
    - *30774*
- network.osapi.port
  - Type: int
  - Description:
    - *8774*
- network.serialproxy.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
    - */*
- network.serialproxy.ingress.classes.cluster
  - Type: string
  - Description:
    - *nginx-cluster*
- network.serialproxy.ingress.classes.namespace
  - Type: string
  - Description:
    - *nginx*
- network.serialproxy.ingress.public
  - Type: bool
  - Description:

- *true*
- network.serialproxy.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.serialproxy.node\_port.port
  - Type: int
  - Description:
  - 30683
- network.spicproxy.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
  - Type: string
  - Description:
  - /
- network.spicproxy.ingress.classes.cluster
  - Type: string
  - Description:
  - *nginx-cluster*
- network.spicproxy.ingress.classes.namespace
  - Type: string
  - Description:
  - *nginx*
- network.spicproxy.ingress.public
  - Type: bool
  - Description:
  - *true*
- network.spicproxy.node\_port.enabled
  - Type: bool
  - Description:
  - *false*
- network.spicproxy.node\_port.port
  - Type: int
  - Description:
  - 30682
- network.ssh.enabled



- Type: bool
  - Description:
    - *false*
- network.ssh.from\_subnet
  - Type: string
  - Description:
    - *0.0.0.0/0*
- network.ssh.key\_types[0]
  - Type: string
  - Description:
    - *rsa*
- network.ssh.key\_types[1]
  - Type: string
  - Description:
    - *dsa*
- network.ssh.key\_types[2]
  - Type: string
  - Description:
    - *ecdsa*
- network.ssh.key\_types[3]
  - Type: string
  - Description:
    - *ed25519*
- network.ssh.port
  - Type: int
  - Description:
    - *8022*
- network.ssh.private\_key
  - Type: string
  - Description:
    - *null*
- network.ssh.public\_key
  - Type: string
  - Description:

- *null*
- network\_policy.nova.egress[0]
  - Type: object
  - Description:
  - {}
- network\_policy.nova.ingress[0]
  - Type: object
  - Description:
  - {}
- pod.affinity.anti.topologyKey.default
  - Type: string
  - Description:
  - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
  - Type: string
  - Description:
  - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
  - Type: int
  - Description:
  - *10*
- pod.lifecycle.disruption\_budget.metadata.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.disruption\_budget.osapi.min\_available
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.termination\_grace\_period.metadata.timeout
  - Type: int
  - Description:
  - *30*
- pod.lifecycle.termination\_grace\_period.osapi.timeout

- Type: int
  - Description:
  - *30*
- pod.lifecycle.upgrades.daemonsets.compute.enabled
  - Type: bool
  - Description:
  - *true*
- pod.lifecycle.upgrades.daemonsets.compute.max\_unavailable
  - Type: int
  - Description:
  - *1*
- pod.lifecycle.upgrades.daemonsets.compute.min\_ready\_seconds
  - Type: int
  - Description:
  - *0*
- pod.lifecycle.upgrades.daemonsets.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.pod\_replacement\_strategy
  - Type: string
  - Description:
  - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision\_history
  - Type: int
  - Description:
  - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_surge
  - Type: int
  - Description:
  - *3*
- pod.lifecycle.upgrades.deployments.rolling\_update.max\_unavailable
  - Type: int
  - Description:

- *1*
- pod.mounts.nova\_api\_metadata.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_api\_metadata.nova\_api\_metadata.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_api\_metadata.nova\_api\_metadata.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_api\_osapi.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_api\_osapi.nova\_api\_osapi.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_api\_osapi.nova\_api\_osapi.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_bootstrap.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_bootstrap.nova\_bootstrap.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_bootstrap.nova\_bootstrap.volumes

- Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_compute.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_compute.nova\_compute.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_compute.nova\_compute.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_compute\_ironic.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_compute\_ironic.nova\_compute\_ironic.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_compute\_ironic.nova\_compute\_ironic.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_conductor.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_conductor.nova\_conductor.volumeMounts
  - Type: string
  - Description:

- *nil*
- pod.mounts.nova\_conductor.nova\_conductor.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_db\_sync.nova\_db\_sync.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_db\_sync.nova\_db\_sync.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_novncproxy.init\_novncproxy
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_novncproxy.nova\_novncproxy.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_novncproxy.nova\_novncproxy.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_scheduler.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_scheduler.nova\_scheduler.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_scheduler.nova\_scheduler.volumes

- Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_serialproxy.init\_serialproxy
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_serialproxy.nova\_serialproxy.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_serialproxy.nova\_serialproxy.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_spiceproxy.init\_spiceproxy
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_spiceproxy.nova\_spiceproxy.volumeMounts
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_spiceproxy.nova\_spiceproxy.volumes
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_tests.init\_container
  - Type: string
  - Description:
  - *nil*
- pod.mounts.nova\_tests.nova\_tests.volumeMounts
  - Type: string
  - Description:

- *nil*
- pod.mounts.nova\_tests.nova\_tests.volumes
  - Type: string
  - Description:
  - *nil*
- pod.probes.api-metadata.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api-metadata.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 5
- pod.probes.api-metadata.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - 10
- pod.probes.api-metadata.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - 5
- pod.probes.api-metadata.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api-metadata.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 5
- pod.probes.api-metadata.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - 10
- pod.probes.api-metadata.default.readiness.params.timeoutSeconds



- Type: int
  - Description:
  - 5
- pod.probes.api-osapi.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api-osapi.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 5
- pod.probes.api-osapi.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - 10
- pod.probes.api-osapi.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - 5
- pod.probes.api-osapi.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.api-osapi.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 5
- pod.probes.api-osapi.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - 10
- pod.probes.api-osapi.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:

- 5
- pod.probes.compute-spice-proxy.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.compute-spice-proxy.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 30
- pod.probes.compute-spice-proxy.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - 60
- pod.probes.compute-spice-proxy.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - 15
- pod.probes.compute-spice-proxy.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.compute-spice-proxy.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 30
- pod.probes.compute-spice-proxy.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - 60
- pod.probes.compute-spice-proxy.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - 15
- pod.probes.compute.default.liveness.enabled

- Type: bool
  - Description:
    - *true*
- pod.probes.compute.default.liveness.params.periodSeconds
  - Type: int
  - Description:
    - *90*
- pod.probes.compute.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
    - *70*
- pod.probes.compute.default.readiness.enabled
  - Type: bool
  - Description:
    - *true*
- pod.probes.compute.default.readiness.params.periodSeconds
  - Type: int
  - Description:
    - *90*
- pod.probes.compute.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
    - *70*
- pod.probes.compute.default.startup.enabled
  - Type: bool
  - Description:
    - *true*
- pod.probes.compute.default.startup.params.failureThreshold
  - Type: int
  - Description:
    - *120*
- pod.probes.compute.default.startup.params.periodSeconds
  - Type: int
  - Description:

- *10*
- pod.probes.compute.default.startup.params.successThreshold
  - Type: int
  - Description:
  - *1*
- pod.probes.compute.default.startup.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.conductor.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.conductor.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *120*
- pod.probes.conductor.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.conductor.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.conductor.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.conductor.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *80*
- pod.probes.conductor.default.readiness.params.periodSeconds

- Type: int
  - Description:
  - *90*
- pod.probes.conductor.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.novncproxy.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.novncproxy.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.novncproxy.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.novncproxy.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.novncproxy.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.novncproxy.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.novncproxy.default.readiness.params.periodSeconds
  - Type: int
  - Description:

- 60
- pod.probes.novncproxy.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - 15
- pod.probes.rpc\_retries
  - Type: int
  - Description:
  - 2
- pod.probes.rpc\_timeout
  - Type: int
  - Description:
  - 60
- pod.probes.scheduler.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.scheduler.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - 120
- pod.probes.scheduler.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - 90
- pod.probes.scheduler.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - 70
- pod.probes.scheduler.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.scheduler.default.readiness.params.initialDelaySeconds

- Type: int
  - Description:
  - *80*
- pod.probes.scheduler.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - *90*
- pod.probes.scheduler.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - *70*
- pod.probes.serialproxy.default.liveness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.serialproxy.default.liveness.params.initialDelaySeconds
  - Type: int
  - Description:
  - *30*
- pod.probes.serialproxy.default.liveness.params.periodSeconds
  - Type: int
  - Description:
  - *60*
- pod.probes.serialproxy.default.liveness.params.timeoutSeconds
  - Type: int
  - Description:
  - *15*
- pod.probes.serialproxy.default.readiness.enabled
  - Type: bool
  - Description:
  - *true*
- pod.probes.serialproxy.default.readiness.params.initialDelaySeconds
  - Type: int
  - Description:

- 30
- pod.probes.serialproxy.default.readiness.params.periodSeconds
  - Type: int
  - Description:
  - 60
- pod.probes.serialproxy.default.readiness.params.timeoutSeconds
  - Type: int
  - Description:
  - 15
- pod.replicas.api\_metadata
  - Type: int
  - Description:
  - 1
- pod.replicas.compute\_ironic
  - Type: int
  - Description:
  - 1
- pod.replicas.conductor
  - Type: int
  - Description:
  - 1
- pod.replicas.novncproxy
  - Type: int
  - Description:
  - 1
- pod.replicas.osapi
  - Type: int
  - Description:
  - 1
- pod.replicas.scheduler
  - Type: int
  - Description:
  - 1
- pod.replicas.serialproxy



- Type: int
  - Description:
  - *1*
- pod.replicas.spiceproxy
  - Type: int
  - Description:
  - *1*
- pod.resources.api.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.api.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.api.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.api.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.api\_metadata.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.api\_metadata.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.api\_metadata.requests.cpu
  - Type: string
  - Description:

- *100m*
- pod.resources.api\_metadata.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.compute.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.compute.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.compute.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.compute.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.compute\_ironic.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.compute\_ironic.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.compute\_ironic.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.compute\_ironic.requests.memory

- Type: string
  - Description:
  - *128Mi*
- pod.resources.conductor.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.conductor.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.conductor.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.conductor.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.enabled
  - Type: bool
  - Description:
  - *false*
- pod.resources.jobs.archive\_deleted\_rows.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.archive\_deleted\_rows.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.archive\_deleted\_rows.requests.cpu
  - Type: string
  - Description:

- *100m*
- pod.resources.jobs.archive\_deleted\_rows.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.bootstrap.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.cell\_setup.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.cell\_setup.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.cell\_setup.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.cell\_setup.requests.memory

- Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_drop.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_drop.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.db\_drop.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.db\_drop.requests.memory
  - Type: string
  - Description:
    - *128Mi*
- pod.resources.jobs.db\_init.limits.cpu
  - Type: string
  - Description:
    - *2000m*
- pod.resources.jobs.db\_init.limits.memory
  - Type: string
  - Description:
    - *1024Mi*
- pod.resources.jobs.db\_init.requests.cpu
  - Type: string
  - Description:
    - *100m*
- pod.resources.jobs.db\_init.requests.memory
  - Type: string
  - Description:

- *128Mi*
- pod.resources.jobs.db\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.db\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.db\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.db\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.image\_repo\_sync.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.image\_repo\_sync.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.image\_repo\_sync.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.image\_repo\_sync.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_endpoints.limits.cpu

- Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_endpoints.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_endpoints.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_endpoints.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_service.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.ks\_service.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_service.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_service.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.ks\_user.limits.cpu
  - Type: string
  - Description:

- *2000m*
- pod.resources.jobs.ks\_user.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.ks\_user.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.ks\_user.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.rabbit\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.rabbit\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.rabbit\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.rabbit\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.service\_cleaner.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.service\_cleaner.limits.memory



- Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.service\_cleaner.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.service\_cleaner.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.storage\_init.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.storage\_init.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.jobs.storage\_init.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.storage\_init.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.jobs.tests.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.jobs.tests.limits.memory
  - Type: string
  - Description:

- *1024Mi*
- pod.resources.jobs.tests.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.jobs.tests.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.novncproxy.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.novncproxy.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.novncproxy.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.novncproxy.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.scheduler.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.scheduler.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.scheduler.requests.cpu

- Type: string
  - Description:
  - *100m*
- pod.resources.scheduler.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.serialproxy.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.serialproxy.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.serialproxy.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.serialproxy.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.spiceproxy.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.spiceproxy.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.spiceproxy.requests.cpu
  - Type: string
  - Description:

- *100m*
- pod.resources.spiceproxy.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.resources.ssh.limits.cpu
  - Type: string
  - Description:
  - *2000m*
- pod.resources.ssh.limits.memory
  - Type: string
  - Description:
  - *1024Mi*
- pod.resources.ssh.requests.cpu
  - Type: string
  - Description:
  - *100m*
- pod.resources.ssh.requests.memory
  - Type: string
  - Description:
  - *128Mi*
- pod.security\_context.archive\_deleted\_rows.container.nova\_archive\_deleted\_rows.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.archive\_deleted\_rows.container.nova\_archive\_deleted\_rows.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.archive\_deleted\_rows.container.nova\_archive\_deleted\_rows\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.archive\_deleted\_rows.container.nova\_archive\_deleted\_rows\_init.readOnlyRootFilesystem

- Type: bool
  - Description:
  - *true*
- pod.security\_context.archive\_deleted\_rows.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.bootstrap.container.bootstrap.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.bootstrap.container.bootstrap.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.bootstrap.container.nova\_wait\_for\_computes\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.bootstrap.container.nova\_wait\_for\_computes\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.bootstrap.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.cell\_setup.container.nova\_cell\_setup.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.cell\_setup.container.nova\_cell\_setup.readOnlyRootFilesystem
  - Type: bool
  - Description:

- *true*
- pod.security\_context.cell\_setup.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.nova.container.ceph\_perms.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.ceph\_perms.runAsUser
  - Type: int
  - Description:
  - *0*
- pod.security\_context.nova.container.nova\_api.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_api.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_api\_metadata\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_api\_metadata\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_compute.privileged
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_compute.readOnlyRootFilesystem

- Type: bool
  - Description:
    - *true*
- pod.security\_context.nova.container.nova\_compute\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *true*
- pod.security\_context.nova.container.nova\_compute\_init.runAsUser
  - Type: int
  - Description:
    - *0*
- pod.security\_context.nova.container.nova\_compute\_serial\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.nova.container.nova\_compute\_serial\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *true*
- pod.security\_context.nova.container.nova\_compute\_spice\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
    - *false*
- pod.security\_context.nova.container.nova\_compute\_spice\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
    - *true*
- pod.security\_context.nova.container.nova\_compute\_ssh.privileged
  - Type: bool
  - Description:
    - *true*
- pod.security\_context.nova.container.nova\_compute\_ssh.runAsUser
  - Type: int
  - Description:

- 0
- pod.security\_context.nova.container.nova\_compute\_ssh\_init.runAsUser
  - Type: int
  - Description:
  - 0
- pod.security\_context.nova.container.nova\_compute\_vnc\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_compute\_vnc\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_conductor.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_conductor.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_novncproxy.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_novncproxy.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_novncproxy\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_novncproxy\_init.readOnlyRootFilesystem



- Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_novncproxy\_init\_assests.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_novncproxy\_init\_assests.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_osapi.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_osapi.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_scheduler.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_scheduler.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_serialproxy.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_serialproxy.readOnlyRootFilesystem
  - Type: bool
  - Description:

- *true*
- pod.security\_context.nova.container.nova\_serialproxy\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_serialproxy\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_spiceproxy.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_spiceproxy.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_spiceproxy\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_spiceproxy\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.nova\_spiceproxy\_init\_assets.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova.container.nova\_spiceproxy\_init\_assets.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.container.tungstenfabric\_compute\_init.allowPrivilegeEscalation

- Type: bool
- Description:
- *false*
- pod.security\_context.nova.container.tungstenfabric\_compute\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.nova\_cell\_setup.container.nova\_cell\_setup.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova\_cell\_setup.container.nova\_cell\_setup.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova\_cell\_setup.container.nova\_cell\_setup\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova\_cell\_setup.container.nova\_cell\_setup\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.nova\_cell\_setup.container.nova\_wait\_for\_computes\_init.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.nova\_cell\_setup.container.nova\_wait\_for\_computes\_init.readOnlyRootFilesystem
  - Type: bool
  - Description:

- *true*
- pod.security\_context.nova\_cell\_setup.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.security\_context.service\_cleaner.container.nova\_service\_cleaner.allowPrivilegeEscalation
  - Type: bool
  - Description:
  - *false*
- pod.security\_context.service\_cleaner.container.nova\_service\_cleaner.readOnlyRootFilesystem
  - Type: bool
  - Description:
  - *true*
- pod.security\_context.service\_cleaner.pod.runAsUser
  - Type: int
  - Description:
  - *42424*
- pod.tolerations.nova.enabled
  - Type: bool
  - Description:
  - *false*
- pod.tolerations.nova.tolerations[0].effect
  - Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.nova.tolerations[0].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/master*
- pod.tolerations.nova.tolerations[0].operator
  - Type: string
  - Description:
  - *Exists*
- pod.tolerations.nova.tolerations[1].effect

- Type: string
  - Description:
  - *NoSchedule*
- pod.tolerations.nova.tolerations[1].key
  - Type: string
  - Description:
  - *node-role.kubernetes.io/control-plane*
- pod.tolerations.nova.tolerations[1].operator
  - Type: string
  - Description:
  - *Exists*
- pod.useHostNetwork.novncproxy
  - Type: bool
  - Description:
  - *true*
- pod.use\_fqdn.compute
  - Type: bool
  - Description:
  - *true*
- rbd\_pool.app\_name
  - Type: string
  - Description:
  - *nova-vms*
- rbd\_pool.chunk\_size
  - Type: int
  - Description:
  - *8*
- rbd\_pool.crush\_rule
  - Type: string
  - Description:
  - *replicated\_rule*
- rbd\_pool.replication
  - Type: int
  - Description:

- 3
- release\_group
  - Type: string
  - Description:
  - *nil*
- secrets.identity.admin
  - Type: string
  - Description:
  - *nova-keystone-admin*
- secrets.identity.nova
  - Type: string
  - Description:
  - *nova-keystone-user*
- secrets.identity.test
  - Type: string
  - Description:
  - *nova-keystone-test*
- secrets.oci\_image\_registry.nova
  - Type: string
  - Description:
  - *nova-oci-image-registry*
- secrets.oslo\_db.admin
  - Type: string
  - Description:
  - *nova-db-admin*
- secrets.oslo\_db.nova
  - Type: string
  - Description:
  - *nova-db-user*
- secrets.oslo\_db\_api.admin
  - Type: string
  - Description:
  - *nova-db-api-admin*
- secrets.oslo\_db\_api.nova

- Type: string
  - Description:
    - *nova-db-api-user*
- secrets.oslo\_db\_cell0.admin
  - Type: string
  - Description:
    - *nova-db-cell0-admin*
- secrets.oslo\_db\_cell0.nova
  - Type: string
  - Description:
    - *nova-db-cell0-user*
- secrets.oslo\_messaging.admin
  - Type: string
  - Description:
    - *nova-rabbitmq-admin*
- secrets.oslo\_messaging.nova
  - Type: string
  - Description:
    - *nova-rabbitmq-user*
- secrets.tls.compute.osapi.internal
  - Type: string
  - Description:
    - *nova-tls-api*
- secrets.tls.compute.osapi.public
  - Type: string
  - Description:
    - *nova-tls-public*
- secrets.tls.compute\_metadata.metadata.internal
  - Type: string
  - Description:
    - *metadata-tls-metadata*
- secrets.tls.compute\_metadata.metadata.public
  - Type: string
  - Description:

- *metadata-tls-public*
- secrets.tls.compute\_novnc\_proxy.novncproxy.internal
  - Type: string
  - Description:
    - *nova-novncproxy-tls-proxy*
- secrets.tls.compute\_novnc\_proxy.novncproxy.public
  - Type: string
  - Description:
    - *nova-novncproxy-tls-public*
- secrets.tls.compute\_novnc\_proxy.vencrypt.internal
  - Type: string
  - Description:
    - *nova-novncproxy-vencrypt*
- secrets.tls.compute\_serial\_proxy.serialproxy.internal
  - Type: string
  - Description:
    - *nova-serialproxy-tls-proxy*
- secrets.tls.compute\_serial\_proxy.serialproxy.public
  - Type: string
  - Description:
    - *nova-serialproxy-tls-public*
- secrets.tls.compute\_spice\_proxy.spiceproxy.internal
  - Type: string
  - Description:
    - *nova-spiceproxy-tls-proxy*
- secrets.tls.compute\_spice\_proxy.spiceproxy.public
  - Type: string
  - Description:
    - *nova-spiceproxy-tls-public*
- tls.identity
  - Type: bool
  - Description:
    - *false*
- tls.oslo\_db



- Type: bool
- Description:
- *false*
- `tls.oslo_messaging`
  - Type: bool
  - Description:
  - *false*

## 3.19 Octavia

There are various customizations you can do to tailor the deployment of OpenStack Octavia. You can find those below.

### 3.19.1 General Parameters

- `bootstrap.enabled`
  - Type: bool
  - Description:
  - *true*
- `bootstrap.ks_user`
  - Type: string
  - Description:
  - *admin*
- `bootstrap.script`
  - Type: string
  - Description:
  - ```
openstack role create --or-show load-balancer_admin
openstack role create --or-show load-balancer_observer
openstack role create --or-show load-balancer_global_observer
openstack role create --or-show load-balancer_quota_admin
openstack role create --or-show load-balancer_member
```
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:

- *%(message)s*
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - *()*
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`

- Type: string
 - Description:
 - (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:

- *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`

- Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_octavia.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_octavia.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_octavia.qualname`
 - Type: string
 - Description:
 - *octavia*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:

- *sqlalchemy*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *octavia*
- `conf.octavia.DEFAULT.log_config_append`
 - Type: string
 - Description:
 - */etc/octavia/logging.conf*
- `conf.octavia.api_settings.api_handler`
 - Type: string
 - Description:
 - *queue_producer*
- `conf.octavia.api_settings.bind_host`
 - Type: string
 - Description:
 - *0.0.0.0*
- `conf.octavia.certificates.ca_certificate`
 - Type: string
 - Description:
 - */etc/octavia/certs/ca_01.pem*
- `conf.octavia.certificates.ca_private_key`
 - Type: string
 - Description:
 - */etc/octavia/certs/private/cakey.pem*
- `conf.octavia.certificates.ca_private_key_passphrase`
 - Type: string
 - Description:
 - *foobar*
- `conf.octavia.controller_worker.amp_active_retries`

- Type: int
 - Description:
 - *100*
- `conf.octavia.controller_worker.amp_active_wait_sec`
 - Type: int
 - Description:
 - *2*
- `conf.octavia.controller_worker.amp_boot_network_list`
 - Type: string
 - Description:
 - *nil*
- `conf.octavia.controller_worker.amp_flavor_id`
 - Type: string
 - Description:
 - *nil*
- `conf.octavia.controller_worker.amp_image_owner_id`
 - Type: string
 - Description:
 - *nil*
- `conf.octavia.controller_worker.amp_image_tag`
 - Type: string
 - Description:
 - *amphora*
- `conf.octavia.controller_worker.amp_secgroup_list`
 - Type: string
 - Description:
 - *nil*
- `conf.octavia.controller_worker.amp_ssh_key_name`
 - Type: string
 - Description:
 - *octavia_ssh_key*
- `conf.octavia.controller_worker.amphora_driver`
 - Type: string
 - Description:

- *amphora_haproxy_rest_driver*
- `conf.octavia.controller_worker.compute_driver`
 - Type: string
 - Description:
 - *compute_nova_driver*
- `conf.octavia.controller_worker.loadbalancer_topology`
 - Type: string
 - Description:
 - *SINGLE*
- `conf.octavia.controller_worker.network_driver`
 - Type: string
 - Description:
 - *allowed_address_pairs_driver*
- `conf.octavia.controller_worker.workers`
 - Type: int
 - Description:
 - 2
- `conf.octavia.database.max_retries`
 - Type: int
 - Description:
 - *-1*
- `conf.octavia.haproxy_amphora.base_cert_dir`
 - Type: string
 - Description:
 - */var/lib/octavia/certs*
- `conf.octavia.haproxy_amphora.base_path`
 - Type: string
 - Description:
 - */var/lib/octavia*
- `conf.octavia.haproxy_amphora.client_cert`
 - Type: string
 - Description:
 - */etc/octavia/certs/client.pem*
- `conf.octavia.haproxy_amphora.server_ca`

- Type: string
 - Description:
 - */etc/octavia/certs/ca_01.pem*
- `conf.octavia.health_manager.bind_ip`
 - Type: string
 - Description:
 - *0.0.0.0*
- `conf.octavia.health_manager.bind_port`
 - Type: int
 - Description:
 - *5555*
- `conf.octavia.health_manager.controller_ip_port_list`
 - Type: string
 - Description:
 - *0.0.0.0:5555*
- `conf.octavia.health_manager.heartbeat_key`
 - Type: string
 - Description:
 - *insecure*
- `conf.octavia.house_keeping.amphora_expiry_age`
 - Type: int
 - Description:
 - *3600*
- `conf.octavia.house_keeping.load_balancer_expiry_age`
 - Type: int
 - Description:
 - *3600*
- `conf.octavia.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.octavia.keystone_authtoken.auth_version`
 - Type: string
 - Description:

- v3
- conf.octavia.keystone_authtoken.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.octavia.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *load-balancer*
- conf.octavia.oslo_messaging.rpc_thread_pool_size
 - Type: int
 - Description:
 - 2
- conf.octavia.oslo_messaging.topic
 - Type: string
 - Description:
 - *octavia_prov*
- conf.octavia.oslo_messaging_notifications.driver
 - Type: string
 - Description:
 - *messagingv2*
- conf.octavia.service_auth.auth_type
 - Type: string
 - Description:
 - *password*
- conf.octavia.service_auth.auth_version
 - Type: string
 - Description:
 - v3
- conf.octavia.service_auth.cafile
 - Type: string
 - Description:
 -
- conf.octavia.service_auth.memcache_security_strategy

- Type: string
 - Description:
 - *ENCRYPT*
- conf.octavia_api_uwsgi.uwsgi.add-header
 - Type: string
 - Description:
 - *Connection: close*
- conf.octavia_api_uwsgi.uwsgi.buffer-size
 - Type: int
 - Description:
 - *65535*
- conf.octavia_api_uwsgi.uwsgi.die-on-term
 - Type: bool
 - Description:
 - *true*
- conf.octavia_api_uwsgi.uwsgi.enable-threads
 - Type: bool
 - Description:
 - *true*
- conf.octavia_api_uwsgi.uwsgi.exit-on-reload
 - Type: bool
 - Description:
 - *false*
- conf.octavia_api_uwsgi.uwsgi.hook-master-start
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- conf.octavia_api_uwsgi.uwsgi.lazy-apps
 - Type: bool
 - Description:
 - *true*
- conf.octavia_api_uwsgi.uwsgi.log-x-forwarded-for
 - Type: bool
 - Description:

- *true*
- `conf.octavia_api_uwsgi.uwsgi.master`
 - Type: bool
 - Description:
 - *true*
- `conf.octavia_api_uwsgi.uwsgi.processes`
 - Type: int
 - Description:
 - *4*
- `conf.octavia_api_uwsgi.uwsgi.procname-prefix-spaced`
 - Type: string
 - Description:
 - *octavia-api:*
- `conf.octavia_api_uwsgi.uwsgi.route-user-agent`
 - Type: string
 - Description:
 - *^kube-probe.* donotlog:*
- `conf.octavia_api_uwsgi.uwsgi.thunder-lock`
 - Type: bool
 - Description:
 - *true*
- `conf.octavia_api_uwsgi.uwsgi.worker-reload-mercy`
 - Type: int
 - Description:
 - *80*
- `conf.octavia_api_uwsgi.uwsgi.wsgi-file`
 - Type: string
 - Description:
 - */var/lib/openstack/bin/octavia-wsgi*
- `conf.rabbitmq.policies[0].apply-to`
 - Type: string
 - Description:
 - *all*
- `conf.rabbitmq.policies[0].definition.ha-mode`

- Type: string
 - Description:
 - *all*
- `conf.rabbitmq.policies[0].definition.ha-sync-mode`
 - Type: string
 - Description:
 - *automatic*
- `conf.rabbitmq.policies[0].definition.message-ttl`
 - Type: int
 - Description:
 - *70000*
- `conf.rabbitmq.policies[0].name`
 - Type: string
 - Description:
 - *ha_ttl_octavia*
- `conf.rabbitmq.policies[0].pattern`
 - Type: string
 - Description:
 - *(notifications)\.*
- `conf.rabbitmq.policies[0].priority`
 - Type: int
 - Description:
 - *0*
- `conf.rabbitmq.policies[0].vhost`
 - Type: string
 - Description:
 - *octavia*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
 - Type: string
 - Description:
 - *heat-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`
 - Type: string
 - Description:

- *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *octavia-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *octavia-ks-user*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *octavia-ks-endpoints*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *octavia-rabbit-init*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[1].service

- Type: string
 - Description:
 - *identity*
- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.api.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[3].service
 - Type: string
 - Description:
 - *oslo_cache*
- dependencies.static.api.services[4].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[4].service
 - Type: string
 - Description:
 - *network*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:

- *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *octavia-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.health_manager.jobs[0]
 - Type: string
 - Description:
 - *octavia-db-sync*
- dependencies.static.health_manager.jobs[1]
 - Type: string
 - Description:
 - *octavia-ks-user*
- dependencies.static.health_manager.jobs[2]
 - Type: string
 - Description:
 - *octavia-ks-endpoints*
- dependencies.static.health_manager.jobs[3]
 - Type: string
 - Description:
 - *octavia-rabbit-init*
- dependencies.static.health_manager.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[0].service

- Type: string
- Description:
- *oslo_db*
- dependencies.static.health_manager.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.health_manager.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.health_manager.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[3].service
 - Type: string
 - Description:
 - *oslo_cache*
- dependencies.static.health_manager.services[4].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[4].service
 - Type: string
 - Description:

- *network*
- dependencies.static.health_manager.services[5].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[5].service
 - Type: string
 - Description:
 - *load_balancer*
- dependencies.static.housekeeping.jobs[0]
 - Type: string
 - Description:
 - *octavia-db-sync*
- dependencies.static.housekeeping.jobs[1]
 - Type: string
 - Description:
 - *octavia-ks-user*
- dependencies.static.housekeeping.jobs[2]
 - Type: string
 - Description:
 - *octavia-ks-endpoints*
- dependencies.static.housekeeping.jobs[3]
 - Type: string
 - Description:
 - *octavia-rabbit-init*
- dependencies.static.housekeeping.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.housekeeping.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.housekeeping.services[1].endpoint

- Type: string
- Description:
- *internal*
- dependencies.static.housekeeping.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.housekeeping.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.housekeeping.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.housekeeping.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.housekeeping.services[3].service
 - Type: string
 - Description:
 - *oslo_cache*
- dependencies.static.housekeeping.services[4].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.housekeeping.services[4].service
 - Type: string
 - Description:
 - *network*
- dependencies.static.housekeeping.services[5].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.housekeeping.services[5].service
 - Type: string
 - Description:
 - *load_balancer*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *octavia-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint

- Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.worker.jobs[0]
 - Type: string
 - Description:
 - *octavia-db-sync*
- dependencies.static.worker.jobs[1]
 - Type: string
 - Description:
 - *octavia-ks-user*
- dependencies.static.worker.jobs[2]
 - Type: string
 - Description:
 - *octavia-ks-endpoints*
- dependencies.static.worker.jobs[3]
 - Type: string
 - Description:
 - *octavia-rabbit-init*
- dependencies.static.worker.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.worker.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.worker.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.worker.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.worker.services[3].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[3].service
 - Type: string
 - Description:
 - *oslo_cache*
- dependencies.static.worker.services[4].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[4].service

- Type: string
 - Description:
 - *network*
- dependencies.static.worker.services[5].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.worker.services[5].service
 - Type: string
 - Description:
 - *load_balancer*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:

- *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.octavia.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.octavia.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.octavia.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.octavia.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.octavia.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.octavia.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.octavia.username
 - Type: string
 - Description:
 - *octavia*
- endpoints.identity.auth.test.password

- Type: string
 - Description:
 - *password*
- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.project_name
 - Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.username
 - Type: string
 - Description:
 - *test*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:

- *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.load_balancer.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.load_balancer.hosts.default
 - Type: string
 - Description:
 - *octavia-api*
- endpoints.load_balancer.hosts.public

- Type: string
 - Description:
 - *octavia*
- endpoints.load_balancer.name
 - Type: string
 - Description:
 - *octavia*
- endpoints.load_balancer.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.load_balancer.port.api.default
 - Type: int
 - Description:
 - *9876*
- endpoints.load_balancer.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.load_balancer.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:

- *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.network.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.network.hosts.default
 - Type: string
 - Description:
 - *neutron-server*
- endpoints.network.hosts.public
 - Type: string
 - Description:
 - *neutron*
- endpoints.network.name
 - Type: string
 - Description:
 - *neutron*
- endpoints.network.path.default

- Type: string
 - Description:
 - *nil*
- endpoints.network.port.api.default
 - Type: int
 - Description:
 - *9696*
- endpoints.network.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.network.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.octavia.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.octavia.username
 - Type: string
 - Description:
 - *octavia*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:

- *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username

- Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.octavia.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.octavia.username
 - Type: string
 - Description:
 - *octavia*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */octavia*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:

- *password*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.octavia.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.octavia.username
 - Type: string
 - Description:
 - *octavia*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */octavia*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme

- Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - 2
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:

- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.octavia_api
 - Type: string
 - Description:
 - *docker.io/loci/octavia:master-ubuntu*
- images.tags.octavia_db_sync
 - Type: string
 - Description:
 - *docker.io/loci/octavia:master-ubuntu*
- images.tags.octavia_health_manager

- Type: string
 - Description:
 - *docker.io/loci/octavia:master-ubuntu*
- images.tags.octavia_health_manager_init
 - Type: string
 - Description:
 - *docker.io/kolla/ubuntu-source-octavia-health-manager:rocky*
- images.tags.octavia_housekeeping
 - Type: string
 - Description:
 - *docker.io/loci/octavia:master-ubuntu*
- images.tags.octavia_worker
 - Type: string
 - Description:
 - *docker.io/loci/octavia:master-ubuntu*
- images.tags.openvswitch_vswitchd
 - Type: string
 - Description:
 - *docker.io/kolla/centos-source-openvswitch-vswitchd:rocky*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.test
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:

- *enabled*
- labels.health_manager.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.health_manager.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.housekeeping.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.housekeeping.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.worker.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.worker.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin

- Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.daemonset_health_manager
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_housekeeping
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_worker
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:

- *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api

- Type: bool
 - Description:
 - *true*
- manifests.pod_rally_test
 - Type: bool
 - Description:
 - *false*
- manifests.secret_credential_keys
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:

- *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30826*
- network_policy.octavia.ingress[0]

- Type: object
 - Description:
 - *{}*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.daemonsets.health_manager.enabled
 - Type: bool
 - Description:
 - *true*
- pod.lifecycle.upgrades.daemonsets.health_manager.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.lifecycle.upgrades.daemonsets.health_manager.min_ready_seconds
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.upgrades.daemonsets.pod_replacement_strategy
 - Type: string
 - Description:

- *RollingUpdate*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - 1
- pod.mounts.octavia_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_api.octavia_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_api.octavia_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_bootstrap.octavia_bootstrap.volumeMounts

- Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_bootstrap.octavia_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_health_manager.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_health_manager.octavia_health_manager.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_health_manager.octavia_health_manager.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_housekeeping.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_housekeeping.octavia_housekeeping.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_housekeeping.octavia_housekeeping.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_worker.init_container
 - Type: string
 - Description:

- *nil*
- pod.mounts.octavia_worker.octavia_worker.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.octavia_worker.octavia_worker.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.housekeeping
 - Type: int
 - Description:
 - *1*
- pod.replicas.worker
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.health_manager.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.health_manager.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.health_manager.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.health_manager.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.housekeeping.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.housekeeping.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.housekeeping.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.housekeeping.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:

- *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.worker.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.worker.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.worker.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.worker.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.user.octavia.uid
 - Type: int
 - Description:
 - *42424*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *octavia-keystone-admin*
- secrets.identity.octavia
 - Type: string
 - Description:
 - *octavia-keystone-user*
- secrets.identity.test
 - Type: string
 - Description:
 - *octavia-keystone-test*
- secrets.oci_image_registry.octavia
 - Type: string
 - Description:

- *octavia-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *octavia-db-admin*
- secrets.oslo_db.octavia
 - Type: string
 - Description:
 - *octavia-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *octavia-rabbitmq-admin*
- secrets.oslo_messaging.octavia
 - Type: string
 - Description:
 - *octavia-rabbitmq-user*
- secrets.tls.load_balancer.api.public
 - Type: string
 - Description:
 - *octavia-tls-public*

3.20 Openstack

There are various customizations you can do to tailor the deployment of OpenStack Openstack. You can find those below.

3.20.1 General Parameters

- glance.enabled
 - Type: bool
 - Description:
 - *true*
- glance.helm3_hook
 - Type: bool
 - Description:
 - *false*

- glance.release_group
 - Type: string
 - Description:
 - *glance*
- global.subchart_release_name
 - Type: bool
 - Description:
 - *true*
- heat.enabled
 - Type: bool
 - Description:
 - *true*
- heat.helm3_hook
 - Type: bool
 - Description:
 - *false*
- heat.release_group
 - Type: string
 - Description:
 - *heat*
- helm-toolkit.enabled
 - Type: bool
 - Description:
 - *true*
- horizon.enabled
 - Type: bool
 - Description:
 - *false*
- horizon.helm3_hook
 - Type: bool
 - Description:
 - *false*
- horizon.release_group
 - Type: string

- Description:
 - *horizon*
- keystone.enabled
 - Type: bool
 - Description:
 - *true*
- keystone.release_group
 - Type: string
 - Description:
 - *keystone*
- libvirt.enabled
 - Type: bool
 - Description:
 - *true*
- libvirt.release_group
 - Type: string
 - Description:
 - *libvirt*
- mariadb.enabled
 - Type: bool
 - Description:
 - *true*
- mariadb.pod.replicas.server
 - Type: int
 - Description:
 - *1*
- mariadb.release_group
 - Type: string
 - Description:
 - *mariadb*
- memcached.enabled
 - Type: bool
 - Description:
 - *true*

- memcached.release_group
 - Type: string
 - Description:
 - *memcached*
- neutron.conf.auto_bridge_add.br-ex
 - Type: string
 - Description:
 - *null*
- neutron.enabled
 - Type: bool
 - Description:
 - *true*
- neutron.helm3_hook
 - Type: bool
 - Description:
 - *false*
- neutron.release_group
 - Type: string
 - Description:
 - *neutron*
- nova.enabled
 - Type: bool
 - Description:
 - *true*
- nova.helm3_hook
 - Type: bool
 - Description:
 - *false*
- nova.release_group
 - Type: string
 - Description:
 - *nova*
- openvswitch.enabled
 - Type: bool

- Description:
 - *true*
- openvswitch.release_group
 - Type: string
 - Description:
 - *openvswitch*
- placement.enabled
 - Type: bool
 - Description:
 - *true*
- placement.helm3_hook
 - Type: bool
 - Description:
 - *false*
- placement.release_group
 - Type: string
 - Description:
 - *placement*
- rabbitmq.enabled
 - Type: bool
 - Description:
 - *true*
- rabbitmq.pod.replicas.server
 - Type: int
 - Description:
 - *1*
- rabbitmq.release_group
 - Type: string
 - Description:
 - *rabbitmq*

3.21 Placement

There are various customizations you can do to tailor the deployment of OpenStack Placement. You can find those below.

3.21.1 General Parameters

- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - *()*
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`

- Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - (*sys.stderr,*)
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - (*sys.stdout,*)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:

- *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`

- Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_boto.qualname
 - Type: string
 - Description:
 - *boto*
- conf.logging.logger_eventletwsgi.handlers
 - Type: string
 - Description:
 - *stderr*
- conf.logging.logger_eventletwsgi.level
 - Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_eventletwsgi.qualname
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- conf.logging.logger_placement.handlers[0]
 - Type: string
 - Description:
 - *stdout*
- conf.logging.logger_placement.level
 - Type: string
 - Description:
 - *INFO*
- conf.logging.logger_placement.qualname
 - Type: string
 - Description:
 - *placement*
- conf.logging.logger_root.handlers
 - Type: string
 - Description:

- *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *placement*
- `conf.placement.DEFAULT.debug`
 - Type: bool
 - Description:
 - *false*
- `conf.placement.DEFAULT.log_config_append`
 - Type: string
 - Description:
 - */etc/placement/logging.conf*
- `conf.placement.DEFAULT.use_syslog`

- Type: bool
 - Description:
 - *false*
- conf.placement.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.placement.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.placement.keystone_authtoken.memcache_security_strategy
 - Type: string
 - Description:
 - *ENCRYPT*
- conf.placement.keystone_authtoken.service_token_roles
 - Type: string
 - Description:
 - *service*
- conf.placement.keystone_authtoken.service_token_roles_required
 - Type: bool
 - Description:
 - *true*
- conf.placement.keystone_authtoken.service_type
 - Type: string
 - Description:
 - *placement*
- conf.placement.placement_database.connection
 - Type: string
 - Description:
 - *nil*
- conf.placement_api_uwsgi.uwsgi.add-header
 - Type: string
 - Description:

- *Connection: close*
- `conf.placement_api_uwsgi.uwsgi.buffer-size`
 - Type: int
 - Description:
 - *65535*
- `conf.placement_api_uwsgi.uwsgi.die-on-term`
 - Type: bool
 - Description:
 - *true*
- `conf.placement_api_uwsgi.uwsgi.enable-threads`
 - Type: bool
 - Description:
 - *true*
- `conf.placement_api_uwsgi.uwsgi.exit-on-reload`
 - Type: bool
 - Description:
 - *false*
- `conf.placement_api_uwsgi.uwsgi.hook-master-start`
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- `conf.placement_api_uwsgi.uwsgi.lazy-apps`
 - Type: bool
 - Description:
 - *true*
- `conf.placement_api_uwsgi.uwsgi.log-x-forwarded-for`
 - Type: bool
 - Description:
 - *true*
- `conf.placement_api_uwsgi.uwsgi.master`
 - Type: bool
 - Description:
 - *true*
- `conf.placement_api_uwsgi.uwsgi.processes`

- Type: int
 - Description:
 - *1*
- conf.placement_api_uwsgi.uwsgi.procname-prefix-spaced
 - Type: string
 - Description:
 - *placement-api:*
- conf.placement_api_uwsgi.uwsgi.route-user-agent
 - Type: string
 - Description:
 - *^kube-probe.* donotlog:*
- conf.placement_api_uwsgi.uwsgi.thunder-lock
 - Type: bool
 - Description:
 - *true*
- conf.placement_api_uwsgi.uwsgi.worker-reload-mercy
 - Type: int
 - Description:
 - *80*
- conf.placement_api_uwsgi.uwsgi.wsgi-file
 - Type: string
 - Description:
 - */var/lib/openstack/bin/placement-api*
- conf.policy
 - Type: object
 - Description:
 - *{}*
- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:

- *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *placement-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *placement-ks-service*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *placement-ks-user*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *placement-ks-endpoints*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service

- Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *placement-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *placement-ks-user*
- dependencies.static.ks_endpoints.jobs[1]
 - Type: string
 - Description:
 - *placement-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name

- Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.placement.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.placement.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.placement.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.placement.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.placement.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.placement.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.placement.username
 - Type: string
 - Description:

- *placement*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default

- Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.placement.password
 - Type: string
 - Description:

- *password*
- endpoints.oci_image_registry.auth.placement.username
 - Type: string
 - Description:
 - *placement*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default

- Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *mariadb-tls-direct*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.nova_api.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.nova_api.username
 - Type: string
 - Description:
 - *nova*
- endpoints.oslo_db.auth.placement.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.placement.username
 - Type: string
 - Description:

- *placement*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */placement*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.placement.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.placement.hosts.default
 - Type: string
 - Description:
 - *placement-api*
- endpoints.placement.hosts.public
 - Type: string
 - Description:
 - *placement*
- endpoints.placement.name

- Type: string
 - Description:
 - *placement*
- endpoints.placement.path.default
 - Type: string
 - Description:
 - /
- endpoints.placement.port.api.default
 - Type: int
 - Description:
 - 8778
- endpoints.placement.port.api.public
 - Type: int
 - Description:
 - 80
- endpoints.placement.port.api.service
 - Type: int
 - Description:
 - 8778
- endpoints.placement.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.placement.scheme.service
 - Type: string
 - Description:
 - *http*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:

- *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service

- Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.placement
 - Type: string
 - Description:
 - *quay.io/airshipit/placement:2024.1-ubuntu_jammy*
- images.tags.placement_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/placement:2024.1-ubuntu_jammy*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.certificates
 - Type: bool
 - Description:

- *false*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.deployment
 - Type: bool
 - Description:
 - *true*
- manifests.ingress
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints

- Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_ingress_tls
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:

- *true*
- manifests.service
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress
 - Type: bool
 - Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port

- Type: int
 - Description:
 - 30778
- network.api.port
 - Type: int
 - Description:
 - 8778
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - 0
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - 30
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:

- 3
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.placement.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.placement.placement.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.placement.placement.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.security_context.placement.container.placement_api.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *false*
- pod.security_context.placement.container.placement_api.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.placement.container.placement_mysql_migration.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *false*
- pod.security_context.placement.container.placement_mysql_migration.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.placement.pod.runAsUser
 - Type: int
 - Description:
 - *42424*
- pod.tolerations.placement.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.placement.tolerations[0].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.placement.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.placement.tolerations[0].operator

- Type: string
 - Description:
 - *Exists*
- pod.tolerations.placement.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.placement.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.placement.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *placement-keystone-admin*
- secrets.identity.placement
 - Type: string
 - Description:
 - *placement-keystone-user*
- secrets.oci_image_registry.placement
 - Type: string
 - Description:
 - *placement-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:

- *placement-db-admin*
- secrets.oslo_db.placement
 - Type: string
 - Description:
 - *placement-db-user*
- secrets.tls.placement.api.internal
 - Type: string
 - Description:
 - *placement-tls-api*
- secrets.tls.placement.api.public
 - Type: string
 - Description:
 - *placement-tls-public*
- tls.identity
 - Type: bool
 - Description:
 - *false*
- tls.oslo_db
 - Type: bool
 - Description:
 - *false*
- tls.oslo_messaging
 - Type: bool
 - Description:
 - *false*

3.22 Rally

There are various customizations you can do to tailor the deployment of OpenStack Rally. You can find those below.

3.22.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *false*

- bootstrap.script
 - Type: string
 - Description:
 - `openstack token issue`
- conf.rally.database.connection
 - Type: string
 - Description:
 - *nil*
- conf.rally.keystone_authtoken.auth_type
 - Type: string
 - Description:
 - *password*
- conf.rally.keystone_authtoken.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.rally.rally_api.bind_port
 - Type: int
 - Description:
 - *9312*
- conf.rally_tasks.authenticate_task.Authenticate.keystone[0].context.users.tenants
 - Type: int
 - Description:
 - *3*
- conf.rally_tasks.authenticate_task.Authenticate.keystone[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - *50*
- conf.rally_tasks.authenticate_task.Authenticate.keystone[0].runner.concurrency
 - Type: int
 - Description:
 - *5*
- conf.rally_tasks.authenticate_task.Authenticate.keystone[0].runner.times
 - Type: int

- Description:
 - *100*
- `conf.rally_tasks.authenticate_task.Authenticate.keystone[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_cinder[0].args.repetitions`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_cinder[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_cinder[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_cinder[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_cinder[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_cinder[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_glance[0].args.repetitions`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.authenticate_task.Authenticate.validate_glance[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.authenticate_task.Authenticate.validate_glance[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_glance[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_glance[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.authenticate_task.Authenticate.validate_glance[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_heat[0].args.repetitions`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.authenticate_task.Authenticate.validate_heat[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.authenticate_task.Authenticate.validate_heat[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_heat[0].runner.concurrency`
 - Type: int

- Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_heat[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.authenticate_task.Authenticate.validate_heat[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.authenticate_task.Authenticate.validate_neutron[0].args.repetitions`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.authenticate_task.Authenticate.validate_neutron[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.authenticate_task.Authenticate.validate_neutron[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_neutron[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_neutron[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.authenticate_task.Authenticate.validate_neutron[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.authenticate_task.Authenticate.validate_nova[0].args.repetitions`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.authenticate_task.Authenticate.validate_nova[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.authenticate_task.Authenticate.validate_nova[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_nova[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.authenticate_task.Authenticate.validate_nova[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.authenticate_task.Authenticate.validate_nova[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.insufficient_data_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.meter_name`
 - Type: string

- Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].runner.times`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.insufficient_data_action`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.state`
 - Type: string
 - Description:
 - *ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].args.type`
 - Type: string

- Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_alarm_and_get_history[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.insufficient_data_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*

- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_delete_alarm[0].runner.type`
 - Type: string

- Description:
- *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.insufficient_data_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_get_alarm[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.insufficient_data_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.ok_actions[0]`
 - Type: string

- Description:
- *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_list_alarm[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.insufficient_data_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].runner.times
 - Type: int
 - Description:
 - 10
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.create_and_update_alarm[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.list_alarms[0].context.users.tenants
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.list_alarms[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.list_alarms[0].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.list_alarms[0].runner.times
 - Type: int
 - Description:
 - 10
- conf.rally_tasks.ceilometer_task.CeilometerAlarms.list_alarms[0].runner.type
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_get_event[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_get_event[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_get_event[0].runner.concurrency`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_get_event[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_get_event[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_event_types[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_event_types[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_event_types[0].runner.concurrency`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_event_types[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_event_types[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_events[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_events[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_events[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_events[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerEvents.create_user_and_list_events[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].args.filter_by_project_id`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].args.filter_by_resource_id`
 - Type: bool
 - Description:
 - *true*

- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].args.filter_by_user_id`
 - Type: `bool`
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].args.limit`
 - Type: `int`
 - Description:
 - *50*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].args.metadata_query.status`
 - Type: `string`
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.counter_name`
 - Type: `string`
 - Description:
 - *benchmark_meter*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.counter_type`
 - Type: `string`
 - Description:
 - *gauge*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.counter_unit`
 - Type: `string`
 - Description:
 - *%*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.counter_volume`
 - Type: `int`
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.metadata_list[0].name`
 - Type: `string`
 - Description:
 - *false*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.metadata_list[0].namespace`
 - Type: `string`

- Description:
 - *rally benchmark on*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.metadata_list[0].sta`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.metadata_list[1].de`
 - Type: string
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.metadata_list[1].na`
 - Type: string
 - Description:
 - *rally benchmark off*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.metadata_list[1].sta`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.resources_per_tena`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.samples_per_resou`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.ceilometer.timestamp_interval`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].context.users.users_per_tenant`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].runner.concurrency`
 - Type: `int`
 - Description:
 - `1`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].runner.times`
 - Type: `int`
 - Description:
 - `10`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_matched_meters[0].runner.type`
 - Type: `string`
 - Description:
 - `constant`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].args.limit`
 - Type: `int`
 - Description:
 - `50`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].args.metadata_query.status`
 - Type: `string`
 - Description:
 - `terminated`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.counter_name`
 - Type: `string`
 - Description:
 - `benchmark_meter`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.counter_type`
 - Type: `string`
 - Description:
 - `gauge`
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.counter_unit`
 - Type: `string`

- Description:
- %
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.counter_volume
 - Type: int
 - Description:
 - 100
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[0].deleted
 - Type: string
 - Description:
 - *false*
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[0].name
 - Type: string
 - Description:
 - *rally benchmark on*
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[0].status
 - Type: string
 - Description:
 - *active*
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[1].deleted
 - Type: string
 - Description:
 - *true*
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[1].name
 - Type: string
 - Description:
 - *rally benchmark off*
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.metadata_list[1].status
 - Type: string
 - Description:
 - *terminated*
- conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.resources_per_tenant
 - Type: int
 - Description:
 - 100

- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.samples_per_resource`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.ceilometer.timestamp_interval`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerMeters.list_meters[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.insufficient_data_ac`
 - Type: string

- Description:
- *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.limit`
 - Type: string
 - Description:
 - *nil*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.orderby`
 - Type: string
 - Description:
 - *nil*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].context.users.users_per_`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].runner.concurrency`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].runner.times`
 - Type: int
 - Description:
 - 100
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarm_history[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.alarm_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/alarm*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.filter.and[0].!=.state`
 - Type: string
 - Description:
 - *dummy_state*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.filter.and[1].=.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.insufficient_data_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/notok*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.limit`
 - Type: int

- Description:
- *10*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.meter_name`
 - Type: string
 - Description:
 - *ram_util*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.ok_actions[0]`
 - Type: string
 - Description:
 - *http://localhost:8776/ok*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.orderby`
 - Type: string
 - Description:
 - *nil*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.statistic`
 - Type: string
 - Description:
 - *avg*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.threshold`
 - Type: float
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].args.type`
 - Type: string
 - Description:
 - *threshold*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_alarms[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.counter_name`
 - Type: string
 - Description:
 - *cpu_util*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.counter_type`
 - Type: string
 - Description:
 - *gauge*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.counter_unit`
 - Type: string
 - Description:
 - *instance*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.counter_volume`
 - Type: float
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.filter.=.counter_unit`
 - Type: string
 - Description:
 - *instance*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.limit`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.orderby`
 - Type: string
 - Description:
 - *nil*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].args.resource_id`
 - Type: string
 - Description:
 - *resource_id*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerQueries.create_and_query_samples[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].context.ceilometer.counter_name`
 - Type: string
 - Description:
 - *cpu_util*

- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].context.ceilometer.counter_type`
 - Type: string
 - Description:
 - *gauge*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].context.ceilometer.counter_unit`
 - Type: string
 - Description:
 - *instance*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].context.ceilometer.counter_volume`
 - Type: float
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.get_tenant_resources[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].args.filter_by_project_id`
 - Type: bool

- Description:
- *true*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].args.filter_by_user_id`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].args.limit`
 - Type: int
 - Description:
 - *50*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].args.metadata_query.status`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.counter_name`
 - Type: string
 - Description:
 - *benchmark_meter*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.counter_type`
 - Type: string
 - Description:
 - *gauge*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.counter_unit`
 - Type: string
 - Description:
 - *%*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.counter_volun`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.metadata_list[`
 - Type: string
 - Description:
 - *false*

- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.metadata_list[0]`
 - Type: string
 - Description:
 - *rally benchmark on*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.metadata_list[1]`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.metadata_list[2]`
 - Type: string
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.metadata_list[3]`
 - Type: string
 - Description:
 - *rally benchmark off*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.metadata_list[4]`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.resources_per_second`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.samples_per_second`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.ceilometer.timestamp_interval`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.users.tenants`
 - Type: int

- Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].runner.concurrency
 - Type: int
 - Description:
 - 1
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].runner.times
 - Type: int
 - Description:
 - 10
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_matched_resources[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].args.limit
 - Type: int
 - Description:
 - 50
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].args.metadata_query.status
 - Type: string
 - Description:
 - *terminated*
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.counter_name
 - Type: string
 - Description:
 - *benchmark_meter*
- conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.counter_type
 - Type: string
 - Description:
 - *gauge*

- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.counter_unit`
 - Type: string
 - Description:
 - %
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.counter_volume`
 - Type: int
 - Description:
 - 100
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.metadata_list[0].deleted`
 - Type: string
 - Description:
 - *false*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.metadata_list[0].name`
 - Type: string
 - Description:
 - *rally benchmark on*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.metadata_list[0].status`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.metadata_list[1].deleted`
 - Type: string
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.metadata_list[1].name`
 - Type: string
 - Description:
 - *rally benchmark off*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.metadata_list[1].status`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.resources_per_tenant`
 - Type: int

- Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.samples_per_resource`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.ceilometer.timestamp_interval`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerResource.list_resources[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].args.filter_by_project_id`
 - Type: bool
 - Description:
 - *true*

- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].args.filter_by_resource_id`
 - Type: `bool`
 - Description:
 - `true`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].args.filter_by_user_id`
 - Type: `bool`
 - Description:
 - `true`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].args.limit`
 - Type: `int`
 - Description:
 - `50`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].args.metadata_query.status`
 - Type: `string`
 - Description:
 - `not_active`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.counter_name`
 - Type: `string`
 - Description:
 - `cpu_util`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.counter_type`
 - Type: `string`
 - Description:
 - `gauge`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.counter_unit`
 - Type: `string`
 - Description:
 - `instance`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.counter_volume`
 - Type: `float`
 - Description:
 - `1`
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[0]`
 - Type: `string`

- Description:
- *2015-09-04T12:34:19.000000*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[0]`
 - Type: string
 - Description:
 - *False*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[0]`
 - Type: string
 - Description:
 - *fake_resource*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[0]`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[1]`
 - Type: string
 - Description:
 - *2015-09-10T06:55:12.000000*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[1]`
 - Type: string
 - Description:
 - *False*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[1]`
 - Type: string
 - Description:
 - *fake_resource_1*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.metadata_list[1]`
 - Type: string
 - Description:
 - *not_active*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.resources_per_t`
 - Type: int
 - Description:
 - *100*

- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.samples_per_re`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.ceilometer.timestamp_inter`
 - Type: int
 - Description:
 - *60*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_matched_samples[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].args.limit`
 - Type: int
 - Description:
 - *50*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].args.metadata_query.status`
 - Type: string

- Description:
- *not_active*
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.batch_size
 - Type: int
 - Description:
 - 5
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.counter_name
 - Type: string
 - Description:
 - *cpu_util*
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.counter_type
 - Type: string
 - Description:
 - *gauge*
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.counter_unit
 - Type: string
 - Description:
 - *instance*
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.counter_volume
 - Type: float
 - Description:
 - 1
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[0].created_at
 - Type: string
 - Description:
 - *2015-09-04T12:34:19.000000*
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[0].deleted
 - Type: string
 - Description:
 - *False*
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[0].name
 - Type: string
 - Description:
 - *fake_resource*

- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[0].status`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[1].created_at`
 - Type: string
 - Description:
 - *2015-09-10T06:55:12.000000*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[1].deleted`
 - Type: string
 - Description:
 - *False*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[1].name`
 - Type: string
 - Description:
 - *fake_resource_1*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.metadata_list[1].status`
 - Type: string
 - Description:
 - *not_active*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.resources_per_tenant`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.samples_per_resource`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.ceilometer.timestamp_interval`
 - Type: int
 - Description:
 - *60*
- `conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.users.tenants`
 - Type: int

- Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].runner.concurrency
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].runner.times
 - Type: int
 - Description:
 - 10
- conf.rally_tasks.ceilometer_task.CeilometerSamples.list_samples[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].args.counter_type
 - Type: string
 - Description:
 - *cumulative*
- conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].args.counter_unit
 - Type: string
 - Description:
 -
- conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].args.counter_volume
 - Type: float
 - Description:
 - 1
- conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].args.resource_id
 - Type: string
 - Description:
 - *resource-id*

- `conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].args.user_id`
 - Type: string
 - Description:
 - *user-id*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].runner.times`
 - Type: int
 - Description:
 - 200
- `conf.rally_tasks.ceilometer_task.CeilometerStats.create_meter_and_get_stats[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.filter_by_project_id`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.filter_by_resource_id`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.filter_by_user_id`
 - Type: bool

- Description:
- *true*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.groupby`
 - Type: string
 - Description:
 - *resource_id*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.metadata_query.status`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.meter_name`
 - Type: string
 - Description:
 - *benchmark_meter*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].args.period`
 - Type: int
 - Description:
 - *300*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.counter_name`
 - Type: string
 - Description:
 - *benchmark_meter*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.counter_type`
 - Type: string
 - Description:
 - *gauge*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.counter_unit`
 - Type: string
 - Description:
 - *%*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.counter_volume`
 - Type: int
 - Description:
 - *100*

- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.metadata_list[0].deleted`
 - Type: string
 - Description:
 - *false*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.metadata_list[0].name`
 - Type: string
 - Description:
 - *rally benchmark on*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.metadata_list[0].status`
 - Type: string
 - Description:
 - *active*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.metadata_list[1].deleted`
 - Type: string
 - Description:
 - *true*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.metadata_list[1].name`
 - Type: string
 - Description:
 - *rally benchmark off*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.metadata_list[1].status`
 - Type: string
 - Description:
 - *terminated*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.resources_per_tenant`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.samples_per_resource`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.ceilometer.timestamp_interval`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.ceilometer_task.CeilometerStats.get_stats[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_trait_descriptions[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_trait_descriptions[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_trait_descriptions[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_trait_descriptions[0].runner.times`
 - Type: `int`
 - Description:
 - `10`
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_trait_descriptions[0].runner.type`
 - Type: `string`
 - Description:
 - `constant`
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_traits[0].context.users.tenants`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_traits[0].context.users.users_per_tenant`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_traits[0].runner.concurrency`
 - Type: `int`
 - Description:
 - `10`
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_traits[0].runner.times`
 - Type: `int`
 - Description:
 - `10`
- `conf.rally_tasks.ceilometer_task.CeilometerTraits.create_user_and_list_traits[0].runner.type`
 - Type: `string`
 - Description:
 - `constant`
- `conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].args.create_backup_k`
 - Type: `object`
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].args.create_volume_k`
 - Type: `object`

- Description:
- {}
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].args.size
 - Type: int
 - Description:
 - 1
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].context.roles[0]
 - Type: string
 - Description:
 - *admin*
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].context.users.tenants
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].context.users.users_p
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].runner.concurrency
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].runner.times
 - Type: int
 - Description:
 - 5
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.cinder_task.CinderVolumeBackups.create_incremental_volume_backup[0].sla.failure_rate.max
 - Type: int
 - Description:
 - 0

- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_delete_volume_type[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].args.specs.cipher`
 - Type: string
 - Description:
 - *aes-xts-plain64*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].args.specs.control_location`
 - Type: string

- Description:
- *front-end*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].args.specs.key_size`
 - Type: int
 - Description:
 - *512*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].args.specs.provider`
 - Type: string
 - Description:
 - *LuksEncryptor*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].runner.times`
 - Type: int
 - Description:
 - *4*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_and_list_encryption_type[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*

- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].args.specs.cipher`
 - Type: string
 - Description:
 - *aes-xts-plain64*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].args.specs.control`
 - Type: string
 - Description:
 - *front-end*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].args.specs.key_size`
 - Type: int
 - Description:
 - *512*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].args.specs.provider`
 - Type: string
 - Description:
 - *LuksEncryptor*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].context.users.users`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].runner.times`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].runner.type`
 - Type: string

- Description:
- *constant*
- `conf.rally_tasks.cinder_task.CinderVolumeTypes.create_volume_type_and_encryption_type[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].args.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_accept_transfer[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].args.create_volume_params.availability`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].args.size`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.images.images_per_tenant`
 - Type: int

- Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].runner.times`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].args.create_volume_params.availability`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].args.size.max`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].args.size.min`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.images.images_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].context.users.users_per_tenant`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_attach_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].args.force`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].context.volumes.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].runner.concurrency`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_snapshot[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].args.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.images.images_per_tenant`
 - Type: int

- Description:
 - 1
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.users.tenants
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].runner.concurrency
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].runner.times
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_delete_volume[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].args.new_size
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].args.size
 - Type: int
 - Description:
 - 1
- conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].context.users.tenants
 - Type: int
 - Description:
 - 1

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].args.new_size.max`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].args.new_size.min`
 - Type: int
 - Description:
 - 6
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].args.size.max`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].args.size.min`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].context.users.tenants`
 - Type: int

- Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_extend_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].args.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].args.size.max`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].args.size.min`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].runner.times`
 - Type: int

- Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_get_volume[1].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].args.force`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].context.users.tenants`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].context.volumes.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].runner.concurrency`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_snapshots[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].args.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].context.users.tenants`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[0].runner.type`
 - Type: string

- Description:
- *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].args.size.max`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].args.size.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].runner.times`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].args.create_backup_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].args.create_volume_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].args.detailed`
 - Type: bool
 - Description:
 - `true`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].args.do_delete`
 - Type: bool
 - Description:
 - `true`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].args.size`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].context.roles[0]`
 - Type: string
 - Description:
 - `member`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].context.users.tenants`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].runner.concurrency`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_list_volume_backups[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].args.create_backup_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].args.create_volume_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].args.do_delete`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].args.size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].context.roles[0]`
 - Type: string
 - Description:
 - *member*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].runner.times`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_restore_volume_backup[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].args.create_volume_kwargs`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].args.size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].args.update_volume_kwargs.display_name`
 - Type: string
 - Description:
 - *desc_updated*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].args.update_volume_kwargs.display_name_prefix`
 - Type: string
 - Description:
 - *name_updated*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].context.users.tenants`
 - Type: int

- Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].runner.times`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_update_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].args.container_format`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].args.disk_format`
 - Type: string
 - Description:
 - *raw*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].args.do_delete`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].args.force`
 - Type: bool
 - Description:
 - *false*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].args.size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].runner.times`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.container_format`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.disk_format`
 - Type: string

- Description:
- *raw*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.do_delete`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.force`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.size.max`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].args.size.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.images.image_cont`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.images.image_url`
 - Type: string
 - Description:
 - `http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.images.images_per`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.users.tenants`
 - Type: int
 - Description:
 - `2`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].context.users.users_per_ten`
 - Type: int
 - Description:
 - `2`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].runner.concurrency`
 - Type: int
 - Description:
 - `2`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].runner.times`
 - Type: int
 - Description:
 - `3`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_and_upload_volume_to_image[1].runner.type`
 - Type: string
 - Description:
 - `constant`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].args.size`
 - Type: int
 - Description:
 - `1`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].context.users.tenants`
 - Type: int

- Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].context.users.users_per`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].context.volumes.size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].runner.times`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].args.size.max`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].args.size.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].context.users.tenants`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].context.users.users_per`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].context.volumes.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_from_volume_and_delete_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].args.nested_level`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].args.size.max`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].args.size.min`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.images.imag`
 - Type: string

- Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.images.image`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.images.image`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.images.image`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.images.image`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.servers.flavor`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.servers.image`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.servers.server`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.users.tenant`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].context.users.users_`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_nested_snapshots_and_attach_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].args.size.max`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].args.size.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].args.volume_type`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.images.image_contain`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.images.image_name`
 - Type: string

- Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.servers.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.servers.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.servers.servers_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].runner.times`
 - Type: int
 - Description:
 - 4
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].args.size.max`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].args.size.min`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].args.volume_type`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.images.image_content`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.images.image_type`
 - Type: string

- Description:
 - *qcow2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.images.images_per_t`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.servers.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.servers.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.servers.servers_per_t`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].context.users.users_per_tena`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].runner.concurrency`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].runner.times`
 - Type: int
 - Description:
 - 4
- `conf.rally_tasks.cinder_task.CinderVolumes.create_snapshot_and_attach_volume[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[0].args.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].args.nested_level`
 - Type: int

- Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].args.size.max`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].args.size.min`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_clone[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].args.read_only`
 - Type: bool
 - Description:
 - *true*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].args.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].context.users.users_per`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_and_update_readonly_flag[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].args.create_backup_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].args.create_volume_kwargs`
 - Type: object

- Description:
- *{}*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].args.do_delete`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].args.size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].context.roles[0]`
 - Type: string
 - Description:
 - *member*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].runner.times`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_backup[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].args.do_delete`
 - Type: `bool`
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].context.users.tenants`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].context.users.users_per_tenant`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].context.volumes.size`
 - Type: `int`
 - Description:
 - `1`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].runner.concurrency`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].runner.times`
 - Type: `int`
 - Description:
 - `3`
- `conf.rally_tasks.cinder_task.CinderVolumes.create_volume_from_snapshot[0].runner.type`
 - Type: `string`
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].args.detailed`
 - Type: `bool`
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].context.users.tenants`
 - Type: `int`

- Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.list_transfers[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].args.is_public`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 3

- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.list_types[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].context.users.tenants`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].context.volumes.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].context.volumes.volumes_per_tenant`
 - Type: int

- Description:
 - 4
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].runner.concurrency`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].runner.times`
 - Type: int
 - Description:
 - 100
- `conf.rally_tasks.cinder_task.CinderVolumes.list_volumes[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].context.volumes.size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].runner.concurrency`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.cinder_task.CinderVolumes.modify_volume_metadata[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].args.container_format`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].args.disk_format`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].args.image_location`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.3.4/cirros-0.3.4-x86_64-disk.img*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_delete_image[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].args.container_format`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].args.disk_format`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].args.image_location`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.3.4/cirros-0.3.4-x86_64-disk.img*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].runner.times`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.glance_task.GlanceImages.create_and_list_image[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].args.container_format`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].args.disk_format`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].args.image_location`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.3.4/cirros-0.3.4-x86_64-disk.img*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].args.number_instances`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].runner.concurrency`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.glance_task.GlanceImages.create_image_and_boot_instances[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.3.4/cirros-0.3.4-x86_64-disk.img*
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - 4
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.glance_task.GlanceImages.list_images[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_delete_stack[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/server-with-ports.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_delete_stack[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_delete_stack[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_delete_stack[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_delete_stack[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_delete_stack[0].runner.type`
 - Type: string

- Description:
- *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_list_stack[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/default.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_list_stack[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_list_stack[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_list_stack[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_list_stack[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.heat_task.HeatStacks.create_and_list_stack[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_check_delete_stack[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/random-strings.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_check_delete_stack[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.heat_task.HeatStacks.create_check_delete_stack[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.heat_task.HeatStacks.create_check_delete_stack[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_check_delete_stack[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.heat_task.HeatStacks.create_check_delete_stack[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_snapshot_restore_delete_stack[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/random-strings.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_snapshot_restore_delete_stack[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.heat_task.HeatStacks.create_snapshot_restore_delete_stack[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_snapshot_restore_delete_stack[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_snapshot_restore_delete_stack[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.heat_task.HeatStacks.create_snapshot_restore_delete_stack[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/resource-group-with-outputs.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output[0].runner.times`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output_via_API[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/resource-group-with-outputs.yaml*

- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output_via_API[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output_via_API[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output_via_API[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output_via_API[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_list_output_via_API[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].args.delta`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].args.output_key`
 - Type: string
 - Description:
 - *scaling_url*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/autoscaling-group.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].context.users.tenants`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].runner.times`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_scale[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].args.output_key`
 - Type: string
 - Description:
 - *val1*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/resource-group-with-outputs.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].args.output_key`
 - Type: string
 - Description:
 - *val1*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/resource-group-with-outputs.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].runner.concurrency`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].runner.times`
 - Type: int

- Description:
- 5
- `conf.rally_tasks.heat_task.HeatStacks.create_stack_and_show_output_via_API[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_suspend_resume_delete_stack[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/random-strings.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_suspend_resume_delete_stack[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.heat_task.HeatStacks.create_suspend_resume_delete_stack[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_suspend_resume_delete_stack[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_suspend_resume_delete_stack[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.heat_task.HeatStacks.create_suspend_resume_delete_stack[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].args.template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/resource-group.yaml*

- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].args.updated_template_path`
 - Type: string
 - Description:
 - */tmp/tasks/test-templates/updated-resource-group-reduce.yaml*
- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.heat_task.HeatStacks.create_update_delete_stack[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].context.stacks.resources_per_stack`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].context.stacks.stacks_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].context.users.tenants`
 - Type: int

- Description:
 - *1*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].runner.times
 - Type: int
 - Description:
 - *10*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_events[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].context.stacks.resources_per_stack
 - Type: int
 - Description:
 - *10*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].context.stacks.stacks_per_tenant
 - Type: int
 - Description:
 - *2*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].context.users.tenants
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.heat_task.HeatStacks.list_stacks_and_resources[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.heat_tests.autoscaling_group.heat_template_version`
 - Type: string
 - Description:
 - *2013-05-23*
- `conf.rally_tasks.heat_tests.autoscaling_group.outputs.scaling_url.value.get_attr[0]`
 - Type: string
 - Description:
 - *scaling_policy*
- `conf.rally_tasks.heat_tests.autoscaling_group.outputs.scaling_url.value.get_attr[1]`
 - Type: string
 - Description:
 - *alarm_url*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.flavor.constraints[0].custom_constraint`
 - Type: string
 - Description:
 - *nova.flavor*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.flavor.default`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.flavor.type`
 - Type: string

- Description:
 - *string*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.image.constraints[0].custom_constraint`
 - Type: `string`
 - Description:
 - *glance.image*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.image.default`
 - Type: `string`
 - Description:
 - *cirros-0.3.4-x86_64-uec*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.image.type`
 - Type: `string`
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.max_size.constraints[0].range.min`
 - Type: `int`
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.max_size.default`
 - Type: `int`
 - Description:
 - *5*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.max_size.type`
 - Type: `string`
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.scaling_adjustment.default`
 - Type: `int`
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.autoscaling_group.parameters.scaling_adjustment.type`
 - Type: `string`
 - Description:
 - *number*

- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.properties.desired_capacity`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.properties.max_size.get_param`
 - Type: string
 - Description:
 - *max_size*
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.properties.min_size`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.properties.resource.properties.flavor.get_param`
 - Type: string
 - Description:
 - *flavor*
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.properties.resource.properties.image.get_param`
 - Type: string
 - Description:
 - *image*
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.properties.resource.type`
 - Type: string
 - Description:
 - *OS::Nova::Server*
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.asg.type`
 - Type: string
 - Description:
 - *OS::Heat::AutoScalingGroup*
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.scaling_policy.properties.adjustment_type`
 - Type: string
 - Description:
 - *change_in_capacity*
- `conf.rally_tasks.heat_tests.autoscaling_group.resources.scaling_policy.properties.auto_scaling_group_id.get_reso`
 - Type: string

- Description:
- *asg*
- conf.rally_tasks.heat_tests.autoscaling_group.resources.scaling_policy.properties.scaling_adjustment.get_param
 - Type: string
 - Description:
 - *scaling_adjustment*
- conf.rally_tasks.heat_tests.autoscaling_group.resources.scaling_policy.type
 - Type: string
 - Description:
 - *OS::Heat::ScalingPolicy*
- conf.rally_tasks.heat_tests.autoscaling_policy.heat_template_version
 - Type: string
 - Description:
 - *2013-05-23*
- conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_group.properties.desired_capacity
 - Type: int
 - Description:
 - *0*
- conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_group.properties.max_size
 - Type: int
 - Description:
 - *0*
- conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_group.properties.min_size
 - Type: int
 - Description:
 - *0*
- conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_group.properties.resource.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_group.type
 - Type: string
 - Description:
 - *OS::Heat::AutoScalingGroup*

- `conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_policy.properties.adjustment_type`
 - Type: string
 - Description:
 - *change_in_capacity*
- `conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_policy.properties.auto_scaling_group_id.get_resource`
 - Type: string
 - Description:
 - *test_group*
- `conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_policy.properties.scaling_adjustment`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.autoscaling_policy.resources.test_policy.type`
 - Type: string
 - Description:
 - *OS::Heat::ScalingPolicy*
- `conf.rally_tasks.heat_tests.default.heat_template_version`
 - Type: string
 - Description:
 - *2014-10-16*
- `conf.rally_tasks.heat_tests.random_strings.description`
 - Type: string
 - Description:
 - *Test template for rally create-update-delete scenario*
- `conf.rally_tasks.heat_tests.random_strings.heat_template_version`
 - Type: string
 - Description:
 - *2014-10-16*
- `conf.rally_tasks.heat_tests.random_strings.resources.test_string_one.properties.length`
 - Type: int
 - Description:
 - *20*
- `conf.rally_tasks.heat_tests.random_strings.resources.test_string_one.type`
 - Type: string

- Description:
- *OS::Heat::RandomString*
- `conf.rally_tasks.heat_tests.random_strings.resources.test_string_two.properties.length`
 - Type: int
 - Description:
 - 20
- `conf.rally_tasks.heat_tests.random_strings.resources.test_string_two.type`
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- `conf.rally_tasks.heat_tests.resource_group.description`
 - Type: string
 - Description:
 - *Test template for rally create-update-delete scenario*
- `conf.rally_tasks.heat_tests.resource_group.heat_template_version`
 - Type: string
 - Description:
 - 2014-10-16
- `conf.rally_tasks.heat_tests.resource_group.resources.test_group.properties.count`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.heat_tests.resource_group.resources.test_group.properties.resource_def.properties.length`
 - Type: int
 - Description:
 - 20
- `conf.rally_tasks.heat_tests.resource_group.resources.test_group.properties.resource_def.type`
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- `conf.rally_tasks.heat_tests.resource_group.resources.test_group.type`
 - Type: string
 - Description:
 - *OS::Heat::ResourceGroup*

- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.description`
 - Type: string
 - Description:
 - `Test template that creates a resource group with servers and volumes. The template allows to create a lot of nested stacks with standard configuration: ↪ nova instance, cinder volume attached to that instance`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.heat_template_version`
 - Type: string
 - Description:
 - `2014-10-16`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_availability_zone.default`
 - Type: string
 - Description:
 - `nova`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_availability_zone.description`
 - Type: string
 - Description:
 - `The Availability Zone to launch the instance.`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_availability_zone.type`
 - Type: string
 - Description:
 - `string`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_flavor.default`
 - Type: string
 - Description:
 - `m1.tiny`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_flavor.description`
 - Type: string
 - Description:
 - `Type of the instance to be created.`
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_flavor.type`
 - Type: string
 - Description:
 - `string`

- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_image.default`
 - Type: string
 - Description:
 - *cirros-0.3.4-x86_64-uec*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_image.type`
 - Type: string
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_volume_size.constraints[0].min`
 - Type: int
 - Description:
 - *1024*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_volume_size.constraints[0].max`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_volume_size.default`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_volume_size.description`
 - Type: string
 - Description:
 - *Size of volume to attach to instance*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.instance_volume_size.type`
 - Type: string
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.num_instances.constraints[0].range.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.num_instances.description`
 - Type: string

- Description:
- *number of instances that should be created in resource group*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.parameters.num_instances.type`
 - Type: string
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.properties.count.get`
 - Type: string
 - Description:
 - *num_instances*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.properties.resource_group`
 - Type: string
 - Description:
 - *instance_availability_zone*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.properties.resource_group_id`
 - Type: string
 - Description:
 - *instance_flavor*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.properties.resource_group_name`
 - Type: string
 - Description:
 - *instance_image*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.properties.resource_group_size`
 - Type: string
 - Description:
 - *instance_volume_size*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.properties.resource_group_templates`
 - Type: string
 - Description:
 - *templates/server-with-volume.yaml.template*
- `conf.rally_tasks.heat_tests.resource_group_server_with_volume.resources.group_of_volumes.type`
 - Type: string
 - Description:
 - *OS::Heat::ResourceGroup*

- `conf.rally_tasks.heat_tests.resource_group_with_constraint.description`
 - Type: string
 - Description:
 - *Template for testing caching.*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.heat_template_version`
 - Type: string
 - Description:
 - *2013-05-23*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.parameters.count.default`
 - Type: int
 - Description:
 - *40*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.parameters.count.type`
 - Type: string
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.parameters.delay.default`
 - Type: float
 - Description:
 - *0.1*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.parameters.delay.type`
 - Type: string
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.resources.rg.properties.count.get_param`
 - Type: string
 - Description:
 - *count*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.resources.rg.properties.resource_def.properties.constr`
 - Type: string
 - Description:
 - *delay*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.resources.rg.properties.resource_def.type`
 - Type: string

- Description:
 - *OS::Heat::TestResource*
- `conf.rally_tasks.heat_tests.resource_group_with_constraint.resources.rg.type`
 - Type: string
 - Description:
 - *OS::Heat::ResourceGroup*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.heat_template_version`
 - Type: string
 - Description:
 - *2013-05-23*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val1.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val1.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.0.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val10.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val10.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.9.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val2.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val2.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.1.output*

- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val3.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val3.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.2.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val4.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val4.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.3.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val5.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val5.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.4.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val6.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val6.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.5.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val7.value.get_attr[0]`
 - Type: string

- Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val7.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.6.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val8.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val8.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.7.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val9.value.get_attr[0]`
 - Type: string
 - Description:
 - *rg*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.outputs.val9.value.get_attr[1]`
 - Type: string
 - Description:
 - *resource.8.output*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.parameters.attr_wait_secs.default`
 - Type: float
 - Description:
 - *0.5*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.parameters.attr_wait_secs.type`
 - Type: string
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.resources.rg.properties.count`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.heat_tests.resource_group_with_outputs.resources.rg.properties.resource_def.properties.attr_wait`
 - Type: string
 - Description:
 - *attr_wait_secs*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.resources.rg.properties.resource_def.type`
 - Type: string
 - Description:
 - *OS::Heat::TestResource*
- `conf.rally_tasks.heat_tests.resource_group_with_outputs.resources.rg.type`
 - Type: string
 - Description:
 - *OS::Heat::ResourceGroup*
- `conf.rally_tasks.heat_tests.server_with_ports.heat_template_version`
 - Type: string
 - Description:
 - *2013-05-23*
- `conf.rally_tasks.heat_tests.server_with_ports.parameters.cidr.default`
 - Type: string
 - Description:
 - *11.11.11.0/24*
- `conf.rally_tasks.heat_tests.server_with_ports.parameters.cidr.type`
 - Type: string
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.server_with_ports.parameters.flavor.default`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.heat_tests.server_with_ports.parameters.flavor.type`
 - Type: string
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.server_with_ports.parameters.image.default`
 - Type: string

- Description:
- *cidr*
- conf.rally_tasks.heat_tests.server_with_ports.resources.private_subnet.properties.network.get_resource
 - Type: string
 - Description:
 - *private_net*
- conf.rally_tasks.heat_tests.server_with_ports.resources.private_subnet.type
 - Type: string
 - Description:
 - *OS::Neutron::Subnet*
- conf.rally_tasks.heat_tests.server_with_ports.resources.router.properties.external_gateway_info.network.get_param
 - Type: string
 - Description:
 - *public_net*
- conf.rally_tasks.heat_tests.server_with_ports.resources.router.type
 - Type: string
 - Description:
 - *OS::Neutron::Router*
- conf.rally_tasks.heat_tests.server_with_ports.resources.router_interface.properties.router_id.get_resource
 - Type: string
 - Description:
 - *router*
- conf.rally_tasks.heat_tests.server_with_ports.resources.router_interface.properties.subnet_id.get_resource
 - Type: string
 - Description:
 - *private_subnet*
- conf.rally_tasks.heat_tests.server_with_ports.resources.router_interface.type
 - Type: string
 - Description:
 - *OS::Neutron::RouterInterface*
- conf.rally_tasks.heat_tests.server_with_ports.resources.server.properties.flavor.get_param
 - Type: string
 - Description:
 - *flavor*

- `conf.rally_tasks.heat_tests.server_with_ports.resources.server.properties.image.get_param`
 - Type: string
 - Description:
 - *image*
- `conf.rally_tasks.heat_tests.server_with_ports.resources.server.properties.networks[0].port.get_resource`
 - Type: string
 - Description:
 - *server_port*
- `conf.rally_tasks.heat_tests.server_with_ports.resources.server.type`
 - Type: string
 - Description:
 - *OS::Nova::Server*
- `conf.rally_tasks.heat_tests.server_with_ports.resources.server_port.properties.fixed_ips[0].subnet.get_resource`
 - Type: string
 - Description:
 - *private_subnet*
- `conf.rally_tasks.heat_tests.server_with_ports.resources.server_port.properties.network.get_resource`
 - Type: string
 - Description:
 - *private_net*
- `conf.rally_tasks.heat_tests.server_with_ports.resources.server_port.properties.security_groups[0].get_resource`
 - Type: string
 - Description:
 - *port_security_group*
- `conf.rally_tasks.heat_tests.server_with_ports.resources.server_port.type`
 - Type: string
 - Description:
 - *OS::Neutron::Port*
- `conf.rally_tasks.heat_tests.server_with_volume.heat_template_version`
 - Type: string
 - Description:
 - *2013-05-23*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.availability_zone.default`
 - Type: string

- Description:
 - *nova*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.availability_zone.description`
 - Type: string
 - Description:
 - *The Availability Zone to launch the instance.*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.availability_zone.type`
 - Type: string
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.flavor.default`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.flavor.type`
 - Type: string
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.image.default`
 - Type: string
 - Description:
 - *cirros-0.3.4-x86_64-uec*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.image.type`
 - Type: string
 - Description:
 - *string*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.volume_size.constraints[0].description`
 - Type: string
 - Description:
 - *must be between 1 and 1024 Gb.*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.volume_size.constraints[0].range.max`
 - Type: int
 - Description:
 - *1024*

- `conf.rally_tasks.heat_tests.server_with_volume.parameters.volume_size.constraints[0].range.min`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.volume_size.default`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.volume_size.description`
 - Type: string
 - Description:
 - *Size of the volume to be created.*
- `conf.rally_tasks.heat_tests.server_with_volume.parameters.volume_size.type`
 - Type: string
 - Description:
 - *number*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.cinder_volume.properties.availability_zone.get_param`
 - Type: string
 - Description:
 - *availability_zone*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.cinder_volume.properties.size.get_param`
 - Type: string
 - Description:
 - *volume_size*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.cinder_volume.type`
 - Type: string
 - Description:
 - *OS::Cinder::Volume*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.server.properties.flavor.get_param`
 - Type: string
 - Description:
 - *flavor*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.server.properties.image.get_param`
 - Type: string

- Description:
- *image*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.server.type`
 - Type: string
 - Description:
 - *OS::Nova::Server*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.volume_attachment.properties.instance_uuid.get_resource`
 - Type: string
 - Description:
 - *server*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.volume_attachment.properties.mountpoint`
 - Type: string
 - Description:
 - */dev/vdc*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.volume_attachment.properties.volume_id.get_resource`
 - Type: string
 - Description:
 - *cinder_volume*
- `conf.rally_tasks.heat_tests.server_with_volume.resources.volume_attachment.type`
 - Type: string
 - Description:
 - *OS::Cinder::VolumeAttachment*
- `conf.rally_tasks.heat_tests.updated_random_strings_add.description`
 - Type: string
 - Description:

```
– Test template for create-update-delete-stack scenario in rally. The
template updates the stack defined by random-strings.yaml.template_
↔ with additional
resource.
```
- `conf.rally_tasks.heat_tests.updated_random_strings_add.heat_template_version`
 - Type: string
 - Description:
 - *2014-10-16*
- `conf.rally_tasks.heat_tests.updated_random_strings_add.resources.test_string_one.properties.length`
 - Type: int

- Description:
 - 20
- conf.rally_tasks.heat_tests.updated_random_strings_add.resources.test_string_one.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_random_strings_add.resources.test_string_three.properties.length
 - Type: int
 - Description:
 - 20
- conf.rally_tasks.heat_tests.updated_random_strings_add.resources.test_string_three.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_random_strings_add.resources.test_string_two.properties.length
 - Type: int
 - Description:
 - 20
- conf.rally_tasks.heat_tests.updated_random_strings_add.resources.test_string_two.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_random_strings_delete.description
 - Type: string
 - Description:
 - `Test template for create-update-delete-stack scenario in rally. The template deletes one resource from the stack defined by random-strings.yaml.template.`
- conf.rally_tasks.heat_tests.updated_random_strings_delete.heat_template_version
 - Type: string
 - Description:
 - 2014-10-16
- conf.rally_tasks.heat_tests.updated_random_strings_delete.resources.test_string_one.properties.length
 - Type: int

- Description:
 - 20
- conf.rally_tasks.heat_tests.updated_random_strings_delete.resources.test_string_one.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_random_strings_replace.description
 - Type: string
 - Description:

```

Test template for create-update-delete-stack scenario in rally. The
template deletes one resource from the stack defined by random-
↪strings.yaml.template
and re-creates it with the updated parameters (so-called update-
↪replace). That happens
because some parameters cannot be changed without resource re-
↪creation. The template
allows to measure performance of update-replace operation.
          
```
- conf.rally_tasks.heat_tests.updated_random_strings_replace.heat_template_version
 - Type: string
 - Description:
 - 2014-10-16
- conf.rally_tasks.heat_tests.updated_random_strings_replace.resources.test_string_one.properties.length
 - Type: int
 - Description:
 - 20
- conf.rally_tasks.heat_tests.updated_random_strings_replace.resources.test_string_one.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_random_strings_replace.resources.test_string_two.properties.length
 - Type: int
 - Description:
 - 40
- conf.rally_tasks.heat_tests.updated_random_strings_replace.resources.test_string_two.type
 - Type: string
 - Description:

- *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_resource_group_increase.description
 - Type: string
 - Description:

```
– Test template for create-update-delete-stack scenario in rally. The
template updates one resource from the stack defined by resource-
↪group.yaml.template
and adds children resources to that resource.
```

- conf.rally_tasks.heat_tests.updated_resource_group_increase.heat_template_version
 - Type: string
 - Description:
 - 2014-10-16
- conf.rally_tasks.heat_tests.updated_resource_group_increase.resources.test_group.properties.count
 - Type: int
 - Description:
 - 3
- conf.rally_tasks.heat_tests.updated_resource_group_increase.resources.test_group.properties.resource_def.proper
 - Type: int
 - Description:
 - 20
- conf.rally_tasks.heat_tests.updated_resource_group_increase.resources.test_group.properties.resource_def.type
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- conf.rally_tasks.heat_tests.updated_resource_group_increase.resources.test_group.type
 - Type: string
 - Description:
 - *OS::Heat::ResourceGroup*
- conf.rally_tasks.heat_tests.updated_resource_group_reduce.description
 - Type: string
 - Description:

```
– Test template for create-update-delete-stack scenario in rally.
The template updates one resource from the stack defined by resource-
↪group.yaml.template
and deletes children resources from that resource.
```

- `conf.rally_tasks.heat_tests.updated_resource_group_reduce.heat_template_version`
 - Type: string
 - Description:
 - *2014-10-16*
- `conf.rally_tasks.heat_tests.updated_resource_group_reduce.resources.test_group.properties.count`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.heat_tests.updated_resource_group_reduce.resources.test_group.properties.resource_def.properties`
 - Type: int
 - Description:
 - *20*
- `conf.rally_tasks.heat_tests.updated_resource_group_reduce.resources.test_group.properties.resource_def.type`
 - Type: string
 - Description:
 - *OS::Heat::RandomString*
- `conf.rally_tasks.heat_tests.updated_resource_group_reduce.resources.test_group.type`
 - Type: string
 - Description:
 - *OS::Heat::ResourceGroup*
- `conf.rally_tasks.keystone_task.KeystoneBasic.add_and_remove_user_role[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.keystone_task.KeystoneBasic.add_and_remove_user_role[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.keystone_task.KeystoneBasic.add_and_remove_user_role[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.add_and_remove_user_role[0].runner.times`
 - Type: int

- Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.add_and_remove_user_role[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.authenticate_user_and_validate_token[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.keystone_task.KeystoneBasic.authenticate_user_and_validate_token[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.keystone_task.KeystoneBasic.authenticate_user_and_validate_token[0].runner.times`
 - Type: int
 - Description:
 - *20*
- `conf.rally_tasks.keystone_task.KeystoneBasic.authenticate_user_and_validate_token[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.authenticate_user_and_validate_token[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_add_and_list_user_roles[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_add_and_list_user_roles[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.keystone_task.KeystoneBasic.create_add_and_list_user_roles[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_add_and_list_user_roles[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_add_and_list_user_roles[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_ec2credential[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_ec2credential[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_ec2credential[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_ec2credential[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_ec2credential[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_role[0].runner.concurrency`
 - Type: int

- Description:
 - *10*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_role[0].runner.times
 - Type: int
 - Description:
 - *100*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_role[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_service[0].args.description
 - Type: string
 - Description:
 - *test_description*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_service[0].args.service_type
 - Type: string
 - Description:
 - *Rally_test_type*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_service[0].runner.concurrency
 - Type: int
 - Description:
 - *10*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_service[0].runner.times
 - Type: int
 - Description:
 - *100*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_delete_service[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].args
 - Type: object
 - Description:
 - *{}*

- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_get_role[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_ec2credentials[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_ec2credentials[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_ec2credentials[0].runner.concurrency`
 - Type: int

- Description:
 - 5
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_ec2credentials[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_ec2credentials[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_services[0].args.description`
 - Type: string
 - Description:
 - *test_description*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_services[0].args.service_type`
 - Type: string
 - Description:
 - *Rally_test_type*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_services[0].runner.concurrency`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_services[0].runner.times`
 - Type: int
 - Description:
 - 100
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_services[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_tenants[0].args`
 - Type: object
 - Description:
 - *{}*

- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_tenants[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_tenants[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_tenants[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_users[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_users[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_users[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_and_list_users[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_delete_user[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_delete_user[0].runner.concurrency`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_delete_user[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_delete_user[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant_with_users[0].args.users_per_tenant`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant_with_users[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant_with_users[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_tenant_with_users[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_update_and_delete_tenant[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_update_and_delete_tenant[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_update_and_delete_tenant[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_update_and_delete_tenant[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user[0].args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user[0].runner.times`
 - Type: int

- Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[0].args.enabled`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[1].args.enabled`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[1].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[1].runner.times`
 - Type: int
 - Description:
 - *100*

- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_set_enabled_and_delete[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_update_password[0].args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_update_password[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_update_password[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.create_user_update_password[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.keystone_task.KeystoneBasic.get_entities[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.keystone_task.KeystoneBasic.get_entities[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.keystone_task.KeystoneBasic.get_entities[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.coe`
 - Type: string

- Description:
 - *kubernetes*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.dns`
 - Type: string
 - Description:
 - 8.8.8.8
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.dock`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.exter`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.flavo`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.imag`
 - Type: string
 - Description:
 - *fedora-atomic-latest*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.cluster_templates.netw`
 - Type: string
 - Description:
 - *flannel*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.users.tenants`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 1

- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *swarm*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.dns`
 - Type: string
 - Description:
 - *8.8.8.8*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.dock`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.exter`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.flavo`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.imag`
 - Type: string

- Description:
 - *fedora-atomic-latest*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.cluster_templates.network`
 - Type: string
 - Description:
 - *docker*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *mesos*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.cluster_templates.dns`
 - Type: string
 - Description:
 - *8.8.8.8*

- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.cluster_templates.extended`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.cluster_templates.flavor`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.cluster_templates.image`
 - Type: string
 - Description:
 - *ubuntu-mesos*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.cluster_templates.network`
 - Type: string
 - Description:
 - *docker*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusterTemplates.list_cluster_templates[2].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].args.node_count`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *kubernetes*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.dns_nameserver`
 - Type: string
 - Description:
 - *8.8.8.8*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.docker_volume_size`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.external_network`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.flavor_id`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.image_id`
 - Type: string
 - Description:
 - *fedora-atomic-latest*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.cluster_templates.network_driver`
 - Type: string
 - Description:
 - *flannel*

- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].args.node_count`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *swarm*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.dns_nameservers`
 - Type: string
 - Description:
 - *8.8.8.8*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.docker_volume_size`
 - Type: int

- Description:
 - 5
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.external_network`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.flavor_id`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.image_id`
 - Type: string
 - Description:
 - *fedora-atomic-latest*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.cluster_templates.network_driver`
 - Type: string
 - Description:
 - *docker*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].runner.times`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].args.node_count`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *mesos*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.cluster_templates.dns_nameserver`
 - Type: string
 - Description:
 - *8.8.8.8*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.cluster_templates.external_network`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.cluster_templates.flavor_id`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.cluster_templates.image_id`
 - Type: string
 - Description:
 - *ubuntu-mesos*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.cluster_templates.network_driver`
 - Type: string
 - Description:
 - *docker*
- `conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.users.tenants`
 - Type: int

- Description:
 - *1*
- conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].context.users.users_per_tenant
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.magnum_task.MagnumClusters.create_and_list_clusters[2].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.coe
 - Type: string
 - Description:
 - *kubernetes*
- conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.dns_nameserver
 - Type: string
 - Description:
 - *8.8.8.8*
- conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.docker_volume_size
 - Type: int
 - Description:
 - *5*
- conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.external_network_id
 - Type: string
 - Description:
 - *public*

- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.flavor_id`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.image_id`
 - Type: string
 - Description:
 - *fedora-atomic-latest*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.cluster_templates.network_driver`
 - Type: string
 - Description:
 - *flannel*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.clusters.node_count`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *swarm*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.dns_nameserver`
 - Type: string
 - Description:
 - *8.8.8.8*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.docker_volume_size`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.external_network_id`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.flavor_id`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.image_id`
 - Type: string
 - Description:
 - *fedora-atomic-latest*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.cluster_templates.network_driver`
 - Type: string
 - Description:
 - *docker*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.clusters.node_count`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.cluster_templates.coe`
 - Type: string
 - Description:
 - *mesos*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.cluster_templates.dns_nameserver`
 - Type: string
 - Description:
 - *8.8.8.8*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.cluster_templates.external_network_id`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.cluster_templates.flavor_id`
 - Type: string

- Description:
 - *m1.small*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.cluster_templates.image_id`
 - Type: string
 - Description:
 - *ubuntu-mesos*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.cluster_templates.network_driver`
 - Type: string
 - Description:
 - *docker*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.clusters.node_count`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.magnum_task.MagnumClusters.list_clusters[2].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].args.floating_ip_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].args.floating_network`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].context.quotas.neutron.floating`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_floating_ips[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].args.network_create_args`
 - Type: object

- Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_networks[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].args.port_create_args`
 - Type: object
 - Description:
 - *{}*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].args.ports_per_network`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].context.quotas.neutron.port`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_ports[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].args.router_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].args.subnet_cidr_start`
 - Type: string
 - Description:
 - *1.1.0.0/30*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].args.subnet_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].args.subnets_per_network`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].context.quotas.neutron.router`
 - Type: int
 - Description:
 - *-1*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].context.quotas.neutron.subnet`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].runner.times`
 - Type: int
 - Description:
 - *30*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_routers[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].args.subnet_cidr_start`
 - Type: string
 - Description:
 - *1.1.0.0/30*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].args.subnet_create_args`
 - Type: object

- Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].args.subnets_per_network`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].context.quotas.neutron.subnet`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].runner.times`
 - Type: int
 - Description:
 - *100*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_delete_subnets[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].args.floating_ip_args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].args.floating_network`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].context.quotas.neutron.floatingip`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_floating_ips[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].args.network_create_args.provider:n`
 - Type: string
 - Description:
 - *vxlan*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].context.roles[0]`
 - Type: string
 - Description:
 - *admin*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_networks[1].sla.failure_rate.max`
 - Type: int

- Description:
 - *0*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].args.port_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].args.ports_per_network`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].context.quotas.neutron.port`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_ports[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].args.router_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].args.subnet_cidr_start`
 - Type: string
 - Description:
 - *1.1.0.0/30*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].args.subnet_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].args.subnets_per_network`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].context.network`
 - Type: object

- Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].context.quotas.neutron.router`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].context.quotas.neutron.subnet`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_routers[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].args.network_create_args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].args.subnet_cidr_start`
 - Type: string
 - Description:
 - `1.1.0.0/30`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].args.subnet_create_args`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].args.subnets_per_network`
 - Type: int
 - Description:
 - `2`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].context.network`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - `-1`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].context.quotas.neutron.subnet`
 - Type: int
 - Description:
 - `-1`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].context.users.tenants`
 - Type: int
 - Description:
 - `2`
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_list_subnets[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].runner.concurrency`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_show_network[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].args.network_update_args.admin`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].args.network_update_args.name`
 - Type: string
 - Description:
 - *_updated*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_networks[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.port_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.port_update_args.admin_state_up`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.port_update_args.device_id`
 - Type: string
 - Description:
 - *dummy_id*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.port_update_args.device_owner`
 - Type: string
 - Description:
 - *dummy_owner*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.port_update_args.name`
 - Type: string
 - Description:
 - *_port_updated*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].args.ports_per_network`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].context.quotas.neutron.port`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].context.users.tenants`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].runner.concurrency`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_ports[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.router_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.router_update_args.admin_status`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.router_update_args.name`
 - Type: string
 - Description:
 - *_router_updated*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.subnet_cidr_start`
 - Type: string
 - Description:
 - *1.1.0.0/30*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.subnet_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].args.subnets_per_network`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].context.quotas.neutron.router`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].context.quotas.neutron.subnet`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_routers[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].args.network_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].args.subnet_cidr_start`
 - Type: string
 - Description:
 - *1.4.0.0/16*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].args.subnet_create_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].args.subnet_update_args.enable_d`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].args.subnet_update_args.name`
 - Type: string
 - Description:
 - *_subnet_updated*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].args.subnets_per_network`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].context.quotas.neutron.network`
 - Type: int
 - Description:
 - *-1*

- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].context.quotas.neutron.subnet`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronNetworks.create_and_update_subnets[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].args.agent_args`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronNetworks.list_agents[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].args.security_group_`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].context.quotas.neutro`
 - Type: int
 - Description:
 - -1
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].context.users.users_p`
 - Type: int
 - Description:
 - 3

- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].runner.times`
 - Type: int
 - Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_delete_security_groups[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].args.security_group_create`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].context.quotas.neutron`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].runner.times`
 - Type: int

- Description:
 - *100*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_list_security_groups[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].args.security_group`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].args.security_group`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].context.quotas.neutron`
 - Type: int
 - Description:
 - *-1*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].context.users.users`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].runner.concurrency`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].runner.times`
 - Type: int
 - Description:
 - *100*

- `conf.rally_tasks.neutron_task.NeutronSecurityGroup.create_and_update_security_groups[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAgents.list_agents[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAgents.list_agents[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaAgents.list_agents[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].args.availability_zone`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].context.users.users_per_t`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_and_remove_host[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.availability_zone`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.boot_server_kwargs`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.disk`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.metadata.test_metadata`
 - Type: string
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.ram`
 - Type: int
 - Description:
 - *512*

- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].args.vcpus`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.images.image`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.images.image`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.images.image`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.images.image`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.images.image`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].context.users.users_p`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].runner.concurrency`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_aggregate_add_host_and_boot_server[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].args.availability_zone`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].runner.times`
 - Type: int
 - Description:
 - 10

- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_delete_aggregate[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].args.availability_zone`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_get_aggregate_details[0].sla.failure_rate.max`
 - Type: int

- Description:
 - 0
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].args.availability_zone`
 - Type: string
 - Description:
 - *nova*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_list_aggregates[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].args.availability_zone`
 - Type: string
 - Description:
 - *nova*

- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAggregates.create_and_update_aggregate[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaAggregates.list_aggregates[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaAggregates.list_aggregates[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaAggregates.list_aggregates[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaAvailabilityZones.list_availability_zones[0].args.detailed`
 - Type: `bool`
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaAvailabilityZones.list_availability_zones[0].runner.concurrency`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.nova_task.NovaAvailabilityZones.list_availability_zones[0].runner.times`
 - Type: `int`
 - Description:
 - `10`
- `conf.rally_tasks.nova_task.NovaAvailabilityZones.list_availability_zones[0].runner.type`
 - Type: `string`
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].args.disk`
 - Type: `int`
 - Description:
 - `1`
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].args.ram`
 - Type: `int`
 - Description:
 - `500`
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].args.vcpus`
 - Type: `int`
 - Description:
 - `1`
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].context.users.tenants`
 - Type: `int`
 - Description:
 - `2`

- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_delete_flavor[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].args.disk`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].args.ram`
 - Type: int
 - Description:
 - 500
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].args.vcpus`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].context.users.tenants`
 - Type: int

- Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_get_flavor[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_list_flavor_access[0].args.disk`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_list_flavor_access[0].args.ram`
 - Type: int
 - Description:
 - *500*
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_list_flavor_access[0].args.vcpus`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.nova_task.NovaFlavors.create_and_list_flavor_access[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_list_flavor_access[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaFlavors.create_and_list_flavor_access[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor[0].args.disk`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor[0].args.ram`
 - Type: int
 - Description:
 - 500
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor[0].args.vcpus`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].args.disk`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].args.ram`
 - Type: int
 - Description:
 - *500*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].args.vcpus`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_add_tenant_access[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].args.disk`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].args.extra_specs.quota:disk_read_bytes_se`
 - Type: int
 - Description:
 - *10240*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].args.ram`
 - Type: int
 - Description:
 - *500*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].args.vcpus`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaFlavors.create_flavor_and_set_keys[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tasks.nova_task.NovaFlavors.list_flavors[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaFlavors.list_flavors[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaFlavors.list_flavors[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.list_flavors[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaFlavors.list_flavors[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaFlavors.list_flavors[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].args.detailed`
 - Type: `bool`
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].context.users.tenants`
 - Type: `int`
 - Description:
 - `3`
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].context.users.users_per_tenant`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].runner.concurrency`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].runner.times`
 - Type: `int`
 - Description:
 - `2`
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].runner.type`
 - Type: `string`
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_hypervisors[0].sla.failure_rate.max`
 - Type: `int`
 - Description:
 - `0`
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].args.detailed`
 - Type: `bool`
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].context.users.tenants`
 - Type: `int`

- Description:
 - 3
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_get_uptime_hypervisors[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2

- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_and_search_hypervisors[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaHypervisors.list_hypervisors[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaHypervisors.list_hypervisors[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.list_hypervisors[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaHypervisors.list_hypervisors[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].args`
 - Type: object

- Description:
 - *{}*
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaHypervisors.statistics_hypervisors[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].args.boot_server_kwargs`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*

- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.images.image_containe`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.images.images_per_ten`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.network.start_cidr`
 - Type: string
 - Description:
 - *100.1.0.0/26*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.users.tenants`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 1
- conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].runner.concurrency
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].runner.times
 - Type: int
 - Description:
 - 5
- conf.rally_tasks.nova_task.NovaKeypair.boot_and_delete_server_with_keypair[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.nova_task.NovaKeypair.create_and_delete_keypair[0].context.users.tenants
 - Type: int
 - Description:
 - 3
- conf.rally_tasks.nova_task.NovaKeypair.create_and_delete_keypair[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.nova_task.NovaKeypair.create_and_delete_keypair[0].runner.concurrency
 - Type: int
 - Description:
 - 2
- conf.rally_tasks.nova_task.NovaKeypair.create_and_delete_keypair[0].runner.times
 - Type: int
 - Description:
 - 10
- conf.rally_tasks.nova_task.NovaKeypair.create_and_delete_keypair[0].runner.type
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.nova_task.NovaKeypair.create_and_list_keypairs[0].context.users.tenants`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.nova_task.NovaKeypair.create_and_list_keypairs[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaKeypair.create_and_list_keypairs[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaKeypair.create_and_list_keypairs[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaKeypair.create_and_list_keypairs[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.images.image_name`
 - Type: string

- Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].runner.times`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_associate_floating_ip[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.actions[0].hard_reboot`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.actions[1].soft_reboot`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.actions[2].stop_start`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.actions[3].rescue_unrescue`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.images.image_container`
 - Type: string

- Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].runner.times`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_bounce_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].args.count`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.images.images_per_tenant`
 - Type: int

- Description:
 - *1*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.users.tenants
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].context.users.users_per_tenant
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].runner.concurrency
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].runner.times
 - Type: int
 - Description:
 - *1*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_multiple_servers[0].runner.type
 - Type: string
 - Description:
 - *constant*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].args.flavor.name
 - Type: string
 - Description:
 - *m1.tiny*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].args.force_delete
 - Type: bool
 - Description:
 - *false*
- conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].args.image.name
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].args.auto_assign_nic`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.network.networks_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.network.start_cidr`
 - Type: string
 - Description:
 - *10.2.0.0/24*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_delete_server[1].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].args.flavor.name`
 - Type: string

- Description:
 - *ml.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_get_console_output[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].args.detailed`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.images.image_type`
 - Type: string

- Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_list_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].args.block_migration`
 - Type: bool
 - Description:
 - *false*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_live_migrate_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_migrate_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].args.from_image.name`
 - Type: string

- Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].args.to_image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.nova_task.NovaServers.boot_and_rebuild_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.images.image_url`
 - Type: string

- Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_show_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_and_update_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*

- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_lock_unlock_and_delete[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.images.image_name`
 - Type: string

- Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].args.flavor.name`
 - Type: string
 - Description:
 - *ml.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.images.image`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.images.image`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.images.image`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.images.image`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.images.image`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.network`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.users.tenant`
 - Type: int

- Description:
 - 3
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].context.users.users`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_associate_and_dissociate_floating_ip[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].args.block_mig`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].args.boot_serv`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].args.create_vol`
 - Type: object
 - Description:
 - *{}*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].args.size`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.images`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.images`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.images`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.images`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.images`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.users.t`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].context.users.u`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].runner.concurre`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].runner.times`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_live_migrate[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.boot_server_kwa`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.confirm`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.create_volume_k`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.do_delete`
 - Type: bool
 - Description:
 - *true*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.to_flavor.name`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].args.volume_size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.images.image`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.images.image`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.images.image`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.images.image`
 - Type: string

- Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.images.image`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].context.users.users_p`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_attach_created_volume_and_resize[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].args.volume_size`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].args.volume_type`
 - Type: string
 - Description:
 -
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].args.volume_size`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].args.volume_type`
 - Type: string
 - Description:
 -

- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.images.image_containe`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].runner.times`
 - Type: int

- Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_delete[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].args.block_migration`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].args.volume_size`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].args.volume_type`
 - Type: string
 - Description:
 -
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.images.image_co`
 - Type: string
 - Description:
 - *bare*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.images.images_per_node`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.users.tenants_per_node`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].context.users.users_per_node`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_live_migrate[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.boot_server_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.confirm`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.create_volume_kwargs`
 - Type: object
 - Description:
 - `{}`
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.do_delete`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.to_flavor.name`
 - Type: string
 - Description:
 - *m1.small*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].args.volume_size`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.images.image_containe`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.images.images_per_ten`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].runner.concurrency`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_and_resize[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].args.volume_size`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].args.volume_type`
 - Type: string
 - Description:
 -
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.boot_server_from_volume_snapshot[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].args.detailed`
 - Type: bool

- Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.servers.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.servers.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.servers.servers_per_tenant`
 - Type: int
 - Description:
 - *2*

- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.list_servers[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.images.image_container`
 - Type: string

- Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].runner.times`
 - Type: int
 - Description:
 - *10*

- `conf.rally_tasks.nova_task.NovaServers.pause_and_unpause_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].args.confirm`
 - Type: bool
 - Description:
 - *true*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].args.to_flavor.name`
 - Type: string
 - Description:
 - *m1.small*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.images.image_type`
 - Type: string

- Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.resize_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*

- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].context.users.users_per_tenant`
 - Type: int

- Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaServers.shelve_and_unshelve_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].args.flavor.name`
 - Type: string
 - Description:
 - *m1.tiny*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*

- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].runner.concurrency`
 - Type: int
 - Description:
 - *2*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].runner.times`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.nova_task.NovaServers.snapshot_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].args.flavor.name`
 - Type: string

- Description:
 - *ml.tiny*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].args.force_delete`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].args.image.name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.users.tenants`
 - Type: int
 - Description:
 - *3*

- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaServers.suspend_and_resume_server[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.nova_task.NovaServices.list_services[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.nova_task.NovaServices.list_services[0].runner.times`
 - Type: int
 - Description:
 - 10
- `conf.rally_tasks.nova_task.NovaServices.list_services[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].args.desired_capacity`
 - Type: int
 - Description:
 - 3
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].args.max_size`
 - Type: int

- Description:
 - 5
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].args.min_size`
 - Type: int
 - Description:
 - 0
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.images.image_container`
 - Type: string
 - Description:
 - *bare*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.images.image_name`
 - Type: string
 - Description:
 - *cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.images.image_type`
 - Type: string
 - Description:
 - *qcow2*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.images.image_url`
 - Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.images.images_per_tenant`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.flavor`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.image`
 - Type: string
 - Description:
 - *cirros-0.3.4-x86_64-uec*

- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.name`
 - Type: string
 - Description:
 - *cirros_server*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.networks[0].name`
 - Type: string
 - Description:
 - *private*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.profiles.type`
 - Type: string
 - Description:
 - *os.nova.server*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.profiles.version`
 - Type: string
 - Description:
 - *1.0*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].runner.times`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.senlin_task.SenlinClusters.create_and_delete_cluster[0].runner.type`
 - Type: string

- Description:
 - *constant*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].args.object_size`
 - Type: `int`
 - Description:
 - *102400*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].args.objects_per_container`
 - Type: `int`
 - Description:
 - *5*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].context.roles[0]`
 - Type: `string`
 - Description:
 - *admin*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].context.users.tenants`
 - Type: `int`
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].context.users.users_per_tenant`
 - Type: `int`
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].runner.concurrency`
 - Type: `int`
 - Description:
 - *2*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].runner.times`
 - Type: `int`
 - Description:
 - *4*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_delete_all[0].runner.type`
 - Type: `string`
 - Description:
 - *constant*

- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].args.object_size`
 - Type: int
 - Description:
 - *1024*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].args.objects_per`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].context.roles[0]`
 - Type: string
 - Description:
 - *admin*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].context.users.tem`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].context.users.us`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].runner.concurre`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].runner.times`
 - Type: int
 - Description:
 - *6*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_download_object[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].args.object_size`
 - Type: int

- Description:
 - *5120*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].args.objects_per_cont`
 - Type: `int`
 - Description:
 - *2*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].context.roles[0]`
 - Type: `string`
 - Description:
 - *admin*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].context.users.tenants`
 - Type: `int`
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].context.users.users_pe`
 - Type: `int`
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].runner.concurrency`
 - Type: `int`
 - Description:
 - *2*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].runner.times`
 - Type: `int`
 - Description:
 - *2*
- `conf.rally_tasks.swift_task.SwiftObjects.create_container_and_object_then_list_objects[0].runner.type`
 - Type: `string`
 - Description:
 - *constant*
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].context.roles[0]`
 - Type: `string`
 - Description:
 - *admin*

- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].context.swift_objects.conta`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].context.swift_objects.objec`
 - Type: int
 - Description:
 - 10240
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].context.swift_objects.objec`
 - Type: int
 - Description:
 - 5
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].context.users.tenants`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].context.users.users_per_ten`
 - Type: int
 - Description:
 - 1
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].runner.concurrency`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].runner.times`
 - Type: int
 - Description:
 - 2
- `conf.rally_tasks.swift_task.SwiftObjects.list_and_download_objects_in_containers[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].context.roles[0]`
 - Type: string

- Description:
 - *admin*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].context.swift_objects.containers_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].context.swift_objects.object_size`
 - Type: int
 - Description:
 - *1024*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].context.swift_objects.objects_per_container`
 - Type: int
 - Description:
 - *10*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].context.users.tenants`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].context.users.users_per_tenant`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].runner.concurrency`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].runner.times`
 - Type: int
 - Description:
 - *6*
- `conf.rally_tasks.swift_task.SwiftObjects.list_objects_in_containers[0].runner.type`
 - Type: string
 - Description:
 - *constant*

- dependencies.dynamic.common.local_image_registry.jobs[0]
 - Type: string
 - Description:
 - *rally-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *rally-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string

- Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.manage_db.jobs[0]
 - Type: string
 - Description:
 - *rally-ks-user*
- dependencies.static.manage_db.jobs[1]
 - Type: string
 - Description:
 - *rally-ks-endpoints*
- dependencies.static.manage_db.jobs[2]
 - Type: string
 - Description:
 - *rally-db-init*

- dependencies.static.manage_db.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.manage_db.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.manage_db.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.manage_db.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.run_task.jobs[0]
 - Type: string
 - Description:
 - *rally-manage-db*
- dependencies.static.run_task.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.run_task.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.run_task.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.run_task.services[1].service
 - Type: string

- Description:
 - *identity*
- enabled_tasks[0]
 - Type: string
 - Description:
 - *cinder*
- enabled_tasks[1]
 - Type: string
 - Description:
 - *glance*
- enabled_tasks[2]
 - Type: string
 - Description:
 - *heat*
- enabled_tasks[3]
 - Type: string
 - Description:
 - *keystone*
- enabled_tasks[4]
 - Type: string
 - Description:
 - *magnum*
- enabled_tasks[5]
 - Type: string
 - Description:
 - *nova*
- enabled_tasks[6]
 - Type: string
 - Description:
 - *senlin*
- endpoints.benchmark.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*

- endpoints.benchmark.hosts.default
 - Type: string
 - Description:
 - *rally-api*
- endpoints.benchmark.hosts.public
 - Type: string
 - Description:
 - *rally*
- endpoints.benchmark.name
 - Type: string
 - Description:
 - *rally*
- endpoints.benchmark.path.default
 - Type: string
 - Description:
 - */v1*
- endpoints.benchmark.port.api.default
 - Type: int
 - Description:
 - *9312*
- endpoints.benchmark.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.benchmark.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.identity.auth.admin.password
 - Type: string

- Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.rally.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.rally.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.rally.project_name
 - Type: string
 - Description:
 - *service*

- endpoints.identity.auth.rally.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.rally.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.rally.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.rally.username
 - Type: string
 - Description:
 - *rally*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string

- Description:
 - *v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*

- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.rally.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.rally.username
 - Type: string
 - Description:
 - *rally*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string

- Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.keystone_authtoken.secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.rally.password
 - Type: string
 - Description:
 - *password*

- endpoints.oslo_db.auth.rally.username
 - Type: string
 - Description:
 - *rally*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */rally*
- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string

- Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- images.tags.db_init
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*

- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rally_db_sync
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- images.tags.run_task
 - Type: string
 - Description:
 - *docker.io/xrally/xrally-openstack:2.0.0*
- jobs.run_tasks.backoffLimit
 - Type: int
 - Description:
 - *6*
- jobs.run_tasks.restartPolicy
 - Type: string
 - Description:
 - *OnFailure*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool

- Description:
 - *true*
- manifests.configmap_tasks
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_test_templates
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*

- manifests.job_manage_db
 - Type: bool
 - Description:
 - *true*
- manifests.job_run_task
 - Type: bool
 - Description:
 - *true*
- manifests.pvc_rally
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default
 - Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int

- Description:
 - *10*
- pod.mounts.rally_api.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.rally_api.rally_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.rally_api.rally_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.rally_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.rally_bootstrap.rally_bootstrap.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.rally_bootstrap.rally_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*

- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.manage_db.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.manage_db.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.manage_db.requests.cpu
 - Type: string

- Description:
 - *100m*
- pod.resources.jobs.manage_db.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.run_task.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.run_task.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.run_task.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.run_task.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pvc.name
 - Type: string
 - Description:
 - *pvc-rally*
- pvc.requests.storage
 - Type: string
 - Description:
 - *2Gi*
- pvc.storage_class
 - Type: string
 - Description:
 - *general*

- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *rally-keystone-admin*
- secrets.identity.rally
 - Type: string
 - Description:
 - *rally-keystone-user*
- secrets.oci_image_registry.rally
 - Type: string
 - Description:
 - *rally-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *rally-db-admin*
- secrets.oslo_db.rally
 - Type: string
 - Description:
 - *rally-db-user*
- secrets.tls.identity.api.internal
 - Type: string
 - Description:
 - *keystone-tls-api*
- secrets.tls.identity.api.public
 - Type: string
 - Description:
 - *keystone-tls-public*
- tls.identity
 - Type: bool

- Description:
- *false*

3.23 Senlin

There are various customizations you can do to tailor the deployment of OpenStack Senlin. You can find those below.

3.23.1 General Parameters

- bootstrap.enabled
 - Type: bool
 - Description:
 - *false*
- bootstrap.ks_user
 - Type: string
 - Description:
 - *senlin*
- bootstrap.script
 - Type: string
 - Description:
 - `openstack token issue`
- conf.logging.formatter_context.class
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- conf.logging.formatter_context.datefmt
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- conf.logging.formatter_default.datefmt
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- conf.logging.formatter_default.format
 - Type: string
 - Description:

- *%(message)s*
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *context*
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - *()*
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - *logging.NullHandler*
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - *default*
- `conf.logging.handler_stderr.args`
 - Type: string
 - Description:
 - *(sys.stderr,)*
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`

- Type: string
 - Description:
 - (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:

- *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string
 - Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`

- Type: string
 - Description:
 - *eventlet.wsgi.server*
- conf.logging.logger_root.handlers
 - Type: string
 - Description:
 - *null*
- conf.logging.logger_root.level
 - Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_senlin.handlers[0]
 - Type: string
 - Description:
 - *stdout*
- conf.logging.logger_senlin.level
 - Type: string
 - Description:
 - *INFO*
- conf.logging.logger_senlin.qualname
 - Type: string
 - Description:
 - *senlin*
- conf.logging.logger_sqlalchemy.handlers
 - Type: string
 - Description:
 - *stderr*
- conf.logging.logger_sqlalchemy.level
 - Type: string
 - Description:
 - *WARNING*
- conf.logging.logger_sqlalchemy.qualname
 - Type: string
 - Description:

- *sqlalchemy*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *senlin*
- `conf.paste.app:apiv1app.paste.app_factory`
 - Type: string
 - Description:
 - *senlin.api.common.wsgi:app_factory*
- `conf.paste.app:apiv1app.senlin.app_factory`
 - Type: string
 - Description:
 - *senlin.api.openstack.v1.router:API*
- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:context.paste.filter_factory`
 - Type: string
 - Description:
 - *senlin.api.common.wsgi:filter_factory*
- `conf.paste.filter:context.senlin.filter_factory`
 - Type: string
 - Description:
 - *senlin.api.middleware:context_filter*
- `conf.paste.filter:faultwrap.paste.filter_factory`
 - Type: string
 - Description:
 - *senlin.api.common.wsgi:filter_factory*
- `conf.paste.filter:faultwrap.senlin.filter_factory`

- Type: string
 - Description:
 - *senlin.api.middleware:fault_filter*
- conf.paste.filter:request_id.paste.filter_factory
 - Type: string
 - Description:
 - *oslo_middleware.request_id:RequestId.factory*
- conf.paste.filter:ssl.paste.filter_factory
 - Type: string
 - Description:
 - *oslo_middleware.ssl:SSLMiddleware.factory*
- conf.paste.filter:trust.paste.filter_factory
 - Type: string
 - Description:
 - *senlin.api.common.wsgi:filter_factory*
- conf.paste.filter:trust.senlin.filter_factory
 - Type: string
 - Description:
 - *senlin.api.middleware:trust_filter*
- conf.paste.filter:versionnegotiation.paste.filter_factory
 - Type: string
 - Description:
 - *senlin.api.common.wsgi:filter_factory*
- conf.paste.filter:versionnegotiation.senlin.filter_factory
 - Type: string
 - Description:
 - *senlin.api.middleware:version_filter*
- conf.paste.filter:webhook.paste.filter_factory
 - Type: string
 - Description:
 - *senlin.api.common.wsgi:filter_factory*
- conf.paste.filter:webhook.senlin.filter_factory
 - Type: string
 - Description:

- *senlin.api.middleware:webhook_filter*
- `conf.paste.pipeline:senlin-api.pipeline`
 - Type: string
 - Description:
 - *request_id faultwrap ssl versionnegotiation webhook authtoken context trust apivlapp*
- `conf.policy`
 - Type: object
 - Description:
 - *{}*
- `conf.rally_tests.run_tempest`
 - Type: bool
 - Description:
 - *false*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].args.desired_capacity`
 - Type: int
 - Description:
 - *3*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].args.max_size`
 - Type: int
 - Description:
 - *5*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].args.min_size`
 - Type: int
 - Description:
 - *0*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.flavor`
 - Type: string
 - Description:
 - *689eeda3-c6cd-450f-b000-58025c783763*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.image`
 - Type: string
 - Description:
 - *df0c1a14-0940-4ae5-be5c-bb06aa407da2*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.name`

- Type: string
 - Description:
 - *cirros_server*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].context.profiles.properties.networks[0].network`
 - Type: string
 - Description:
 - *public*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].context.profiles.type`
 - Type: string
 - Description:
 - *os.nova.server*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].context.profiles.version`
 - Type: string
 - Description:
 - *1.0*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].runner.concurrency`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].runner.times`
 - Type: int
 - Description:
 - *1*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].runner.type`
 - Type: string
 - Description:
 - *constant*
- `conf.rally_tests.tests.SenlinClusters.create_and_delete_cluster[0].sla.failure_rate.max`
 - Type: int
 - Description:
 - *0*
- `conf.senlin.DEFAULT.host`
 - Type: string
 - Description:

- *senlin*
- `conf.senlin.DEFAULT.log_config_append`
 - Type: string
 - Description:
 - */etc/senlin/logging.conf*
- `conf.senlin.DEFAULT.transport_url`
 - Type: string
 - Description:
 - *nil*
- `conf.senlin.authentication.auth_url`
 - Type: string
 - Description:
 - *nil*
- `conf.senlin.database.max_retries`
 - Type: int
 - Description:
 - *-1*
- `conf.senlin.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.senlin.keystone_authtoken.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.senlin.keystone_authtoken.memcache_security_strategy`
 - Type: string
 - Description:
 - *ENCRYPT*
- `conf.senlin.keystone_authtoken.service_type`
 - Type: string
 - Description:
 - *clustering*
- `conf.senlin.oslo_policy.policy_file`

- Type: string
 - Description:
 - */etc/senlin/policy.yaml*
- conf.senlin.senlin_api.bind_port
 - Type: string
 - Description:
 - *nil*
- conf.senlin_api_uwsgi.uwsgi.add-header
 - Type: string
 - Description:
 - *Connection: close*
- conf.senlin_api_uwsgi.uwsgi.buffer-size
 - Type: int
 - Description:
 - *65535*
- conf.senlin_api_uwsgi.uwsgi.die-on-term
 - Type: bool
 - Description:
 - *true*
- conf.senlin_api_uwsgi.uwsgi.enable-threads
 - Type: bool
 - Description:
 - *true*
- conf.senlin_api_uwsgi.uwsgi.exit-on-reload
 - Type: bool
 - Description:
 - *false*
- conf.senlin_api_uwsgi.uwsgi.hook-master-start
 - Type: string
 - Description:
 - *unix_signal:15 gracefully_kill_them_all*
- conf.senlin_api_uwsgi.uwsgi.lazy-apps
 - Type: bool
 - Description:

- *true*
- `conf.senlin_api_uwsgi.uwsgi.log-x-forwarded-for`
 - Type: `bool`
 - Description:
 - *true*
- `conf.senlin_api_uwsgi.uwsgi.master`
 - Type: `bool`
 - Description:
 - *true*
- `conf.senlin_api_uwsgi.uwsgi.procname-prefix-spaced`
 - Type: `string`
 - Description:
 - *senlin-api:*
- `conf.senlin_api_uwsgi.uwsgi.route-user-agent`
 - Type: `string`
 - Description:
 - *^kprobe.* donotlog:*
- `conf.senlin_api_uwsgi.uwsgi.thunder-lock`
 - Type: `bool`
 - Description:
 - *true*
- `conf.senlin_api_uwsgi.uwsgi.worker-reload-mercy`
 - Type: `int`
 - Description:
 - *80*
- `conf.senlin_api_uwsgi.uwsgi.wsgi-file`
 - Type: `string`
 - Description:
 - */var/lib/openstack/bin/senlin-wsgi-api*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
 - Type: `string`
 - Description:
 - *senlin-image-repo-sync*
- `dependencies.dynamic.common.local_image_registry.services[0].endpoint`

- Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.api.jobs[0]
 - Type: string
 - Description:
 - *senlin-db-sync*
- dependencies.static.api.jobs[1]
 - Type: string
 - Description:
 - *senlin-ks-user*
- dependencies.static.api.jobs[2]
 - Type: string
 - Description:
 - *senlin-ks-endpoints*
- dependencies.static.api.jobs[3]
 - Type: string
 - Description:
 - *senlin-rabbit-init*
- dependencies.static.api.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.api.services[1].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.api.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.api.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.api.services[2].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.conductor.jobs[0]
 - Type: string
 - Description:
 - *senlin-db-sync*
- dependencies.static.conductor.jobs[1]
 - Type: string
 - Description:
 - *senlin-ks-user*
- dependencies.static.conductor.jobs[2]
 - Type: string
 - Description:
 - *senlin-ks-endpoints*
- dependencies.static.conductor.jobs[3]
 - Type: string
 - Description:
 - *senlin-rabbit-init*
- dependencies.static.conductor.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[0].service

- Type: string
 - Description:
 - *oslo_db*
- dependencies.static.conductor.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *senlin-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.engine.jobs[0]
 - Type: string
 - Description:
 - *senlin-db-sync*
- dependencies.static.engine.jobs[1]
 - Type: string
 - Description:
 - *senlin-ks-user*
- dependencies.static.engine.jobs[2]
 - Type: string
 - Description:
 - *senlin-ks-endpoints*
- dependencies.static.engine.jobs[3]
 - Type: string
 - Description:
 - *senlin-rabbit-init*
- dependencies.static.engine.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.engine.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.engine.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.engine.services[1].service

- Type: string
 - Description:
 - *identity*
- dependencies.static.engine_cleaner.jobs[0]
 - Type: string
 - Description:
 - *senlin-db-sync*
- dependencies.static.engine_cleaner.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.engine_cleaner.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.engine_cleaner.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.engine_cleaner.services[1].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.engine_cleaner.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.engine_cleaner.services[2].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.health_manager.jobs[0]
 - Type: string
 - Description:

- *senlin-db-sync*
- dependencies.static.health_manager.jobs[1]
 - Type: string
 - Description:
 - *senlin-ks-user*
- dependencies.static.health_manager.jobs[2]
 - Type: string
 - Description:
 - *senlin-ks-endpoints*
- dependencies.static.health_manager.jobs[3]
 - Type: string
 - Description:
 - *senlin-rabbit-init*
- dependencies.static.health_manager.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.health_manager.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.health_manager.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service

- Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *senlin-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.rabbit_init.services[0].endpoint
 - Type: string
 - Description:

- *internal*
- dependencies.static.rabbit_init.services[0].service
 - Type: string
 - Description:
 - *oslo_messaging*
- dependencies.static.tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.tests.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[1].service
 - Type: string
 - Description:
 - *clustering*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.clustering.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.clustering.hosts.default
 - Type: string
 - Description:
 - *senlin-api*
- endpoints.clustering.hosts.public

- Type: string
 - Description:
 - *senlin*
- endpoints.clustering.name
 - Type: string
 - Description:
 - *senlin*
- endpoints.clustering.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.clustering.port.api.default
 - Type: int
 - Description:
 - *8778*
- endpoints.clustering.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.clustering.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.fluentd.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.hosts.default
 - Type: string
 - Description:
 - *fluentd-logging*
- endpoints.fluentd.name
 - Type: string
 - Description:

- *fluentd*
- endpoints.fluentd.namespace
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.fluentd.port.metrics.default
 - Type: int
 - Description:
 - *24220*
- endpoints.fluentd.port.service.default
 - Type: int
 - Description:
 - *24224*
- endpoints.fluentd.scheme
 - Type: string
 - Description:
 - *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name

- Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.senlin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.senlin.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.senlin.project_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.senlin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.senlin.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.senlin.user_domain_name
 - Type: string
 - Description:

- *service*
- endpoints.identity.auth.senlin.username
 - Type: string
 - Description:
 - *senlin*
- endpoints.identity.auth.test.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.test.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.project_name
 - Type: string
 - Description:
 - *test*
- endpoints.identity.auth.test.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.test.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.test.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.test.username
 - Type: string
 - Description:
 - *senlin-test*
- endpoints.identity.host_fqdn_override.default

- Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:

- *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.senlin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.senlin.username

- Type: string
 - Description:
 - *senlin*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:

- *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int
 - Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.senlin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.senlin.username
 - Type: string
 - Description:
 - *senlin*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */senlin*
- endpoints.oslo_db.port.mysql.default

- Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.senlin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.senlin.username
 - Type: string
 - Description:
 - *senlin*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:

- */senlin*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]

- Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.bootstrap
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_drop
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.db_init
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entripoint:latest-ubuntu_focal*
- images.tags.image_repo_sync
 - Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_endpoints
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_service
 - Type: string
 - Description:

- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.scripted_test
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.senlin_api
 - Type: string
 - Description:
 - *docker.io/openstackhelm/senlin:wallaby-ubuntu_focal*
- images.tags.senlin_conductor
 - Type: string
 - Description:
 - *docker.io/openstackhelm/senlin:wallaby-ubuntu_focal*
- images.tags.senlin_db_sync
 - Type: string
 - Description:
 - *docker.io/openstackhelm/senlin:wallaby-ubuntu_focal*
- images.tags.senlin_engine
 - Type: string
 - Description:
 - *docker.io/openstackhelm/senlin:wallaby-ubuntu_focal*
- images.tags.senlin_engine_cleaner
 - Type: string
 - Description:
 - *docker.io/openstackhelm/senlin:wallaby-ubuntu_focal*
- images.tags.senlin_health_manager

- Type: string
 - Description:
 - *docker.io/openstackhelm/senlin:wallaby-ubuntu_focal*
- jobs.engine_cleaner.cron
 - Type: string
 - Description:
 - **/5 * * * **
- jobs.engine_cleaner.history.failed
 - Type: int
 - Description:
 - *1*
- jobs.engine_cleaner.history.success
 - Type: int
 - Description:
 - *3*
- labels.api.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.api.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.conductor.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.conductor.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.engine.node_selector_key
 - Type: string
 - Description:

- *openstack-control-plane*
- labels.engine.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.health_manager.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.health_manager.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc

- Type: bool
 - Description:
 - *true*
- manifests.cron_job_engine_cleaner
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_api
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_conductor
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_engine
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_health_manager
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_bootstrap
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:

- *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.network_policy
 - Type: bool
 - Description:
 - *false*
- manifests.pdb_api

- Type: bool
 - Description:
 - *true*
- manifests.pod_test
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool
 - Description:
 - *true*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:

- /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30778*
- network_policy.senlin.egress[0]
 - Type: object
 - Description:
 - *{}*
- network_policy.senlin.ingress[0]
 - Type: object
 - Description:
 - *{}*
- pod.affinity.anti.topologyKey.default
 - Type: string
 - Description:
 - *kubernetes.io/hostname*
- pod.affinity.anti.type.default

- Type: string
 - Description:
 - *preferredDuringSchedulingIgnoredDuringExecution*
- pod.affinity.anti.weight.default
 - Type: int
 - Description:
 - *10*
- pod.lifecycle.disruption_budget.api.min_available
 - Type: int
 - Description:
 - *0*
- pod.lifecycle.termination_grace_period.api.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.upgrades.deployments.pod_replacement_strategy
 - Type: string
 - Description:
 - *RollingUpdate*
- pod.lifecycle.upgrades.deployments.revision_history
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_surge
 - Type: int
 - Description:
 - *3*
- pod.lifecycle.upgrades.deployments.rolling_update.max_unavailable
 - Type: int
 - Description:
 - *1*
- pod.mounts.senlin_api.init_container
 - Type: string
 - Description:

- *nil*
- pod.mounts.senlin_api.senlin_api.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_api.senlin_api.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_bootstrap.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_bootstrap.senlin_bootstrap.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_bootstrap.senlin_bootstrap.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_conductor.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_conductor.senlin_conductor.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_conductor.senlin_conductor.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_db_sync.senlin_db_sync.volumeMounts

- Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_db_sync.senlin_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_engine.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_engine.senlin_engine.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_engine.senlin_engine.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_engine_cleaner.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_engine_cleaner.senlin_engine_cleaner.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_engine_cleaner.senlin_engine_cleaner.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_health_manager.init_container
 - Type: string
 - Description:

- *nil*
- pod.mounts.senlin_health_manager.senlin_health_manager.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_health_manager.senlin_health_manager.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_tests.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_tests.senlin_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.senlin_tests.senlin_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.api
 - Type: int
 - Description:
 - *1*
- pod.replicas.conductor
 - Type: int
 - Description:
 - *1*
- pod.replicas.engine
 - Type: int
 - Description:
 - *1*
- pod.replicas.health_manager

- Type: int
 - Description:
 - *1*
- pod.resources.api.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.api.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.api.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.api.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.conductor.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.conductor.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.conductor.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.conductor.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.engine.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.engine.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.engine.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.engine.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.health_manager.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.health_manager.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.health_manager.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.health_manager.requests.memory

- Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.bootstrap.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.bootstrap.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.bootstrap.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.bootstrap.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:

- *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.engine_cleaner.limits.cpu

- Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.engine_cleaner.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.engine_cleaner.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.engine_cleaner.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:

- *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory

- Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.rabbit_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.rabbit_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.rabbit_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.rabbit_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:

- *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.user.senlin.uid
 - Type: int
 - Description:
 - *42424*
- release_group
 - Type: string
 - Description:
 - *nil*
- secrets.identity.admin
 - Type: string
 - Description:
 - *senlin-keystone-admin*
- secrets.identity.senlin
 - Type: string
 - Description:
 - *senlin-keystone-user*
- secrets.oci_image_registry.senlin
 - Type: string
 - Description:
 - *senlin-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *senlin-db-admin*
- secrets.oslo_db.senlin

- Type: string
- Description:
 - *senlin-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *senlin-rabbitmq-admin*
- secrets.oslo_messaging.senlin
 - Type: string
 - Description:
 - *senlin-rabbitmq-user*

3.24 Tacker

There are various customizations you can do to tailor the deployment of OpenStack Tacker. You can find those below.

3.24.1 General Parameters

- conf.conductor.command
 - Type: string
 - Description:
 - *tacker-conductor config-file /etc/tacker/tacker.conf*
- conf.conductor.config_files[0].dest
 - Type: string
 - Description:
 - */etc/tacker/tacker.conf*
- conf.conductor.config_files[0].owner
 - Type: string
 - Description:
 - *tacker*
- conf.conductor.config_files[0].perm
 - Type: string
 - Description:
 - *0600*
- conf.conductor.config_files[0].source
 - Type: string

- Description:
 - */etc/tacker/tacker.conf*
- `conf.conductor.permissions[0].owner`
 - Type: string
 - Description:
 - *tacker:tacker*
- `conf.conductor.permissions[0].path`
 - Type: string
 - Description:
 - */var/log/openstackhelm/tacker*
- `conf.conductor.permissions[0].recurse`
 - Type: bool
 - Description:
 - *true*
- `conf.conductor.permissions[1].owner`
 - Type: string
 - Description:
 - *tacker:tacker*
- `conf.conductor.permissions[1].path`
 - Type: string
 - Description:
 - */var/lib/tacker/vnfpackages*
- `conf.conductor.permissions[2].owner`
 - Type: string
 - Description:
 - *tacker:tacker*
- `conf.conductor.permissions[2].path`
 - Type: string
 - Description:
 - */var/lib/tacker/csar_files*
- `conf.logging.formatter_context.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*

- `conf.logging.formatter_context.datefmt`
 - Type: string
 - Description:
 - `%Y-%m-%d %H:%M:%S`
- `conf.logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - `%Y-%m-%d %H:%M:%S`
- `conf.logging.formatter_default.format`
 - Type: string
 - Description:
 - `%(message)s`
- `conf.logging.formatters.keys[0]`
 - Type: string
 - Description:
 - `context`
- `conf.logging.formatters.keys[1]`
 - Type: string
 - Description:
 - `default`
- `conf.logging.handler_null.args`
 - Type: string
 - Description:
 - `()`
- `conf.logging.handler_null.class`
 - Type: string
 - Description:
 - `logging.NullHandler`
- `conf.logging.handler_null.formatter`
 - Type: string
 - Description:
 - `default`
- `conf.logging.handler_stderr.args`
 - Type: string

- Description:
 - (*sys.stderr*,)
- `conf.logging.handler_stderr.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stderr.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handler_stdout.args`
 - Type: string
 - Description:
 - (*sys.stdout*,)
- `conf.logging.handler_stdout.class`
 - Type: string
 - Description:
 - *StreamHandler*
- `conf.logging.handler_stdout.formatter`
 - Type: string
 - Description:
 - *context*
- `conf.logging.handlers.keys[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.handlers.keys[1]`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.handlers.keys[2]`
 - Type: string
 - Description:
 - *null*

- `conf.logging.logger_amqp.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqp.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqp.qualname`
 - Type: string
 - Description:
 - *amqp*
- `conf.logging.logger_amqplib.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_amqplib.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_amqplib.qualname`
 - Type: string
 - Description:
 - *amqplib*
- `conf.logging.logger_boto.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_boto.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_boto.qualname`
 - Type: string

- Description:
 - *boto*
- `conf.logging.logger_eventletwsgi.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_eventletwsgi.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_eventletwsgi.qualname`
 - Type: string
 - Description:
 - *eventlet.wsgi.server*
- `conf.logging.logger_root.handlers`
 - Type: string
 - Description:
 - *null*
- `conf.logging.logger_root.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.handlers`
 - Type: string
 - Description:
 - *stderr*
- `conf.logging.logger_sqlalchemy.level`
 - Type: string
 - Description:
 - *WARNING*
- `conf.logging.logger_sqlalchemy.qualname`
 - Type: string
 - Description:
 - *sqlalchemy*

- `conf.logging.logger_tacker.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.logging.logger_tacker.level`
 - Type: string
 - Description:
 - *INFO*
- `conf.logging.logger_tacker.qualname`
 - Type: string
 - Description:
 - *tacker*
- `conf.logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *tacker*
- `conf.paste.app:prometheus_auto_scaling.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:AutoScalingRouter.factory*
- `conf.paste.app:prometheus_fm.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:FmAlertRouter.factory*
- `conf.paste.app:prometheus_pm.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:PmEventRouter.factory*
- `conf.paste.app:server_notification.paste.app_factory`
 - Type: string

- Description:
 - *tacker.sol_refactored.api.router:ServerNotificationRouter.factory*
- `conf.paste.app:tackerapiapp_v1_0.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.api.v1.router:APIRouter.factory*
- `conf.paste.app:tackerversions.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.api.versions:Versions.factory*
- `conf.paste.app:vnffmaapp_v1.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:VnffmAPIRouterV1.factory*
- `conf.paste.app:vnflcm_api_versions.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:VnflcmVersions.factory*
- `conf.paste.app:vnflcmaapp_v1.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.api.vnflcm.v1.router:VnflcmAPIRouter.factory*
- `conf.paste.app:vnflcmaapp_v2.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:VnflcmAPIRouterV2.factory*
- `conf.paste.app:vnfpkgmapp_v1.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.api.vnfpkgm.v1.router:VnfpkgmAPIRouter.factory*
- `conf.paste.app:vnfpmaapp_v2.paste.app_factory`
 - Type: string
 - Description:
 - *tacker.sol_refactored.api.router:VnfpMAPIRouterV2.factory*

- `conf.paste.composite:tacker/v1.0`
 - Type: string
 - Description:
 - *tackerapi_v1_0*
- `conf.paste.composite:tacker/`
 - Type: string
 - Description:
 - *tackerversions*
- `conf.paste.composite:tacker/alert`
 - Type: string
 - Description:
 - *prometheus_fm*
- `conf.paste.composite:tacker/alert/vnf_instances`
 - Type: string
 - Description:
 - *prometheus_auto_scaling*
- `conf.paste.composite:tacker/pm_event`
 - Type: string
 - Description:
 - *prometheus_pm*
- `conf.paste.composite:tacker/server_notification`
 - Type: string
 - Description:
 - *server_notification*
- `conf.paste.composite:tacker/vnffm/v1`
 - Type: string
 - Description:
 - *vnffm_v1*
- `conf.paste.composite:tacker/vnflcm`
 - Type: string
 - Description:
 - *vnflcm_versions*
- `conf.paste.composite:tacker/vnflcm/v1`
 - Type: string

- Description:
 - *vnflcm_v1*
- `conf.paste.composite:tacker./vnflcm/v2`
 - Type: string
 - Description:
 - *vnflcm_v2*
- `conf.paste.composite:tacker./vnfpkgm/v1`
 - Type: string
 - Description:
 - *vnfpkgmapi_v1*
- `conf.paste.composite:tacker./vnfpm/v2`
 - Type: string
 - Description:
 - *vnfpm_v2*
- `conf.paste.composite:tacker.use`
 - Type: string
 - Description:
 - *egg:Paste#urlmap*
- `conf.paste.composite:tackerapi_v1_0.keystone`
 - Type: string
 - Description:
 - *cors request_id catch_errors authtoken keystonecontext extensions tackerapiapp_v1_0*
- `conf.paste.composite:tackerapi_v1_0.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors extensions tackerapiapp_v1_0*
- `conf.paste.composite:tackerapi_v1_0.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*
- `conf.paste.composite:vnffm_v1.keystone`
 - Type: string
 - Description:
 - *cors request_id catch_errors authtoken keystonecontext vnffmaapp_v1*

- `conf.paste.composite:vnffm_v1.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors vnffmaapp_v1*
- `conf.paste.composite:vnffm_v1.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*
- `conf.paste.composite:vnflcm_v1.keystone`
 - Type: string
 - Description:
 - *cors request_id catch_errors authtoken keystonecontext vnflcmaapp_v1*
- `conf.paste.composite:vnflcm_v1.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors vnflcmaapp_v1*
- `conf.paste.composite:vnflcm_v1.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*
- `conf.paste.composite:vnflcm_v2.keystone`
 - Type: string
 - Description:
 - *cors request_id catch_errors authtoken keystonecontext vnflcmaapp_v2*
- `conf.paste.composite:vnflcm_v2.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors vnflcmaapp_v2*
- `conf.paste.composite:vnflcm_v2.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*
- `conf.paste.composite:vnflcm_versions.keystone`
 - Type: string

- Description:
 - *cors request_id catch_errors authtoken keystonecontext vnflcm_api_versions*
- `conf.paste.composite:vnflcm_versions.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors vnflcm_api_versions*
- `conf.paste.composite:vnflcm_versions.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*
- `conf.paste.composite:vnfpkgmapi_v1.keystone`
 - Type: string
 - Description:
 - *cors request_id catch_errors authtoken keystonecontext vnfpkgmapp_v1*
- `conf.paste.composite:vnfpkgmapi_v1.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors vnfpkgmapp_v1*
- `conf.paste.composite:vnfpkgmapi_v1.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*
- `conf.paste.composite:vnfpm_v2.keystone`
 - Type: string
 - Description:
 - *cors request_id catch_errors authtoken keystonecontext vnfpmaapp_v2*
- `conf.paste.composite:vnfpm_v2.noauth`
 - Type: string
 - Description:
 - *cors request_id catch_errors vnfpmaapp_v2*
- `conf.paste.composite:vnfpm_v2.use`
 - Type: string
 - Description:
 - *call:tacker.auth:pipeline_factory*

- `conf.paste.filter:authtoken.paste.filter_factory`
 - Type: string
 - Description:
 - *keystonemiddleware.auth_token:filter_factory*
- `conf.paste.filter:catch_errors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:CatchErrors.factory*
- `conf.paste.filter:cors.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware.cors:filter_factory*
- `conf.paste.filter:cors.oslo_config_project`
 - Type: string
 - Description:
 - *tacker*
- `conf.paste.filter:extensions.paste.filter_factory`
 - Type: string
 - Description:
 - *tacker.api.extensions:extension_middleware_factory*
- `conf.paste.filter:keystonecontext.paste.filter_factory`
 - Type: string
 - Description:
 - *tacker.auth:TackerKeystoneContext.factory*
- `conf.paste.filter:request_id.paste.filter_factory`
 - Type: string
 - Description:
 - *oslo_middleware:RequestId.factory*
- `conf.server.command`
 - Type: string
 - Description:
 - *tacker-server config-file /etc/tacker/tacker.conf*
- `conf.server.config_files[0].dest`
 - Type: string

- Description:
 - */etc/tacker/tacker.conf*
- `conf.server.config_files[0].owner`
 - Type: string
 - Description:
 - *tacker*
- `conf.server.config_files[0].perm`
 - Type: string
 - Description:
 - *0600*
- `conf.server.config_files[0].source`
 - Type: string
 - Description:
 - */etc/tacker/tacker.conf*
- `conf.server.permissions[0].owner`
 - Type: string
 - Description:
 - *tacker:tacker*
- `conf.server.permissions[0].path`
 - Type: string
 - Description:
 - */var/log/openstackhelm/tacker*
- `conf.server.permissions[0].recurse`
 - Type: bool
 - Description:
 - *true*
- `conf.server.permissions[1].owner`
 - Type: string
 - Description:
 - *tacker:tacker*
- `conf.server.permissions[1].path`
 - Type: string
 - Description:
 - */var/lib/tacker/csar_files*

- `conf.tacker.DEFAULT.api_workers`
 - Type: int
 - Description:
 - 5
- `conf.tacker.DEFAULT.debug`
 - Type: bool
 - Description:
 - *false*
- `conf.tacker.DEFAULT.log_config_append`
 - Type: string
 - Description:
 - */etc/tacker/logging.conf*
- `conf.tacker.DEFAULT.log_dir`
 - Type: string
 - Description:
 - */var/log/openstackhelm/tacker*
- `conf.tacker.DEFAULT.service_plugins`
 - Type: string
 - Description:
 - *nfvo,vnfm*
- `conf.tacker.alarm_auth`
 - Type: object
 - Description:
 - *{}*
- `conf.tacker.ceilometer.host`
 - Type: string
 - Description:
 - *tacker-api.openstack.svc.cluster.local*
- `conf.tacker.ceilometer.port`
 - Type: int
 - Description:
 - *9890*
- `conf.tacker.cors.allow_headers`
 - Type: string

- Description:
 - *Content-Type,Version,Accept,X-Auth-Token*
- `conf.tacker.cors.allow_methods`
 - Type: string
 - Description:
 - *GET,POST,PUT,DELETE,PATCH,OPTIONS*
- `conf.tacker.cors.allowed_origin`
 - Type: string
 - Description:
 - *
- `conf.tacker.cors.enabled`
 - Type: bool
 - Description:
 - *true*
- `conf.tacker.cors.expose_headers`
 - Type: string
 - Description:
 - *Content-Type,Accept,Cache-Control,Content-Language,X-Subject-Token*
- `conf.tacker.cors.max_age`
 - Type: int
 - Description:
 - *3600*
- `conf.tacker.database.connection_recycle_time`
 - Type: int
 - Description:
 - *10*
- `conf.tacker.database.max_pool_size`
 - Type: int
 - Description:
 - *1*
- `conf.tacker.database.max_retries`
 - Type: string
 - Description:
 - *-1*

- `conf.tacker.glance_store.filesystem_store_datadir`
 - Type: string
 - Description:
 - */var/lib/tacker/csar_files*
- `conf.tacker.keystone_authtoken.auth_type`
 - Type: string
 - Description:
 - *password*
- `conf.tacker.keystone_authtoken.auth_version`
 - Type: string
 - Description:
 - *v3*
- `conf.tacker.keystone_authtoken.cafile`
 - Type: string
 - Description:
 -
- `conf.tacker.keystone_authtoken.memcache_security_strategy`
 - Type: string
 - Description:
 - *ENCRYPT*
- `conf.tacker.keystone_authtoken.service_token_roles_required`
 - Type: bool
 - Description:
 - *true*
- `conf.tacker.keystone_authtoken.service_type`
 - Type: string
 - Description:
 - *nfv-orchestration*
- `conf.tacker.nfvo.vim_drivers`
 - Type: string
 - Description:
 - *openstack*
- `conf.tacker.openstack_vim.stack_retries`
 - Type: int

- Description:
 - *60*
- `conf.tacker.openstack_vim.stack_retry_wait`
 - Type: int
 - Description:
 - *10*
- `conf.tacker.oslo_messaging_notifications.driver`
 - Type: string
 - Description:
 - *noop*
- `conf.tacker.tacker.alarm_monitor_driver`
 - Type: string
 - Description:
 - *ceilometer*
- `conf.tacker.tacker.monitor_driver`
 - Type: string
 - Description:
 - *ping,http_ping*
- `conf.tacker.vim_keys.use_barbican`
 - Type: bool
 - Description:
 - *true*
- `dependencies.static.conductor.jobs[0]`
 - Type: string
 - Description:
 - *tacker-db-sync*
- `dependencies.static.conductor.jobs[1]`
 - Type: string
 - Description:
 - *tacker-ks-user*
- `dependencies.static.conductor.jobs[2]`
 - Type: string
 - Description:
 - *tacker-ks-endpoints*

- dependencies.static.conductor.jobs[3]
 - Type: string
 - Description:
 - *tacker-rabbit-init*
- dependencies.static.conductor.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.conductor.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.conductor.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.conductor.services[2].service
 - Type: string
 - Description:
 - *key_manager*
- dependencies.static.db_drop.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_drop.services[0].service
 - Type: string

- Description:
 - *oslo_db*
- dependencies.static.db_init.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_init.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.db_sync.jobs[0]
 - Type: string
 - Description:
 - *tacker-db-init*
- dependencies.static.db_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.db_sync.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.ks_endpoints.jobs[0]
 - Type: string
 - Description:
 - *tacker-ks-service*
- dependencies.static.ks_endpoints.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_endpoints.services[0].service
 - Type: string
 - Description:
 - *identity*

- dependencies.static.ks_service.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_service.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.server.jobs[0]
 - Type: string
 - Description:
 - *tacker-db-sync*
- dependencies.static.server.jobs[1]
 - Type: string
 - Description:
 - *tacker-ks-user*
- dependencies.static.server.jobs[2]
 - Type: string
 - Description:
 - *tacker-ks-endpoints*
- dependencies.static.server.jobs[3]
 - Type: string
 - Description:
 - *tacker-rabbit-init*
- dependencies.static.server.services[0].endpoint
 - Type: string

- Description:
 - *internal*
- dependencies.static.server.services[0].service
 - Type: string
 - Description:
 - *oslo_db*
- dependencies.static.server.services[1].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.server.services[1].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.server.services[2].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.server.services[2].service
 - Type: string
 - Description:
 - *key_manager*
- dependencies.static.tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.tests.services[0].service
 - Type: string
 - Description:
 - *identity*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*

- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.tacker.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.tacker.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.tacker.project_name
 - Type: string

- Description:
 - *service*
- endpoints.identity.auth.tacker.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.tacker.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.tacker.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.tacker.username
 - Type: string
 - Description:
 - *tacker*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:
 - *keystone*

- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.key_manager.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.key_manager.hosts.default
 - Type: string
 - Description:
 - *barbican-api*
- endpoints.key_manager.hosts.public
 - Type: string
 - Description:
 - *barbican*
- endpoints.key_manager.name
 - Type: string
 - Description:
 - *barbican*
- endpoints.key_manager.path.default
 - Type: string

- Description:
 - */v1*
- endpoints.key_manager.port.api.default
 - Type: int
 - Description:
 - *9311*
- endpoints.key_manager.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.key_manager.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.nfv_orchestration.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.nfv_orchestration.hosts.conductor
 - Type: string
 - Description:
 - *tacker-conductor*
- endpoints.nfv_orchestration.hosts.default
 - Type: string
 - Description:
 - *tacker-api*
- endpoints.nfv_orchestration.hosts.public
 - Type: string
 - Description:
 - *tacker*
- endpoints.nfv_orchestration.name
 - Type: string
 - Description:
 - *tacker*

- endpoints.nfv_orchestration.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.nfv_orchestration.port.api.default
 - Type: int
 - Description:
 - *9890*
- endpoints.nfv_orchestration.port.api.public
 - Type: int
 - Description:
 - *80*
- endpoints.nfv_orchestration.port.conductor.default
 - Type: int
 - Description:
 - *5672*
- endpoints.nfv_orchestration.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.oslo_cache.auth.memcache_secret_key
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_cache.hosts.default
 - Type: string
 - Description:
 - *memcached*
- endpoints.oslo_cache.port.memcache.default
 - Type: int

- Description:
 - *11211*
- endpoints.oslo_db.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *mariadb-tls-direct*
- endpoints.oslo_db.auth.admin.username
 - Type: string
 - Description:
 - *root*
- endpoints.oslo_db.auth.tacker.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_db.auth.tacker.username
 - Type: string
 - Description:
 - *tacker*
- endpoints.oslo_db.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_db.hosts.default
 - Type: string
 - Description:
 - *mariadb*
- endpoints.oslo_db.path
 - Type: string
 - Description:
 - */tacker*

- endpoints.oslo_db.port.mysql.default
 - Type: int
 - Description:
 - *3306*
- endpoints.oslo_db.scheme
 - Type: string
 - Description:
 - *mysql+pymysql*
- endpoints.oslo_messaging.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.admin.secret.tls.internal
 - Type: string
 - Description:
 - *rabbitmq-tls-direct*
- endpoints.oslo_messaging.auth.admin.username
 - Type: string
 - Description:
 - *rabbitmq*
- endpoints.oslo_messaging.auth.tacker.password
 - Type: string
 - Description:
 - *password*
- endpoints.oslo_messaging.auth.tacker.username
 - Type: string
 - Description:
 - *tacker*
- endpoints.oslo_messaging.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oslo_messaging.hosts.default
 - Type: string

- Description:
 - *rabbitmq*
- endpoints.oslo_messaging.path
 - Type: string
 - Description:
 - */tacker*
- endpoints.oslo_messaging.port.amqp.default
 - Type: int
 - Description:
 - *5672*
- endpoints.oslo_messaging.port.http.default
 - Type: int
 - Description:
 - *15672*
- endpoints.oslo_messaging.scheme
 - Type: string
 - Description:
 - *rabbit*
- endpoints.oslo_messaging.statefulset.name
 - Type: string
 - Description:
 - *rabbitmq-rabbitmq*
- endpoints.oslo_messaging.statefulset.replicas
 - Type: int
 - Description:
 - *2*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*

- `images.local_registry.exclude[0]`
 - Type: string
 - Description:
 - *dep_check*
- `images.local_registry.exclude[1]`
 - Type: string
 - Description:
 - *image_repo_sync*
- `images.pull_policy`
 - Type: string
 - Description:
 - *IfNotPresent*
- `images.tags.db_drop`
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- `images.tags.db_init`
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- `images.tags.dep_check`
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal*
- `images.tags.ks_endpoints`
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- `images.tags.ks_service`
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- `images.tags.ks_user`
 - Type: string

- Description:
- *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.rabbit_init
 - Type: string
 - Description:
 - *docker.io/rabbitmq:3.13-management*
- images.tags.scripted_test
 - Type: string
 - Description:
 - *docker.io/openstackhelm/openstack-client:2024.1*
- images.tags.tacker_conductor
 - Type: string
 - Description:
 - *quay.io/airshipit/tacker:2024.1-ubuntu_jammy*
- images.tags.tacker_db_sync
 - Type: string
 - Description:
 - *quay.io/airshipit/tacker:2024.1-ubuntu_jammy*
- images.tags.tacker_server
 - Type: string
 - Description:
 - *quay.io/airshipit/tacker:2024.1-ubuntu_jammy*
- labels.conductor.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.conductor.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*

- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.server.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.server.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- labels.test.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.test.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.certificates
 - Type: bool
 - Description:
 - *false*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:
 - *true*
- manifests.deployment_conductor
 - Type: bool

- Description:
 - *true*
- manifests.deployment_server
 - Type: bool
 - Description:
 - *true*
- manifests.ingress_api
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_drop
 - Type: bool
 - Description:
 - *false*
- manifests.job_db_init
 - Type: bool
 - Description:
 - *true*
- manifests.job_db_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_endpoints
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_service
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*

- manifests.job_rabbit_init
 - Type: bool
 - Description:
 - *true*
- manifests.pod_test
 - Type: bool
 - Description:
 - *true*
- manifests.pvc
 - Type: bool
 - Description:
 - *true*
- manifests.secret_db
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_rabbitmq
 - Type: bool
 - Description:
 - *true*
- manifests.service_api
 - Type: bool
 - Description:
 - *true*
- manifests.service_conductor
 - Type: bool
 - Description:
 - *true*
- manifests.service_ingress_api
 - Type: bool

- Description:
 - *true*
- network.api.external_policy_local
 - Type: bool
 - Description:
 - *false*
- network.api.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.api.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.api.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.api.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.api.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.api.node_port.port
 - Type: int
 - Description:
 - *30900*
- network.conductor.external_policy_local
 - Type: bool
 - Description:
 - *false*

- network.conductor.ingress.annotations.nginx.ingress.kubernetes.io/rewrite-target
 - Type: string
 - Description:
 - /
- network.conductor.ingress.classes.cluster
 - Type: string
 - Description:
 - *nginx-cluster*
- network.conductor.ingress.classes.namespace
 - Type: string
 - Description:
 - *nginx*
- network.conductor.ingress.public
 - Type: bool
 - Description:
 - *true*
- network.conductor.node_port.enabled
 - Type: bool
 - Description:
 - *false*
- network.conductor.node_port.port
 - Type: int
 - Description:
 - *30901*
- pod.lifecycle.termination_grace_period.conductor.timeout
 - Type: int
 - Description:
 - *30*
- pod.lifecycle.termination_grace_period.server.timeout
 - Type: int
 - Description:
 - *30*
- pod.mounts.tacker_db_sync.tacker_db_sync.volumeMounts
 - Type: string

- Description:
 - *nil*
- pod.mounts.tacker_db_sync.tacker_db_sync.volumes
 - Type: string
 - Description:
 - *nil*
- pod.mounts.tacker_tests.init_container
 - Type: string
 - Description:
 - *nil*
- pod.mounts.tacker_tests.tacker_tests.volumeMounts
 - Type: string
 - Description:
 - *nil*
- pod.mounts.tacker_tests.tacker_tests.volumes
 - Type: string
 - Description:
 - *nil*
- pod.replicas.conductor
 - Type: int
 - Description:
 - *1*
- pod.replicas.server
 - Type: int
 - Description:
 - *1*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.db_drop.limits.cpu
 - Type: string
 - Description:
 - *2000m*

- pod.resources.jobs.db_drop.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_drop.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_drop.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_init.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_init.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.db_init.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_init.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.db_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.db_sync.limits.memory
 - Type: string

- Description:
 - *1024Mi*
- pod.resources.jobs.db_sync.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.db_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_endpoints.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_endpoints.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_endpoints.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_endpoints.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_service.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_service.limits.memory
 - Type: string
 - Description:
 - *1024Mi*

- pod.resources.jobs.ks_service.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_service.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.tests.requests.cpu
 - Type: string

- Description:
 - *100m*
- pod.resources.jobs.tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.security_context.conductor.pod.runAsNonRoot
 - Type: bool
 - Description:
 - *false*
- pod.security_context.conductor.pod.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.server.pod.runAsNonRoot
 - Type: bool
 - Description:
 - *false*
- pod.security_context.server.pod.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.security_context.test.container.tacker_test.allowPrivilegeEscalation
 - Type: bool
 - Description:
 - *false*
- pod.security_context.test.container.tacker_test.readOnlyRootFilesystem
 - Type: bool
 - Description:
 - *true*
- pod.security_context.test.pod.runAsNonRoot
 - Type: bool
 - Description:
 - *false*

- pod.security_context.test.pod.runAsUser
 - Type: int
 - Description:
 - *0*
- pod.tolerations.tacker.enabled
 - Type: bool
 - Description:
 - *false*
- pod.tolerations.tacker.tolerations[0].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.tacker.tolerations[0].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/master*
- pod.tolerations.tacker.tolerations[0].operator
 - Type: string
 - Description:
 - *Exists*
- pod.tolerations.tacker.tolerations[1].effect
 - Type: string
 - Description:
 - *NoSchedule*
- pod.tolerations.tacker.tolerations[1].key
 - Type: string
 - Description:
 - *node-role.kubernetes.io/control-plane*
- pod.tolerations.tacker.tolerations[1].operator
 - Type: string
 - Description:
 - *Exists*
- secrets.identity.admin
 - Type: string

- Description:
 - *tacker-keystone-admin*
- secrets.identity.tacker
 - Type: string
 - Description:
 - *tacker-keystone-user*
- secrets.oci_image_registry.tacker
 - Type: string
 - Description:
 - *tacker-oci-image-registry*
- secrets.oslo_db.admin
 - Type: string
 - Description:
 - *tacker-db-admin*
- secrets.oslo_db.tacker
 - Type: string
 - Description:
 - *tacker-db-user*
- secrets.oslo_messaging.admin
 - Type: string
 - Description:
 - *tacker-rabbitmq-admin*
- secrets.oslo_messaging.tacker
 - Type: string
 - Description:
 - *tacker-rabbitmq-user*
- secrets.tls.nfv_orchestration.api.internal
 - Type: string
 - Description:
 - *tacker-tls-internal*
- secrets.tls.nfv_orchestration.api.public
 - Type: string
 - Description:
 - *tacker-tls-public*

- storage.storageClass
 - Type: string
 - Description:
 - *general*
- storage.volumes.csar_files.mount_path
 - Type: string
 - Description:
 - */var/lib/tacker/csar_files*
- storage.volumes.csar_files.name
 - Type: string
 - Description:
 - *tacker-csar-files*
- storage.volumes.csar_files.size
 - Type: string
 - Description:
 - *2Gi*
- storage.volumes.logs.mount_path
 - Type: string
 - Description:
 - */var/log/openstackhelm/tacker*
- storage.volumes.logs.name
 - Type: string
 - Description:
 - *tacker-logs*
- storage.volumes.logs.size
 - Type: string
 - Description:
 - *2Gi*
- storage.volumes.vnfpackages.mount_path
 - Type: string
 - Description:
 - */var/lib/tacker/vnfpackages*
- storage.volumes.vnfpackages.name
 - Type: string

- Description:
- *tacker-vnfpackages*
- storage.volumes.vnfpackages.size
 - Type: string
 - Description:
 - *2Gi*
- tls.identity
 - Type: bool
 - Description:
 - *false*
- tls.oslo_db
 - Type: bool
 - Description:
 - *false*
- tls.oslo_messaging
 - Type: bool
 - Description:
 - *false*

3.25 Tempest

There are various customizations you can do to tailor the deployment of OpenStack Tempest. You can find those below.

3.25.1 General Parameters

- conf.cleanup.enabled
 - Type: bool
 - Description:
 - *true*
- conf.cleanup.force
 - Type: bool
 - Description:
 - *false*
- conf.script
 - Type: string
 - Description:

```
– tempest run --config-file /etc/tempest/tempest.conf -w 4 --smoke
```

- `conf.tempest.auth.admin_domain_name`
 - Type: string
 - Description:
 - *nil*
- `conf.tempest.auth.admin_password`
 - Type: string
 - Description:
 - *nil*
- `conf.tempest.auth.admin_project_name`
 - Type: string
 - Description:
 - *nil*
- `conf.tempest.auth.admin_username`
 - Type: string
 - Description:
 - *nil*
- `conf.tempest.auth.use_dynamic_credentials`
 - Type: bool
 - Description:
 - *true*
- `conf.tempest.dashboard`
 - Type: object
 - Description:
 - *{}*
- `conf.tempest.heat_plugin.admin_password`
 - Type: string
 - Description:
 - *nil*
- `conf.tempest.heat_plugin.admin_project_name`
 - Type: string
 - Description:
 - *nil*
- `conf.tempest.heat_plugin.admin_username`

- Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.auth_url
 - Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.auth_version
 - Type: int
 - Description:
 - 3
- conf.tempest.heat_plugin.password
 - Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.project_domain_name
 - Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.project_name
 - Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.region
 - Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.user_domain_name
 - Type: string
 - Description:
 - *nil*
- conf.tempest.heat_plugin.username
 - Type: string
 - Description:

- *nil*
- conf.tempest.identity-feature-enabled.api_v3
 - Type: bool
 - Description:
 - *true*
- conf.tempest.identity-feature-enabled.domain_specific_drivers
 - Type: bool
 - Description:
 - *true*
- conf.tempest.identity.admin_domain_scope
 - Type: bool
 - Description:
 - *false*
- conf.tempest.identity.auth_version
 - Type: string
 - Description:
 - *v3*
- conf.tempest.identity.region
 - Type: string
 - Description:
 - *nil*
- conf.tempest.identity.uri_v3
 - Type: string
 - Description:
 - *nil*
- conf.tempest.image.container_formats
 - Type: string
 - Description:
 - *bare*
- conf.tempest.image.disk_formats
 - Type: string
 - Description:
 - *raw*
- conf.tempest.image.http_image

- Type: string
 - Description:
 - *http://download.cirros-cloud.net/0.6.2/cirros-0.6.2-x86_64-disk.img*
- conf.tempest.network-feature-enabled.api_extensions[0]
 - Type: string
 - Description:
 - *default-subnetpools*
- conf.tempest.network-feature-enabled.api_extensions[10]
 - Type: string
 - Description:
 - *external-net*
- conf.tempest.network-feature-enabled.api_extensions[11]
 - Type: string
 - Description:
 - *flavors*
- conf.tempest.network-feature-enabled.api_extensions[12]
 - Type: string
 - Description:
 - *net-mtu*
- conf.tempest.network-feature-enabled.api_extensions[13]
 - Type: string
 - Description:
 - *availability_zone*
- conf.tempest.network-feature-enabled.api_extensions[14]
 - Type: string
 - Description:
 - *quotas*
- conf.tempest.network-feature-enabled.api_extensions[15]
 - Type: string
 - Description:
 - *l3-ha*
- conf.tempest.network-feature-enabled.api_extensions[16]
 - Type: string
 - Description:

- *provider*
- conf.tempest.network-feature-enabled.api_extensions[17]
 - Type: string
 - Description:
 - *multi-provider*
- conf.tempest.network-feature-enabled.api_extensions[18]
 - Type: string
 - Description:
 - *address-scope*
- conf.tempest.network-feature-enabled.api_extensions[19]
 - Type: string
 - Description:
 - *extraroute*
- conf.tempest.network-feature-enabled.api_extensions[1]
 - Type: string
 - Description:
 - *network-ip-availability*
- conf.tempest.network-feature-enabled.api_extensions[20]
 - Type: string
 - Description:
 - *subnet-service-types*
- conf.tempest.network-feature-enabled.api_extensions[21]
 - Type: string
 - Description:
 - *standard-attr-timestamp*
- conf.tempest.network-feature-enabled.api_extensions[22]
 - Type: string
 - Description:
 - *service-type*
- conf.tempest.network-feature-enabled.api_extensions[23]
 - Type: string
 - Description:
 - *l3-flavors*
- conf.tempest.network-feature-enabled.api_extensions[24]

- Type: string
 - Description:
 - *port-security*
- conf.tempest.network-feature-enabled.api_extensions[25]
 - Type: string
 - Description:
 - *extra_dhcp_opt*
- conf.tempest.network-feature-enabled.api_extensions[26]
 - Type: string
 - Description:
 - *standard-attr-revisions*
- conf.tempest.network-feature-enabled.api_extensions[27]
 - Type: string
 - Description:
 - *pagination*
- conf.tempest.network-feature-enabled.api_extensions[28]
 - Type: string
 - Description:
 - *sorting*
- conf.tempest.network-feature-enabled.api_extensions[29]
 - Type: string
 - Description:
 - *security-group*
- conf.tempest.network-feature-enabled.api_extensions[2]
 - Type: string
 - Description:
 - *network_availability_zone*
- conf.tempest.network-feature-enabled.api_extensions[30]
 - Type: string
 - Description:
 - *dhcp_agent_scheduler*
- conf.tempest.network-feature-enabled.api_extensions[31]
 - Type: string
 - Description:

- *router_availability_zone*
- conf.tempest.network-feature-enabled.api_extensions[32]
 - Type: string
 - Description:
 - *rbac-policies*
- conf.tempest.network-feature-enabled.api_extensions[33]
 - Type: string
 - Description:
 - *standard-attr-description*
- conf.tempest.network-feature-enabled.api_extensions[34]
 - Type: string
 - Description:
 - *router*
- conf.tempest.network-feature-enabled.api_extensions[35]
 - Type: string
 - Description:
 - *allowed-address-pairs*
- conf.tempest.network-feature-enabled.api_extensions[36]
 - Type: string
 - Description:
 - *project-id*
- conf.tempest.network-feature-enabled.api_extensions[37]
 - Type: string
 - Description:
 - *dvr*
- conf.tempest.network-feature-enabled.api_extensions[3]
 - Type: string
 - Description:
 - *auto-allocated-topology*
- conf.tempest.network-feature-enabled.api_extensions[4]
 - Type: string
 - Description:
 - *ext-gw-mode*
- conf.tempest.network-feature-enabled.api_extensions[5]

- Type: string
 - Description:
 - *binding*
- conf.tempest.network-feature-enabled.api_extensions[6]
 - Type: string
 - Description:
 - *agent*
- conf.tempest.network-feature-enabled.api_extensions[7]
 - Type: string
 - Description:
 - *subnet_allocation*
- conf.tempest.network-feature-enabled.api_extensions[8]
 - Type: string
 - Description:
 - *l3_agent_scheduler*
- conf.tempest.network-feature-enabled.api_extensions[9]
 - Type: string
 - Description:
 - *tag*
- conf.tempest.network-feature-enabled.floating_ips
 - Type: bool
 - Description:
 - *true*
- conf.tempest.network.project_networks_reachable
 - Type: bool
 - Description:
 - *false*
- conf.tempest.network.shared_physical_network
 - Type: bool
 - Description:
 - *true*
- conf.tempest.service_available.cinder
 - Type: bool
 - Description:

- *true*
- conf.tempest.service_available.glance
 - Type: bool
 - Description:
 - *true*
- conf.tempest.service_available.heat
 - Type: bool
 - Description:
 - *false*
- conf.tempest.service_available.neutron
 - Type: bool
 - Description:
 - *false*
- conf.tempest.service_available.nova
 - Type: bool
 - Description:
 - *false*
- conf.tempest.service_available.swift
 - Type: bool
 - Description:
 - *false*
- conf.tempest.validation.connect_method
 - Type: string
 - Description:
 - *floating*
- conf.tempest.volume.backend_names
 - Type: string
 - Description:
 - *rbd1*
- conf.tempest.volume.catalog_type
 - Type: string
 - Description:
 - *volumev3*
- conf.tempest.volume.disk_formats

- Type: string
 - Description:
 - *raw*
- `conf.tempest.volume.storage_protocol`
 - Type: string
 - Description:
 - *rbd*
- `conf.tempest_logging.formatter_default.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.tempest_logging.formatter_default.format`
 - Type: string
 - Description:
 - *%(message)s*
- `conf.tempest_logging.formatter_tests.class`
 - Type: string
 - Description:
 - *oslo_log.formatters.ContextFormatter*
- `conf.tempest_logging.formatter_tests.datefmt`
 - Type: string
 - Description:
 - *%Y-%m-%d %H:%M:%S*
- `conf.tempest_logging.formatters.keys[0]`
 - Type: string
 - Description:
 - *tests*
- `conf.tempest_logging.formatters.keys[1]`
 - Type: string
 - Description:
 - *default*
- `conf.tempest_logging.handler_null.args`
 - Type: string
 - Description:

- ()
- conf.tempest_logging.handler_null.class
 - Type: string
 - Description:
 - *logging.NullHandler*
- conf.tempest_logging.handler_null.formatter
 - Type: string
 - Description:
 - *default*
- conf.tempest_logging.handler_stdout.args
 - Type: string
 - Description:
 - *(sys.stdout,)*
- conf.tempest_logging.handler_stdout.class
 - Type: string
 - Description:
 - *StreamHandler*
- conf.tempest_logging.handler_stdout.formatter
 - Type: string
 - Description:
 - *tests*
- conf.tempest_logging.handler_stdout.level
 - Type: string
 - Description:
 - *WARN*
- conf.tempest_logging.handlers.keys[0]
 - Type: string
 - Description:
 - *stdout*
- conf.tempest_logging.handlers.keys[1]
 - Type: string
 - Description:
 - *null*
- conf.tempest_logging.logger_root.handlers[0]

- Type: string
 - Description:
 - *null*
- `conf.tempest_logging.logger_root.level`
 - Type: string
 - Description:
 - *DEBUG*
- `conf.tempest_logging.logger_tempest.handlers[0]`
 - Type: string
 - Description:
 - *stdout*
- `conf.tempest_logging.logger_tempest.level`
 - Type: string
 - Description:
 - *WARN*
- `conf.tempest_logging.logger_tempest.propagate`
 - Type: int
 - Description:
 - *0*
- `conf.tempest_logging.logger_tempest.qualname`
 - Type: string
 - Description:
 - *tempest*
- `conf.tempest_logging.loggers.keys[0]`
 - Type: string
 - Description:
 - *root*
- `conf.tempest_logging.loggers.keys[1]`
 - Type: string
 - Description:
 - *tempest*
- `dependencies.dynamic.common.local_image_registry.jobs[0]`
 - Type: string
 - Description:

- *tempest-image-repo-sync*
- dependencies.dynamic.common.local_image_registry.services[0].endpoint
 - Type: string
 - Description:
 - *node*
- dependencies.dynamic.common.local_image_registry.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.image_repo_sync.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.image_repo_sync.services[0].service
 - Type: string
 - Description:
 - *local_image_registry*
- dependencies.static.ks_user.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.ks_user.services[0].service
 - Type: string
 - Description:
 - *identity*
- dependencies.static.run_tests.jobs[0]
 - Type: string
 - Description:
 - *tempest-ks-user*
- dependencies.static.run_tests.services[0].endpoint
 - Type: string
 - Description:
 - *internal*
- dependencies.static.run_tests.services[0].service

- Type: string
 - Description:
 - *identity*
- endpoints.cluster_domain_suffix
 - Type: string
 - Description:
 - *cluster.local*
- endpoints.dashboard.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.dashboard.hosts.default
 - Type: string
 - Description:
 - *horizon-int*
- endpoints.dashboard.hosts.public
 - Type: string
 - Description:
 - *horizon*
- endpoints.dashboard.name
 - Type: string
 - Description:
 - *horizon*
- endpoints.dashboard.path.default
 - Type: string
 - Description:
 - *nil*
- endpoints.dashboard.port.web.default
 - Type: int
 - Description:
 - *80*
- endpoints.dashboard.scheme.default
 - Type: string
 - Description:

- *http*
- endpoints.identity.auth.admin.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.admin.project_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.project_name
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.admin.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.admin.user_domain_name
 - Type: string
 - Description:
 - *default*
- endpoints.identity.auth.admin.username
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.tempest.password
 - Type: string
 - Description:
 - *password*
- endpoints.identity.auth.tempest.project_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.tempest.project_name

- Type: string
 - Description:
 - *service*
- endpoints.identity.auth.tempest.region_name
 - Type: string
 - Description:
 - *RegionOne*
- endpoints.identity.auth.tempest.role
 - Type: string
 - Description:
 - *admin*
- endpoints.identity.auth.tempest.user_domain_name
 - Type: string
 - Description:
 - *service*
- endpoints.identity.auth.tempest.username
 - Type: string
 - Description:
 - *tempest*
- endpoints.identity.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.identity.hosts.default
 - Type: string
 - Description:
 - *keystone*
- endpoints.identity.hosts.internal
 - Type: string
 - Description:
 - *keystone-api*
- endpoints.identity.name
 - Type: string
 - Description:

- *keystone*
- endpoints.identity.path.default
 - Type: string
 - Description:
 - */v3*
- endpoints.identity.port.api.default
 - Type: int
 - Description:
 - *80*
- endpoints.identity.port.api.internal
 - Type: int
 - Description:
 - *5000*
- endpoints.identity.scheme.default
 - Type: string
 - Description:
 - *http*
- endpoints.local_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.local_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.hosts.internal
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.hosts.node
 - Type: string
 - Description:
 - *localhost*
- endpoints.local_image_registry.name

- Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.namespace
 - Type: string
 - Description:
 - *docker-registry*
- endpoints.local_image_registry.port.registry.node
 - Type: int
 - Description:
 - *5000*
- endpoints.oci_image_registry.auth.enabled
 - Type: bool
 - Description:
 - *false*
- endpoints.oci_image_registry.auth.tempest.password
 - Type: string
 - Description:
 - *password*
- endpoints.oci_image_registry.auth.tempest.username
 - Type: string
 - Description:
 - *tempest*
- endpoints.oci_image_registry.host_fqdn_override.default
 - Type: string
 - Description:
 - *nil*
- endpoints.oci_image_registry.hosts.default
 - Type: string
 - Description:
 - *localhost*
- endpoints.oci_image_registry.name
 - Type: string
 - Description:

- *oci-image-registry*
- endpoints.oci_image_registry.namespace
 - Type: string
 - Description:
 - *oci-image-registry*
- endpoints.oci_image_registry.port.registry.default
 - Type: string
 - Description:
 - *nil*
- helm3_hook
 - Type: bool
 - Description:
 - *true*
- images.local_registry.active
 - Type: bool
 - Description:
 - *false*
- images.local_registry.exclude[0]
 - Type: string
 - Description:
 - *dep_check*
- images.local_registry.exclude[1]
 - Type: string
 - Description:
 - *image_repo_sync*
- images.pull_policy
 - Type: string
 - Description:
 - *IfNotPresent*
- images.tags.dep_check
 - Type: string
 - Description:
 - *quay.io/airshipit/kubernetes-entripoint:latest-ubuntu_focal*
- images.tags.image_repo_sync

- Type: string
 - Description:
 - *docker.io/docker:17.07.0*
- images.tags.ks_user
 - Type: string
 - Description:
 - *quay.io/airshipit/heat:2024.1-ubuntu_jammy*
- images.tags.tempest_run_tests
 - Type: string
 - Description:
 - *docker.io/openstackhelm/tempest:latest-ubuntu_focal*
- jobs.run_tests.backoffLimit
 - Type: int
 - Description:
 - *6*
- jobs.run_tests.restartPolicy
 - Type: string
 - Description:
 - *OnFailure*
- labels.job.node_selector_key
 - Type: string
 - Description:
 - *openstack-control-plane*
- labels.job.node_selector_value
 - Type: string
 - Description:
 - *enabled*
- manifests.configmap_bin
 - Type: bool
 - Description:
 - *true*
- manifests.configmap_etc
 - Type: bool
 - Description:

- *true*
- manifests.job_image_repo_sync
 - Type: bool
 - Description:
 - *true*
- manifests.job_ks_user
 - Type: bool
 - Description:
 - *true*
- manifests.job_run_tests
 - Type: bool
 - Description:
 - *true*
- manifests.secret_keystone
 - Type: bool
 - Description:
 - *true*
- manifests.secret_registry
 - Type: bool
 - Description:
 - *true*
- pod.resources.enabled
 - Type: bool
 - Description:
 - *false*
- pod.resources.jobs.image_repo_sync.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.image_repo_sync.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.image_repo_sync.requests.cpu

- Type: string
 - Description:
 - *100m*
- pod.resources.jobs.image_repo_sync.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.ks_user.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.ks_user.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.ks_user.requests.cpu
 - Type: string
 - Description:
 - *100m*
- pod.resources.jobs.ks_user.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.resources.jobs.run_tests.limits.cpu
 - Type: string
 - Description:
 - *2000m*
- pod.resources.jobs.run_tests.limits.memory
 - Type: string
 - Description:
 - *1024Mi*
- pod.resources.jobs.run_tests.requests.cpu
 - Type: string
 - Description:

- *100m*
- pod.resources.jobs.run_tests.requests.memory
 - Type: string
 - Description:
 - *128Mi*
- pod.user.tempest.uid
 - Type: int
 - Description:
 - *1000*
- pvc.enabled
 - Type: bool
 - Description:
 - *true*
- pvc.name
 - Type: string
 - Description:
 - *pvc-tempest*
- pvc.requests.storage
 - Type: string
 - Description:
 - *2Gi*
- pvc.storage_class
 - Type: string
 - Description:
 - *general*
- secrets.identity.admin
 - Type: string
 - Description:
 - *tempest-keystone-admin*
- secrets.identity.tempest
 - Type: string
 - Description:
 - *tempest-keystone-user*
- secrets.oci_image_registry.tempest

- Type: string
 - Description:
 - *tempest-oci-image-registry*
- secrets.tls.identity.api.internal
 - Type: string
 - Description:
 - *keystone-tls-api*
- secrets.tls.identity.api.public
 - Type: string
 - Description:
 - *keystone-tls-public*
- tls.identity
 - Type: bool
 - Description:
 - *false*

DEVELOPER REFERENCES

Contents:

4.1 Endpoints

The projects goal is to provide a consistent mechanism for endpoints. OpenStack is a highly interconnected application, with various components requiring connectivity details to numerous services, including other OpenStack components and infrastructure elements such as databases, queues, and memcached infrastructure. The projects goal is to ensure that it can provide a consistent mechanism for defining these endpoints across all charts and provide the macros necessary to convert those definitions into usable endpoints. The charts should consistently default to building endpoints that assume the operator is leveraging all charts to build their OpenStack cloud. Endpoints should be configurable if an operator would like a chart to work with their existing infrastructure or run elements in different namespaces.

For instance, in the Neutron chart `values.yaml` the following endpoints are defined:

```
# typically overridden by environmental
# values, but should include all endpoints
# required by this chart
endpoints:
  image:
    hosts:
      default: glance-api
    type: image
    path: null
    scheme: 'http'
    port:
      api: 9292
  compute:
    hosts:
      default: nova-api
    path: "/v2/%(tenant_id)s"
    type: compute
    scheme: 'http'
    port:
      api: 8774
      metadata: 8775
      novncproxy: 6080
  identity:
    hosts:
```

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```

    default: keystone-api
  path: /v3
  type: identity
  scheme: 'http'
  port:
    admin: 35357
    public: 5000
network:
  hosts:
    default: neutron-server
  path: null
  type: network
  scheme: 'http'
  port:
    api: 9696

```

These values define all the endpoints that the Neutron chart may need in order to build full URL compatible endpoints to various services. Long-term, these will also include database, memcached, and rabbitmq elements in one place. Essentially, all external connectivity can be defined centrally.

The macros that help translate these into the actual URLs necessary are defined in the `helm-toolkit` chart. For instance, the `cinder` chart defines a `glance_api_servers` definition in the `cinder.conf` template:

```

{{- if empty .Values.conf.cinder.DEFAULT.glance_api_servers -}}
{{- $_ := tuple "image" "internal" "api" . | include "helm-toolkit.endpoints."
↪keystone_endpoint_uri_lookup" | set .Values.conf.cinder.DEFAULT "glance_api_
↪servers" -}}
{{- end -}}

```

As an example, this line uses the `endpoints.keystone_endpoint_uri_lookup` macro in the `helm-toolkit` chart (since it is used by all charts). Note that there is a second convention here. All `{{ define }}` macros in charts should be pre-fixed with the chart that is defining them. This allows developers to easily identify the source of a Helm macro and also avoid namespace collisions. In the example above, the macro `endpoints.keystone_endpoint_uri_lookup` is defined in the `helm-toolkit` chart. This macro is passing three parameters (aided by the `tuple` method built into the `go/sprig` templating library used by Helm):

- `image`: This is the OpenStack service that the endpoint is being built for. This will be mapped to `glance` which is the image service for OpenStack.
- `internal`: This is the OpenStack endpoint type we are looking for - valid values would be `internal`, `admin`, and `public`
- `api`: This is the port to map to for the service.

Charts should not use hard coded values such as `http://keystone-api:5000` because these are not compatible with operator overrides and do not support spreading components out over various namespaces.

By default, each endpoint is located in the same namespace as the current services helm chart. To connect to a service which is running in a different Kubernetes namespace, a namespace can be provided for each individual endpoint.

4.2 Images

The project's core philosophy regarding images is that the toolsets required to enable the OpenStack services should be applied by Kubernetes itself. This requires OpenStack-Helm to develop common and simple scripts with minimal dependencies that can be overlaid on any image that meets the OpenStack core library requirements. The advantage of this is that the project can be image agnostic, allowing operators to use Stackanetes, Kolla, LOCI, or any image flavor and format they choose and they will all function the same.

A long-term goal, besides being image agnostic, is to also be able to support any of the container runtimes that Kubernetes supports, even those that might not use Docker's own packaging format. This will allow the project to continue to offer maximum flexibility with regard to operator choice.

To that end, all charts provide an `images:` section that allows operators to override images. Also, all default image references should be fully spelled out, even those hosted by Docker or Quay. Further, no default image reference should use `:latest` but rather should be pinned to a specific version to ensure consistent behavior for deployments over time.

Today, the `images:` section has several common conventions. Most OpenStack services require a database initialization function, a database synchronization function, and a series of steps for Keystone registration and integration. Each component may also have a specific image that composes an OpenStack service. The images may or may not differ, but regardless, should all be defined in `images`.

The following standards are in use today, in addition to any components defined by the service itself:

- `dep_check`: The image that will perform dependency checking in an init-container.
- `db_init`: The image that will perform database creation operations for the OpenStack service.
- `db_sync`: The image that will perform database sync (schema initialization and migration) for the OpenStack service.
- `db_drop`: The image that will perform database deletion operations for the OpenStack service.
- `ks_user`: The image that will perform keystone user creation for the service.
- `ks_service`: The image that will perform keystone service registration for the service.
- `ks_endpoints`: The image that will perform keystone endpoint registration for the service.
- `pull_policy`: The image pull policy, one of Always, IfNotPresent, and Never which will be used by all containers in the chart.

An illustrative example of an `images:` section taken from the heat chart:

```
images:
  tags:
    bootstrap: docker.io/openstackhelm/heat:ocata
    db_init: docker.io/openstackhelm/heat:ocata
    db_sync: docker.io/kolla/ubuntu-source-heat-api:ocata
    db_drop: docker.io/openstackhelm/heat:ocata
    ks_user: docker.io/openstackhelm/heat:ocata
    ks_service: docker.io/openstackhelm/heat:ocata
    ks_endpoints: docker.io/openstackhelm/heat:ocata
    api: docker.io/kolla/ubuntu-source-heat-api:ocata
    cfn: docker.io/kolla/ubuntu-source-heat-api:ocata
    cloudwatch: docker.io/kolla/ubuntu-source-heat-api:ocata
```

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```
engine: docker.io/openstackhelm/heat:ocata
dep_check: quay.io/airshipit/kubernetes-entrypoint:latest-ubuntu_focal
pull_policy: "IfNotPresent"
```

The OpenStack-Helm project today uses a mix of Docker images from Stackanetes and Kolla, but will likely standardize on a default set of images for all charts without any reliance on image-specific utilities.

4.3 Networking

Currently OpenStack-Helm supports OpenVSwitch and LinuxBridge as a network virtualization engines. In order to support many possible backends (SDNs), modular architecture of Neutron chart was developed. OpenStack-Helm can support every SDN solution that has Neutron plugin, either `core_plugin` or `mechanism_driver`.

The Neutron reference architecture provides `mechanism_drivers` `OpenVSwitch` (OVS) and `linuxbridge` (LB) with ML2 `core_plugin` framework.

Other networking services provided by Neutron are:

1. L3 routing - creation of routers
2. DHCP - auto-assign IP address and DNS info
3. Metadata - Provide proxy for Nova metadata service

Introducing a new SDN solution should consider how the above services are provided. It maybe required to disable built-in Neutron functionality.

4.3.1 Neutron architecture

Neutron chart includes the following services:

neutron-server

neutron-server is serving the networking REST API for operator and other OpenStack services usage. The internals of Neutron are highly flexible, providing plugin mechanisms for all networking services exposed. The consistent API is exposed to the user, but the internal implementation is up to the chosen SDN.

Typical networking API request is an operation of create/update/delete:

- network
- subnet
- port

Neutron-server service is scheduled on nodes with `openstack-control-plane=enabled` label.

neutron-rpc-server

neutron-rpc-server is serving the networking PRC backend for neutron API services. The internals of Neutron are highly flexible, providing plugin mechanisms for all networking services exposed. The consistent API is exposed to the user, but the internal implementation is up to the chosen SDN.

Typical networking API request is an operation of create/update/delete:

- network
- subnet
- port

To use other Neutron reference architecture types of SDN, these options should be configured in `neutron.conf`:

```
[DEFAULT]
...
# core_plugin - plugin responsible for L2 connectivity and IP address
#                 assignments.
# ML2 (Modular Layer 2) is the core plugin provided by Neutron ref arch
# If other SDN implements its own logic for L2, it should replace the
# ml2 here
core_plugin = ml2

# service_plugins - a list of extra services exposed by Neutron API.
# Example: router, qos, trunk, metering.
# If other SDN implement L3 or other services, it should be configured
# here
service_plugins = router
```

All of the above configs are endpoints or path to the specific class implementing the interface. You can see the endpoints to class mapping in `setup.cfg`.

If the SDN of your choice is using the ML2 core plugin, then the extra options in `neutron/ml2/plugins/ml2_conf.ini` should be configured:

```
[ml2]
# type_drivers - layer 2 technologies that ML2 plugin supports.
# Those are local, flat, vlan, gre, vxlan, geneve
type_drivers = flat, vlan, vxlan

# mech_drivers - implementation of above L2 technologies. This option is
# pointing to the engines like linux bridge or OpenVSwitch in ref arch.
# This is the place where SDN implementing ML2 driver should be configured
mech_drivers = openvswitch, l2population
```

SDNs implementing ML2 driver can add extra/plugin-specific configuration options in `neutron/ml2/plugins/ml2_conf.ini`. Or define its own `ml2_conf_<name>.ini` file where configs specific to the SDN would be placed.

The above configuration options are handled by `neutron/values.yaml`:

```
conf:
  neutron:
    DEFAULT:
      ...
      # core_plugin can be: ml2, calico
      core_plugin: ml2
      # service_plugin can be: router, odl-router, empty for calico,
      # networking_ovn.13.13_ovn.OVNL3RouterPlugin for OVN
```

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```

service_plugins: router

plugins:
  ml2_conf:
    ml2:
      # mechnism_drivers can be: openvswitch, linuxbridge,
      # opendaylight, ovn
      mechanism_drivers: openvswitch,l2population
      type_drivers: flat,vlan,vxlan

```

Neutron-rpc-server service is scheduled on nodes with `openstack-control-plane=enabled` label.

neutron-dhcp-agent

DHCP agent is running dnsmasq process which is serving the IP assignment and DNS info. DHCP agent is dependent on the L2 agent wiring the interface. So one should be aware that when changing the L2 agent, it also needs to be changed in the DHCP agent. The configuration of the DHCP agent includes option `interface_driver`, which will instruct how the tap interface created for serving the request should be wired.

```

conf:
  dhcp_agent:
    DEFAULT:
      # we can define here, which driver we are using:
      # openvswitch or linuxbridge
      interface_driver: openvswitch

```

Another place where the DHCP agent is dependent on L2 agent is the dependency for the L2 agent daemonset:

```

dependencies:
  dynamic:
    targeted:
      openvswitch:
        dhcp:
          pod:
            # this should be set to corresponding neutron L2 agent
            - requireSameNode: true
            labels:
              application: neutron
              component: neutron-ovs-agent

```

There is also a need for DHCP agent to pass ovs agent config file (in `neutron/templates/bin/_neutron-dhcp-agent.sh.tpl`):

```

exec neutron-dhcp-agent \
  --config-file /etc/neutron/neutron.conf \
  --config-file /etc/neutron/dhcp_agent.ini \
  --config-file /etc/neutron/metadata_agent.ini \
  --config-file /etc/neutron/plugins/ml2/ml2_conf.ini

```

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```

{{- if ( has "openvswitch" .Values.network.backend ) }} \
  --config-file /etc/neutron/plugins/ml2/openvswitch_agent.ini
{{- end }}

```

This requirement is OVS specific, the *ovsdb_connection* string is defined in *openvswitch_agent.ini* file, specifying how DHCP agent can connect to ovs. When using other SDNs, running the DHCP agent may not be required. When the SDN solution is addressing the IP assignments in another way, neutrons DHCP agent should be disabled.

neutron-dhcp-agent service is scheduled to run on nodes with the label *openstack-control-plane=enabled*.

neutron-l3-agent

L3 agent is serving the routing capabilities for Neutron networks. It is also dependent on the L2 agent wiring the tap interface for the routers.

All dependencies described in neutron-dhcp-agent are valid here.

If the SDN implements its own version of L3 networking, neutron-l3-agent should not be started.

neutron-l3-agent service is scheduled to run on nodes with the label *openstack-control-plane=enabled*.

neutron-metadata-agent

Metadata-agent is a proxy to nova-metadata service. This one provides information about public IP, hostname, ssh keys, and any tenant specific information. The same dependencies apply for metadata as it is for DHCP and L3 agents. Other SDNs may require to force the config driver in nova, since the metadata service is not exposed by it.

neutron-metadata-agent service is scheduled to run on nodes with the label *openstack-control-plane=enabled*.

4.3.2 Configuring network plugin

To be able to configure multiple networking plugins inside of OpenStack-Helm, a new configuration option is added:

```

network:
  # provide what type of network wiring will be used
  # possible options: openvswitch, linuxbridge, sriov
  backend:
    - openvswitch

```

This option will allow to configure the Neutron services in proper way, by checking what is the actual backed set in *neutron/values.yaml*.

In order to meet modularity criteria of Neutron chart, section *manifests* in *neutron/values.yaml* contains boolean values describing which Neutrons Kubernetes resources should be deployed:

```

manifests:
  configmap_bin: true
  configmap_etc: true
  daemonset_dhcp_agent: true
  daemonset_l3_agent: true

```

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```
daemonset_lb_agent: false
daemonset_metadata_agent: true
daemonset_ovs_agent: true
daemonset_sriov_agent: true
deployment_server: true
deployment_rpc_server: true
ingress_server: true
job_bootstrap: true
job_db_init: true
job_db_sync: true
job_db_drop: false
job_image_repo_sync: true
job_ks_endpoints: true
job_ks_service: true
job_ks_user: true
job_rabbit_init: true
pdb_server: true
pod_rally_test: true
secret_db: true
secret_keystone: true
secret_rabbitmq: true
service_ingress_server: true
service_server: true
```

If `.Values.manifests.daemonset_ovs_agent` will be set to false, neutron ovs agent would not be launched. In that matter, other type of L2 or L3 agent on compute node can be run.

To enable new SDN solution, there should be separate chart created, which would handle the deployment of service, setting up the database and any related networking functionality that SDN is providing.

OpenVSwitch

The ovs set of daemonsets are running on the node labeled `openvswitch=enabled`. This includes the compute and controller/network nodes. For more flexibility, OpenVSwitch as a tool was split out of Neutron chart, and put in separate chart dedicated OpenVSwitch. Neutron OVS agent remains in Neutron chart. Splitting out the OpenVSwitch creates possibilities to use it with different SDNs, adjusting the configuration accordingly.

neutron-ovs-agent

As part of Neutron chart, this daemonset is running Neutron OVS agent. It is dependent on having `openvswitch-db` and `openvswitch-vswitchd` deployed and ready. Since its the default choice of the networking backend, all configuration is in place in `neutron/values.yaml`. `neutron-ovs-agent` should not be deployed when another SDN is used in `network.backend`.

Script in `neutron/templates/bin/_neutron-openvswitch-agent-init.sh.tpl` is responsible for determining the tunnel interface and its IP for later usage by `neutron-ovs-agent`. The IP is set in init container and shared between init container and main container with `neutron-ovs-agent` via file `/tmp/pod-shared/ml2-local-ip.ini`.

Configuration of OVS bridges can be done via `neutron/templates/bin/_neutron-openvswitch-agent-init.sh.tpl`. The script is configuring the external network bridge and sets up any bridge mappings defined

in `conf.auto_bridge_add`. These values should align with `conf.plugins.openvswitch_agent.ovs.bridge_mappings`.

openvswitch-db and openvswitch-vswitchd

This runs the OVS tool and database. OpenVSwitch chart is not Neutron specific, it may be used with other technologies that are leveraging the OVS technology, such as OVN or ODL.

A detail worth mentioning is that ovs is configured to use sockets, rather than the default loopback mechanism.

```
exec /usr/sbin/ovs-vswitchd unix:${OVS_SOCKET} \
  -vconsole:emer \
  -vconsole:err \
  -vconsole:info \
  --pidfile=${OVS_PID} \
  --mlockall
```

Linuxbridge

Linuxbridge is the second type of Neutron reference architecture L2 agent. It is running on nodes labeled `linuxbridge=enabled`. As mentioned before, all nodes that are requiring the L2 services need to be labeled with `linuxbridge`. This includes both the compute and controller/network nodes. It is not possible to label the same node with both `openvswitch` and `linuxbridge` (or any other network virtualization technology) at the same time.

neutron-lb-agent

This daemonset includes the `linuxbridge` Neutron agent with `bridge-utils` and `ebtables` utilities installed. This is all that is needed, since `linuxbridge` uses native kernel libraries.

`neutron/templates/bin/_neutron-linuxbridge-agent-init.sh.tpl` is configuring the tunnel IP, external bridge and all bridge mappings defined in `config`. It is done in `init` container, and the IP for tunneling is shared using file `/tmp/pod-shared/ml2-local-ip.ini` with main `linuxbridge` container.

In order to use `linuxbridge` in your OpenStack-Helm deployment, you need to label the compute and controller/network nodes with `linuxbridge=enabled` and use this `neutron/values.yaml` override:

```
network:
  backend: linuxbridge
dependencies:
  dynamic:
    targeted:
      linuxbridge:
        dhcp:
          pod:
            - requireSameNode: true
            labels:
              application: neutron
              component: neutron-lb-agent
    13:
      pod:
        - requireSameNode: true
```

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```

      labels:
        application: neutron
        component: neutron-lb-agent
    metadata:
      pod:
        - requireSameNode: true
          labels:
            application: neutron
            component: neutron-lb-agent
    lb_agent:
      pod: null
conf:
  neutron:
    DEFAULT
    interface_driver: linuxbridge
  dhcp_agent:
    DEFAULT:
      interface_driver: linuxbridge
  l3_agent:
    DEFAULT:
      interface_driver: linuxbridge

```

Other SDNs

In order to add support for more SDNs, these steps need to be performed:

1. Configure neutron-server with SDN specific core_plugin/mechanism_drivers.
2. If required, add new networking agent label type.
3. Specify if new SDN would like to use existing services from Neutron: L3, DHCP, metadata.
4. Create separate chart with new SDN deployment method.

Nova config dependency

Whenever we change the L2 agent, it should be reflected in nova/values.yaml in dependency resolution for nova-compute.

4.4 OSLO-Config Values

OpenStack-Helm generates oslo-config compatible formatted configuration files for services dynamically from values specified in a yaml tree. This allows operators to control any and all aspects of an OpenStack services configuration. An example snippet for an imaginary Keystone configuration is described here:

```

conf:
  keystone:
    DEFAULT: # Keys at this level are used for section headings
      max_token_size: 255
    token:
      provider: fernet

```

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```

fernet_tokens:
  key_repository: /etc/keystone/fernet-keys/
credential:
  key_repository: /etc/keystone/credential-keys/
database:
  max_retries: -1
cache:
  enabled: true
  backend: dogpile.cache.memcached
oslo_messaging_notifications:
  driver: # An example of a multistring option's syntax
    type: multistring
    values:
      - messagingv2
      - log
security_compliance:
  password_expires_ignore_user_ids:
    # Values in a list will be converted to a comma separated key
    - "123"
    - "456"

```

This will be consumed by the templated `configmap-etc.yaml` manifest to produce the following config file:

```

---
# Source: keystone/templates/configmap-etc.yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: keystone-etc
data:
  keystone.conf: |
    [DEFAULT]
    max_token_size = 255
    transport_url = rabbit://keystone:password@rabbitmq.default.svc.cluster.
↪local:5672/openstack
    [cache]
    backend = dogpile.cache.memcached
    enabled = true
    memcache_servers = memcached.default.svc.cluster.local:11211
    [credential]
    key_repository = /etc/keystone/credential-keys/
    [database]
    connection = mysql+pymysql://keystone:password@mariadb.default.svc.
↪cluster.local:3306/keystone
    max_retries = -1
    [fernet_tokens]
    key_repository = /etc/keystone/fernet-keys/
    [oslo_messaging_notifications]
    driver = messagingv2

```

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```

driver = log
[security_compliance]
password_expires_ignore_user_ids = 123,456
[token]
provider = fernet

```

Note that some additional values have been injected into the config file, this is performed via statements in the configmap template, which also calls the `helm-toolkit.utils.to_oslo_conf` to convert the yaml to the required layout:

```

{{- if empty .Values.conf.keystone.database.connection -}}
{{- $_ := tuple "oslo_db" "internal" "user" "mysql" . | include "helm-toolkit.
→endpoints.authenticated_endpoint_uri_lookup" | set .Values.conf.keystone.
→database "connection" -}}
{{- end -}}

{{- if empty .Values.conf.keystone.DEFAULT.transport_url -}}
{{- $_ := tuple "oslo_messaging" "internal" "user" "amqp" . | include "helm-
→toolkit.endpoints.authenticated_endpoint_uri_lookup" | set .Values.conf.
→keystone.DEFAULT "transport_url" -}}
{{- end -}}

{{- if empty .Values.conf.keystone.cache.memcache_servers -}}
{{- $_ := tuple "oslo_cache" "internal" "memcache" . | include "helm-toolkit.
→endpoints.host_and_port_endpoint_uri_lookup" | set .Values.conf.keystone.
→cache "memcache_servers" -}}
{{- end -}}

---
apiVersion: v1
kind: ConfigMap
metadata:
  name: keystone-etc
data:
  keystone.conf: |
  {{ include "helm-toolkit.utils.to_oslo_conf" .Values.conf.keystone | indent 4
  →}}
  {{- end -}}

```

4.5 Pod Disruption Budgets

OpenStack-Helm leverages `PodDisruptionBudgets` to enforce quotas that ensure that a certain number of replicas of a pod are available at any given time. This is particularly important in the case when a Kubernetes node needs to be drained.

These quotas are configurable by modifying the `minAvailable` field within each `PodDisruptionBudget` manifest, which is conveniently mapped to a templated variable inside the `values.yaml` file. The `min_available` within each services `values.yaml` file can be represented by either a whole number, such as 1, or a percentage, such as 80%. For example, when deploying 5 replicas of a pod (such as `keystone-api`), using `min_available: 3` would enforce policy to ensure at least 3 replicas were

running, whereas using `min_available: 80%` would ensure that 4 replicas of that pod are running.

Note: The values defined in a `PodDisruptionBudget` may conflict with other values that have been provided if an operator chooses to leverage Rolling Updates for deployments. In the case where an operator defines a `maxUnavailable` and `maxSurge` within an update strategy that is higher than a `minAvailable` within a pod disruption budget, a scenario may occur where pods fail to be evicted from a deployment.

4.6 Upgrades and Reconfiguration

The OpenStack-Helm project assumes all upgrades will be done through Helm. This includes handling several different resource types. First, changes to the Helm chart templates themselves are handled. Second, all of the resources layered on top of the container image, such as `ConfigMaps` which includes both scripts and configuration files, are updated during an upgrade. Finally, any image references will result in rolling updates of containers, replacing them with the updating image.

As Helm stands today, several issues exist when you update images within charts that might have been used by jobs that already ran to completion or are still in flight. An example of where this behavior would be desirable is when an updated `db_sync` image has updated to point from one openstack release to another. In this case, the operator will likely want a `db_sync` job, which was already run and completed during site installation, to run again with the updated image to bring the schema inline with the Newton release.

The OpenStack-Helm project also implements annotations across all chart `configmaps` so that changing resources inside containers, such as configuration files, triggers a Kubernetes rolling update. This means that those resources can be updated without deleting and redeploying the service and can be treated like any other upgrade, such as a container image change.

Note: Rolling update values can conflict with values defined in each services `PodDisruptionBudget`. See [here](#) for more information.

This is accomplished with the following annotation:

```
...
annotations:
  configmap-bin-hash: {{ tuple "configmap-bin.yaml" . | include "helm-toolkit.
↪utils.hash" }}
  configmap-etc-hash: {{ tuple "configmap-etc.yaml" . | include "helm-toolkit.
↪utils.hash" }}
```

The hash function defined in the `helm-toolkit` chart ensures that any change to any file referenced by `configmap-bin.yaml` or `configmap-etc.yaml` results in a new hash, which will then trigger a rolling update.

All Deployment chart components are outfitted by default with rolling update strategies:

```
# Source: keystone/templates/deployment-api.yaml
spec:
  replicas: {{ .Values.pod.replicas.api }}
  {{ tuple $envAll | include "helm-toolkit.snippets.kubernetes_upgrades_
↪deployment" | indent 2 }}
```

In `values.yaml` in each chart, the same defaults are supplied in every chart, which allows the operator to override at upgrade or deployment time.

```
pod:
  lifecycle:
    upgrades:
      deployments:
        revision_history: 3
        pod_replacement_strategy: RollingUpdate
      rolling_update:
        max_unavailable: 1
        max_surge: 3
```

4.7 Logging Mechanism

4.7.1 Logging Requirements

OpenStack-Helm defines a centralized logging mechanism to provide insight into the state of the OpenStack services and infrastructure components as well as underlying Kubernetes platform. Among the requirements for a logging platform, where log data can come from and where log data need to be delivered are very variable. To support various logging scenarios, OpenStack-Helm should provide a flexible mechanism to meet with certain operation needs.

4.7.2 EFK (Elasticsearch, Fluent-bit & Fluentd, Kibana) based Logging Mechanism

OpenStack-Helm provides fast and lightweight log forwarder and full featured log aggregator complementing each other providing a flexible and reliable solution. Especially, Fluent-bit is used as a log forwarder and Fluentd is used as a main log aggregator and processor.

Fluent-bit, Fluentd meet OpenStack-Helms logging requirements for gathering, aggregating, and delivering of logged events. Fluent-bit runs as a daemonset on each node and mounts the `/var/lib/docker/containers` directory. The Docker container runtime engine directs events posted to stdout and stderr to this directory on the host. Fluent-bit then forward the contents of that directory to Fluentd. Fluentd runs as deployment at the designated nodes and expose service for Fluent-bit to forward logs. Fluentd should then apply the Logstash format to the logs. Fluentd can also write kubernetes and OpenStack metadata to the logs. Fluentd will then forward the results to Elasticsearch and to optionally Kafka. Elasticsearch indexes the logs in a `logstash-*` index by default. Kafka stores the logs in a `logs` topic by default. Any external tool can then consume the logs topic.

The resulting logs can then be queried directly through Elasticsearch, or they can be viewed via Kibana. Kibana offers a dashboard that can create custom views on logged events, and Kibana integrates well with Elasticsearch by default.

4.8 Node and node label specific daemonset configurations

A typical Helm daemonset may leverage a secret to store configuration data. However, there are cases where the same secret document cant be used for the entire daemonset, because there are node-specific differences.

To address this use-case, the `helm-toolkit.utils.daemonset_overrides` template was added in `helm-toolkit`. This was created with the intention that it should be straightforward to convert (wrap) a pre-existing daemonset with the functionality to override secret parameters on a per-node or per-nodelabel basis.

4.8.1 Adapting your daemonset to support node/nodelabel overrides

Consider the following (simplified) secret and daemonset pairing example:

```
# Simplified secret definition
# =====
---
apiVersion: v1
kind: Secret
# Note ref to $secretName for dynamically generated secrets
metadata:
  name: mychart-etc
data:
  myConf: {{ include "helm-toolkit.utils.template" | b64enc }}

# Simplified daemonset definition
# =====
---
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: mychart-name
spec:
  template:
    spec:
      containers:
        - name: my-container
      volumes:
        - name: mychart-etc
      secret:
        name: mychart-etc
        defaultMode: 0444
```

Assume the chart name is mychart.

Now we can wrap the existing YAML to make it support node and nodelabel overrides, with minimal changes to the existing YAML (note where \$secretName has been substituted):

```
# Simplified secret definition needed for node/nodelabel overrides
# -----
# Wrap secret definition
{{- define "mychart.secret.etc" }}
{{- $secretName := index . 0 }}
{{- $envAll := index . 1 }}
# Set to the same env context as was available to the caller, so we can
# access any env data needed to build the template (e.g., envAll.Values...)
{{- with $envAll }}
---
apiVersion: v1
kind: Secret
# Note ref to $secretName for dynamically generated secrets
metadata:
```

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```

    name: {{ $secretName }}
data:
  myConf: {{ include "helm-toolkit.utils.template" | b64enc }}
{{- end }}
{{- end }}

# Simplified daemonset definition needed for node/nodelabel overrides
# -----
# Wrap daemonset definition
{{- define "mychart.daemonset" }}
{{- $daemonset := index . 0 }}
{{- $secretName := index . 1 }}
{{- $envAll := index . 2 }}
# Set to the same env context as was available to the caller, so we can
# access any env data needed to build the template (e.g., envAll.Values...)
{{- with $envAll }}
---
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: {{ $daemonset }}
spec:
  template:
    spec:
      containers:
      - name: {{ $daemonset }}
      volumes:
        # Note refs to $secretName for dynamically generated secrets
      - name: {{ $secretName }}
        secret:
          name: {{ $secretName }}
          defaultMode: 0444
{{- end }}
{{- end }}
# Desired daemonset name/prefix that helm will register with kubernetes
# Note that this needs to be a valid dns-1123 name for a k8s resource
{{- $daemonset := "mydaemonset" }}
# Desired secret name/prefix that helm will register with kubernetes
# Note that this needs to be a valid dns-1123 name for a k8s resource
{{- $secretName := "mychart-etc" }}
# Generate the daemonset YAML with a matching/consistent secretName (so
# daemonset_overrides knows which volumes to dynamically substitute with the
# auto-generated secrets). You may include in this list any other vars
# which you need to reference or substitute into the daemonset YAML above.
{{- $daemonset_yaml := list $secretName . | include "mychart.daemonset" |
↳ toString | fromYaml }}
# Namespace to the secret definition which will be used/manipulated
{{- $secret_include := "mychart.secret.etc" }}
# Pass all these elements to daemonset_overrides to generate secret/daemonset

```

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```
# pairings for each set of overrides (plus one with no overrides)
{{- list $daemonset $daemonset_yaml $secret_include $secretName . | include
  ↪ "helm-toolkit.utils.daemonset_overrides" }}
```

Your daemonset should now support node and nodelabel level overrides. (Note that you will also need your chart to have helm-toolkit listed as a dependency.)

4.8.2 Implementation details of node/nodelabel overrides

Instead of having one daemonset with one monolithic secret, this helm-toolkit feature permits a common daemonset and secret template, from which daemonset and secret pairings are auto-generated. It supports establishing value overrides for nodes with specific label value pairs and for targeting nodes with specific hostnames and hostlabels. The overridden configuration is merged with the normal config data, with the override data taking precedence.

The chart will then generate one daemonset for each host and label override, in addition to a default daemonset for which no overrides are applied. Each daemonset generated will also exclude from its scheduling criteria all other hosts and labels defined in other overrides for the same daemonset, to ensure that there is no overlap of daemonsets (i.e., one and only one daemonset of a given type for each node).

For example, if you have some special conf setting that should be applied to `host1.fqdn`, and another special conf setting that should be applied to nodes labeled with `someNodeLabel`, then three secret/daemonset pairs will be generated and registered with kubernetes: one for `host1.fqdn`, one for `someNodeLabel`, and one for `default`.

The order of precedence for matches is FQDN, node label, and then default. If a node matches both a FQDN and a nodelabel, then only the FQDN override is applied. Pay special attention to adding FQDN overrides for nodes that match a nodelabel override, as you would need to duplicate the nodelabel overrides for that node in the FQDN overrides for them to still apply.

If there is no matching FQDN and no matching nodelabel, then the default daemonset/secret (with no overrides applied) is used.

If a node matches more than one nodelabel, only the last matching nodelabel will apply (last in terms of the order the overrides are defined in the YAML).

4.8.3 Exercising node/nodelabel overrides

The following example demonstrates how to exercise the node/nodelabel overrides:

```
data:
  values:
    conf:
      mychart:
        foo: 1
      # "overrides" keyword to invoke override behavior
    overrides:
      # To match these overrides to the right daemonset, the following key
      # needs to follow the pattern:
      # Chart.Name + '_' + $daemonset
      # where $daemonset is the value set for $daemonset in the daemonset
      # config above.
      mychart_mydaemonset:
```

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```

# labels dict contains a list of labels which overrides apply to.
↪Dict may be excluded
# if there are no labels to override.
# Note - if a host satisfies more than one label in this list, then
↪whichever matching
# label is furthestest down on the list will be the one applied to
↪the node. E.g., if
# a host matched both label criteria below, then the overrides for
↪"another_label"
# would be applied.
labels:
# node label key and values to match against to apply these
↪config overrides.
# The values are ORed, so the daemonset will spawn to all nodes
↪to node_type
# set to "foo" and to all nodes with node_type set to "bar".
- label:
  key: node_type
  values:
  - "foo"
  - "bar"
# The setting overrides that will be applied for hosts with this
↪host label
conf:
  mychart:
    foo: 2
# another label/key to match against to apply different overrides
- label:
  key: another_label
  values:
  - "another_value"
# The setting overrides that will be applied for hosts with this
↪host label
conf:
  mychart:
    foo: 3
# hosts dict contains a list of hosts which overrides apply to.
↪Dict may be excluded
# if there are no hosts to override.
hosts:
# FQDN of the host to override settings on
- name: superhost
# The setting overrides that will be applied for this host
conf:
  mychart:
    foo: 4
# FQDN of another host to override settings on
- name: superhost2
# The setting overrides that will be applied for this host

```

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```

conf:
  mychart:
    foo: 5

```

4.8.4 Nova vcpu example

Some nodes may have a different `vcpu_pin_set` in `nova.conf` due to differences in CPU hardware.

To address this, we can specify overrides in the values fed to the chart. Ex:

```

conf:
  nova:
    DEFAULT:
      vcpu_pin_set: "0-31"
      cpu_allocation_ratio: 3.0
    overrides:
      nova_compute:
        labels:
          - label:
              key: compute-type
              values:
                - "dpdk"
                - "sriov"
            conf:
              nova:
                DEFAULT:
                  vcpu_pin_set: "0-15"
          - label:
              key: another-label
              values:
                - "another-value"
            conf:
              nova:
                DEFAULT:
                  vcpu_pin_set: "16-31"
        hosts:
          - name: host1.fqdn
            conf:
              nova:
                DEFAULT:
                  vcpu_pin_set: "8-15"
          - name: host2.fqdn
            conf:
              nova:
                DEFAULT:
                  vcpu_pin_set: "16-23"

```

Note that only one set of overrides is applied per node, such that:

1. Host overrides supercede label overrides
2. The farther down the list the label appears, the greater precedence it has. e.g., another-label over-

rides will apply to a node containing both labels.

Also note that other non-overridden values are inherited by hosts and labels with overrides. The following shows a set of example hosts and the values fed into each:

1. host1.fqdn with labels compute-type: dpdk, sriov and another-label: another-value:

```
conf:
  nova:
    DEFAULT:
      vcpu_pin_set: "8-15"
      cpu_allocation_ratio: 3.0
```

2. host2.fqdn with labels compute-type: dpdk, sriov and another-label: another-value:

```
conf:
  nova:
    DEFAULT:
      vcpu_pin_set: "16-23"
      cpu_allocation_ratio: 3.0
```

3. host3.fqdn with labels compute-type: dpdk, sriov and another-label: another-value:

```
conf:
  nova:
    DEFAULT:
      vcpu_pin_set: "16-31"
      cpu_allocation_ratio: 3.0
```

4. host4.fqdn with labels compute-type: dpdk, sriov:

```
conf:
  nova:
    DEFAULT:
      vcpu_pin_set: "0-15"
      cpu_allocation_ratio: 3.0
```

5. host5.fqdn with no labels:

```
conf:
  nova:
    DEFAULT:
      vcpu_pin_set: "0-31"
      cpu_allocation_ratio: 3.0
```

5.1 Helm Tests

Every OpenStack-Helm chart should include any required Helm tests necessary to provide a sanity check for the OpenStack service. Information on using the Helm testing framework can be found in the [Helm repository](#). Currently, the Rally testing framework is used to provide these checks for the core services. The Keystone Helm test template can be used as a reference, and can be found [here](#).

5.1.1 Testing Expectations

Any templates for Helm tests submitted should follow the philosophies applied in the other templates. These include: use of overrides where appropriate, use of endpoint lookups and other common functionality in helm-toolkit, and mounting any required scripting templates via the configmap-bin template for the service chart. If Rally tests are not appropriate or adequate for a service chart, any additional tests should be documented appropriately and adhere to the same expectations.

5.1.2 Running Tests

Any Helm tests associated with a chart can be run by executing:

```
helm test <helm-release-name>
```

The output of the Helm tests can be seen by looking at the logs of the pod created by the Helm tests. These logs can be viewed with:

```
kubectl logs <test-pod-name> -n <namespace>
```

Additional information on Helm tests for OpenStack-Helm and how to execute these tests locally via the scripts used in the gate can be found in the [gates](#) directory.

5.1.3 Adding Tests

All tests should be added to the gates during development, and are required for any new service charts prior to merging. All Helm tests should be included as part of the deployment script. An example of this can be seen in this [script](#).

5.2 Ceph Resiliency

5.2.1 Resiliency Tests for OpenStack-Helm/Ceph

Mission

The goal of our resiliency tests for [OpenStack-Helm/Ceph](#) is to show symptoms of software/hardware failure and provide the solutions.

Caveats:

- Our focus lies on resiliency for various failure scenarios but not on performance or stress testing.

Software Failure

- Monitor failure
- OSD failure

Hardware Failure

- Disk failure
- Host failure

5.2.2 Monitor Failure

Test Environment

- Cluster size: 4 host machines
- Number of disks: 24 (= 6 disks per host * 4 hosts)
- Kubernetes version: 1.9.3
- Ceph version: 12.2.3
- OpenStack-Helm commit: 28734352741bae228a4ea4f40bcacc33764221eb

We have 3 Monitors in this Ceph cluster, one on each of the 3 Monitor hosts.

Case: 1 out of 3 Monitor Processes is Down

This is to test a scenario when 1 out of 3 Monitor processes is down.

To bring down 1 Monitor process (out of 3), we identify a Monitor process and kill it from the monitor host (not a pod).

```
$ ps -ef | grep ceph-mon
ceph      16112 16095  1 14:58 ?          00:00:03 /usr/bin/ceph-mon --cluster_
↪ceph --setuser ceph --setgroup ceph -d -i voyager2 --mon-data /var/lib/ceph/
↪mon/ceph-voyager2 --public-addr 135.207.240.42:6789
$ sudo kill -9 16112
```

In the mean time, we monitored the status of Ceph and noted that it takes about 24 seconds for the killed Monitor process to recover from down to up. The reason is that Kubernetes automatically restarts pods whenever they are killed.

```
(mon-pod):/# ceph -s
cluster:
  id:      fd366aef-b356-4fe7-9ca5-1c313fe2e324
```

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```
health: HEALTH_WARN
        mon voyager1 is low on available space
        1/3 mons down, quorum voyager1,voyager3

services:
  mon: 3 daemons, quorum voyager1,voyager3, out of quorum: voyager2
  mgr: voyager4(active)
  osd: 24 osds: 24 up, 24 in
```

```
(mon-pod):/# ceph -s
cluster:
  id:      fd366aef-b356-4fe7-9ca5-1c313fe2e324
  health: HEALTH_WARN
          mon voyager1 is low on available space
          1/3 mons down, quorum voyager1,voyager2

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager4(active)
  osd: 24 osds: 24 up, 24 in
```

We also monitored the status of the Monitor pod through `kubectl get pods -n ceph`, and the status of the pod (where a Monitor process is killed) changed as follows: `Running -> Error -> Running` and this recovery process takes about 24 seconds.

Case: 2 out of 3 Monitor Processes are Down

This is to test a scenario when 2 out of 3 Monitor processes are down. To bring down 2 Monitor processes (out of 3), we identify two Monitor processes and kill them from the 2 monitor hosts (not a pod).

We monitored the status of Ceph when the Monitor processes are killed and noted that the symptoms are similar to when 1 Monitor process is killed:

- It takes longer (about 1 minute) for the killed Monitor processes to recover from down to up.
- The status of the pods (where the two Monitor processes are killed) changed as follows: `Running -> Error -> CrashLoopBackOff -> Running` and this recovery process takes about 1 minute.

Case: 3 out of 3 Monitor Processes are Down

This is to test a scenario when 3 out of 3 Monitor processes are down. To bring down 3 Monitor processes (out of 3), we identify all 3 Monitor processes and kill them from the 3 monitor hosts (not pods).

We monitored the status of Ceph Monitor pods and noted that the symptoms are similar to when 1 or 2 Monitor processes are killed:

```
$ kubectl get pods -n ceph -o wide | grep ceph-mon
NAME                                READY    STATUS    RESTARTS    AGE
ceph-mon-8tml7                       0/1     Error    4           10d
ceph-mon-kstf8                       0/1     Error    4           10d
ceph-mon-z4sl9                       0/1     Error    7           10d
```

```
$ kubectl get pods -n ceph -o wide | grep ceph-mon
NAME                                READY   STATUS    RESTARTS   AGE
ceph-mon-8tml7                      0/1    CrashLoopBackOff   4         10d
ceph-mon-kstf8                      0/1    Error          4         10d
ceph-mon-z4sl9                      0/1    CrashLoopBackOff   7         10d
```

```
$ kubectl get pods -n ceph -o wide | grep ceph-mon
NAME                                READY   STATUS    RESTARTS   AGE
ceph-mon-8tml7                      1/1    Running    5         10d
ceph-mon-kstf8                      1/1    Running    5         10d
ceph-mon-z4sl9                      1/1    Running    8         10d
```

The status of the pods (where the three Monitor processes are killed) changed as follows: Running -> Error -> CrashLoopBackOff -> Running and this recovery process takes about 1 minute.

Case: Monitor database is destroyed

We intentionally destroy a Monitor database by removing `/var/lib/openstack-helm/ceph/mon/mon/ceph-voyager3/store.db`.

Symptom:

A Ceph Monitor running on `voyager3` (whose Monitor database is destroyed) becomes out of quorum, and the `mon-pods` status stays in `Running -> Error -> CrashLoopBackOff` while keeps restarting.

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
             too few PGs per OSD (22 < min 30)
             mon voyager1 is low on available space
             1/3 mons down, quorum voyager1,voyager2

services:
  mon: 3 daemons, quorum voyager1,voyager2, out of quorum: voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dff-cslr6=up:active}, 1
  ↪up:standby
  osd: 24 osds: 24 up, 24 in
  rgw: 2 daemons active

data:
  pools:   18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage:   2675 MB used, 44675 GB / 44678 GB avail
  pgs:     182 active+clean
```

```
$ kubectl get pods -n ceph -o wide | grep ceph-mon
ceph-mon-4gzzw          1/1      Running      0      └
↪      6d          135.207.240.42    voyager2
ceph-mon-6bbs6          0/1      CrashLoopBackOff  5      └
↪      6d          135.207.240.43    voyager3
ceph-mon-qgc7p          1/1      Running      0      └
↪      6d          135.207.240.41    voyager1
```

The logs of the failed mon-pod shows the ceph-mon process cannot run as `/var/lib/ceph/mon/ceph-voyager3/store.db` does not exist.

```
$ kubectl logs ceph-mon-6bbs6 -n ceph
+ ceph-mon --setuser ceph --setgroup ceph --cluster ceph -i voyager3 --inject-
↪monmap /etc/ceph/monmap-ceph --keyring /etc/ceph/ceph.mon.keyring --mon-
↪data /var/lib/ceph/mon/ceph-voyager3
2018-07-10 18:30:04.546200 7f4ca9ed4f00 -1 rocksdb: Invalid argument: /var/
↪lib/ceph/mon/ceph-voyager3/store.db: does not exist (create_if_missing is └
↪false)
2018-07-10 18:30:04.546214 7f4ca9ed4f00 -1 error opening mon data directory └
↪at '/var/lib/ceph/mon/ceph-voyager3': (22) Invalid argument
```

Recovery:

Remove the entire ceph-mon directory on voyager3, and then Ceph will automatically recreate the database by using the other ceph-mons database.

```
$ sudo rm -rf /var/lib/openstack-helm/ceph/mon/mon/ceph-voyager3
```

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
             too few PGs per OSD (22 < min 30)
             mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dff-cslr6=up:active}, 1 └
↪up:standby
  osd: 24 osds: 24 up, 24 in
  rgw: 2 daemons active

data:
  pools:   18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage:   2675 MB used, 44675 GB / 44678 GB avail
  pgs:    182 active+clean
```

5.2.3 OSD Failure

Test Environment

- Cluster size: 4 host machines
- Number of disks: 24 (= 6 disks per host * 4 hosts)
- Kubernetes version: 1.9.3
- Ceph version: 12.2.3
- OpenStack-Helm commit: 28734352741bae228a4ea4f40bcacc33764221eb

Case: OSD processes are killed

This is to test a scenario when some of the OSDs are down.

To bring down 6 OSDs (out of 24), we identify the OSD processes and kill them from a storage host (not a pod).

```
$ ps -ef|grep /usr/bin/ceph-osd
ceph      44587 43680  1 18:12 ?          00:00:01 /usr/bin/ceph-osd --cluster_
↪ceph --osd-journal /dev/sdb5 -f -i 4 --setuser ceph --setgroup disk
ceph      44627 43744  1 18:12 ?          00:00:01 /usr/bin/ceph-osd --cluster_
↪ceph --osd-journal /dev/sdb2 -f -i 6 --setuser ceph --setgroup disk
ceph      44720 43927  2 18:12 ?          00:00:01 /usr/bin/ceph-osd --cluster_
↪ceph --osd-journal /dev/sdb6 -f -i 3 --setuser ceph --setgroup disk
ceph      44735 43868  1 18:12 ?          00:00:01 /usr/bin/ceph-osd --cluster_
↪ceph --osd-journal /dev/sdb1 -f -i 9 --setuser ceph --setgroup disk
ceph      44806 43855  1 18:12 ?          00:00:01 /usr/bin/ceph-osd --cluster_
↪ceph --osd-journal /dev/sdb4 -f -i 0 --setuser ceph --setgroup disk
ceph      44896 44011  2 18:12 ?          00:00:01 /usr/bin/ceph-osd --cluster_
↪ceph --osd-journal /dev/sdb3 -f -i 1 --setuser ceph --setgroup disk
root      46144 45998  0 18:13 pts/10   00:00:00 grep --color=auto /usr/bin/
↪ceph-osd

$ sudo kill -9 44587 44627 44720 44735 44806 44896
```

```
(mon-pod):/# ceph -s
cluster:
  id:      fd366aef-b356-4fe7-9ca5-1c313fe2e324
  health: HEALTH_WARN
          6 osds down
          1 host (6 osds) down
          Reduced data availability: 8 pgs inactive, 58 pgs peering
          Degraded data redundancy: 141/1002 objects degraded (14.072%),
↪133 pgs degraded
          mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager4(active)
  osd: 24 osds: 18 up, 24 in
```


In the mean time, we monitor the status of Ceph and noted that it takes about 30 seconds for the 6 OSDs to recover from down to up. The reason is that Kubernetes automatically restarts OSD pods whenever they are killed.

```
(mon-pod):/# ceph -s
cluster:
  id:          fd366aef-b356-4fe7-9ca5-1c313fe2e324
  health: HEALTH_WARN
              mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager4(active)
  osd: 24 osds: 24 up, 24 in
```

Case: A OSD pod is deleted

This is to test a scenario when an OSD pod is deleted by `kubect1 delete $OSD_POD_NAME`. Meanwhile, we monitor the status of Ceph and note that it takes about 90 seconds for the OSD running in deleted pod to recover from down to up.

```
root@voyager3:/# ceph -s
cluster:
  id:          fd366aef-b356-4fe7-9ca5-1c313fe2e324
  health: HEALTH_WARN
              1 osds down
              Degraded data redundancy: 43/945 objects degraded (4.550%), 35
↪pgs degraded, 109 pgs undersized
              mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager4(active)
  osd: 24 osds: 23 up, 24 in
```

```
(mon-pod):/# ceph -s
cluster:
  id:          fd366aef-b356-4fe7-9ca5-1c313fe2e324
  health: HEALTH_WARN
              mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager4(active)
  osd: 24 osds: 24 up, 24 in
```

We also monitored the pod status through `kubect1 get pods -n ceph` during this process. The deleted OSD pod status changed as follows: `Terminating -> Init:1/3 -> Init:2/3 -> Init:3/3 -> Running`, and this process takes about 90 seconds. The reason is that Kubernetes automatically restarts OSD pods whenever they are deleted.

5.2.4 Disk Failure

Test Environment

- Cluster size: 4 host machines
- Number of disks: 24 (= 6 disks per host * 4 hosts)
- Kubernetes version: 1.10.5
- Ceph version: 12.2.3
- OpenStack-Helm commit: 25e50a34c66d5db7604746f4d2e12acbdd6c1459

Case: A disk fails

Symptom:

This is to test a scenario when a disk failure happens. We monitor the ceph status and notice one OSD (osd.2) on voyager4 which has /dev/sdh as a backend is down.

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
             too few PGs per OSD (23 < min 30)
             mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dff-cslr6=up:active}, 1
↪up:standby
  osd: 24 osds: 23 up, 23 in
  rgw: 2 daemons active

data:
  pools:   18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage:   2548 MB used, 42814 GB / 42816 GB avail
  pgs:    182 active+clean
```

```
(mon-pod):/# ceph osd tree
ID CLASS WEIGHT  TYPE NAME                STATUS REWEIGHT PRI-AFF
-1          43.67981 root default
-9          10.91995  host voyager1
 5 hdd   1.81999    osd.5                up   1.00000 1.00000
 6 hdd   1.81999    osd.6                up   1.00000 1.00000
10 hdd   1.81999    osd.10               up   1.00000 1.00000
17 hdd   1.81999    osd.17               up   1.00000 1.00000
19 hdd   1.81999    osd.19               up   1.00000 1.00000
21 hdd   1.81999    osd.21               up   1.00000 1.00000
-3          10.91995  host voyager2
 1 hdd   1.81999    osd.1                up   1.00000 1.00000
```

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```

 4 hdd 1.81999          osd.4      up 1.00000 1.00000
11 hdd 1.81999          osd.11     up 1.00000 1.00000
13 hdd 1.81999          osd.13     up 1.00000 1.00000
16 hdd 1.81999          osd.16     up 1.00000 1.00000
18 hdd 1.81999          osd.18     up 1.00000 1.00000
-2      10.91995        host voyager3
 0 hdd 1.81999          osd.0      up 1.00000 1.00000
 3 hdd 1.81999          osd.3      up 1.00000 1.00000
12 hdd 1.81999          osd.12     up 1.00000 1.00000
20 hdd 1.81999          osd.20     up 1.00000 1.00000
22 hdd 1.81999          osd.22     up 1.00000 1.00000
23 hdd 1.81999          osd.23     up 1.00000 1.00000
-4      10.91995        host voyager4
 2 hdd 1.81999          osd.2      down      0 1.00000
 7 hdd 1.81999          osd.7      up 1.00000 1.00000
 8 hdd 1.81999          osd.8      up 1.00000 1.00000
 9 hdd 1.81999          osd.9      up 1.00000 1.00000
14 hdd 1.81999          osd.14     up 1.00000 1.00000
15 hdd 1.81999          osd.15     up 1.00000 1.00000

```

Solution:

To replace the failed OSD, execute the following procedure:

1. From the Kubernetes cluster, remove the failed OSD pod, which is running on voyager4:

```

$ kubectl label nodes --all ceph_maintenance_window=inactive
$ kubectl label nodes voyager4 --overwrite ceph_maintenance_window=active
$ kubectl patch -n ceph ds ceph-osd-default-64779b8c -p='{"spec":{"template":{"
→"spec":{"nodeSelector":{"ceph-osd":"enabled","ceph_maintenance_window":
→"inactive"}}}}}'

```

Note: To find the daemonset associated with a failed OSD, check out the followings:

```

(voyager4)$ ps -ef | grep /usr/bin/ceph-osd
(voyager1)$ kubectl get ds -n ceph
(voyager1)$ kubectl get ds <daemonset-name> -n ceph -o yaml

```

2. Remove the failed OSD (OSD ID = 2 in this example) from the Ceph cluster:

```

(mon-pod):/# ceph osd lost 2
(mon-pod):/# ceph osd crush remove osd.2
(mon-pod):/# ceph auth del osd.2
(mon-pod):/# ceph osd rm 2

```

3. Find that Ceph is healthy with a lost OSD (i.e., a total of 23 OSDs):

```

(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad

```

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```

health: HEALTH_WARN
        too few PGs per OSD (23 < min 30)
        mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dffc-cslr6=up:active}, 1
↳up:standby
  osd: 23 osds: 23 up, 23 in
  rgw: 2 daemons active

data:
  pools: 18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage: 2551 MB used, 42814 GB / 42816 GB avail
  pgs: 182 active+clean

```

4. Replace the failed disk with a new one. If you repair (not replace) the failed disk, you may need to run the following:

```
(voyager4)$ parted /dev/sdh mklabel msdos
```

5. Start a new OSD pod on voyager4:

```
$ kubectl label nodes voyager4 --overwrite ceph_maintenance_window=inactive
```

6. Validate the Ceph status (i.e., one OSD is added, so the total number of OSDs becomes 24):

```

(mon-pod):/# ceph -s
cluster:
  id: 9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
        too few PGs per OSD (22 < min 30)
        mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dffc-cslr6=up:active}, 1
↳up:standby
  osd: 24 osds: 24 up, 24 in
  rgw: 2 daemons active

data:
  pools: 18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage: 2665 MB used, 44675 GB / 44678 GB avail
  pgs: 182 active+clean

```

5.2.5 Host Failure

Test Environment

- Cluster size: 4 host machines
- Number of disks: 24 (= 6 disks per host * 4 hosts)
- Kubernetes version: 1.10.5
- Ceph version: 12.2.3
- OpenStack-Helm commit: 25e50a34c66d5db7604746f4d2e12acbdd6c1459

Case: One host machine where ceph-mon is running is rebooted

Symptom:

After reboot (node voyager3), the node status changes to NotReady.

```
$ kubectl get nodes
NAME          STATUS    ROLES    AGE    VERSION
voyager1     Ready    master   6d     v1.10.5
voyager2     Ready    <none>   6d     v1.10.5
voyager3     NotReady <none>   6d     v1.10.5
voyager4     Ready    <none>   6d     v1.10.5
```

Ceph status shows that ceph-mon running on voyager3 becomes out of quorum. Also, six osds running on voyager3 are down; i.e., 18 osds are up out of 24 osds.

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
              6 osds down
              1 host (6 osds) down
              Degraded data redundancy: 195/624 objects degraded (31.250%), 8
↪pgs degraded
              too few PGs per OSD (17 < min 30)
              mon voyager1 is low on available space
              1/3 mons down, quorum voyager1,voyager2

services:
  mon: 3 daemons, quorum voyager1,voyager2, out of quorum: voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dffc-cslr6=up:active}, 1
↪up:standby
  osd: 24 osds: 18 up, 24 in
  rgw: 2 daemons active

data:
  pools:   18 pools, 182 pgs
  objects: 208 objects, 3359 bytes
  usage:   2630 MB used, 44675 GB / 44678 GB avail
```

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```
pgs:      195/624 objects degraded (31.250%)
          126 active+undersized
          48 active+clean
          8 active+undersized+degraded
```

Recovery:

The node status of `voyager3` changes to `Ready` after the node is up again. Also, Ceph pods are restarted automatically. Ceph status shows that the monitor running on `voyager3` is now in quorum.

```
$ kubectl get nodes
NAME          STATUS    ROLES    AGE    VERSION
voyager1     Ready    master   6d     v1.10.5
voyager2     Ready    <none>   6d     v1.10.5
voyager3     Ready    <none>   6d     v1.10.5
voyager4     Ready    <none>   6d     v1.10.5
```

```
(mon-pod):/# ceph -s
cluster:
  id:      9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
           too few PGs per OSD (22 < min 30)
           mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dff-cslr6=up:active}, 1
  ↪up:standby
  osd: 24 osds: 24 up, 24 in
  rgw: 2 daemons active

data:
  pools: 18 pools, 182 pgs
  objects: 208 objects, 3359 bytes
  usage: 2635 MB used, 44675 GB / 44678 GB avail
  pgs: 182 active+clean
```

Case: A host machine where ceph-mon is running is down

This is for the case when a host machine (where ceph-mon is running) is down.

Symptom:

After the host is down (node `voyager3`), the node status changes to `NotReady`.

```
$ kubectl get nodes
NAME          STATUS    ROLES    AGE    VERSION
voyager1     Ready    master   14d    v1.10.5
```

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voyager2	Ready	<none>	14d	v1.10.5
voyager3	NotReady	<none>	14d	v1.10.5
voyager4	Ready	<none>	14d	v1.10.5

Ceph status shows that ceph-mon running on `voyager3` becomes out of quorum. Also, 6 osds running on `voyager3` are down (i.e., 18 out of 24 osds are up). Some placement groups become degraded and undersized.

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
              6 osds down
              1 host (6 osds) down
              Degraded data redundancy: 227/720 objects degraded (31.528%), 8
↪pgs
  degraded
              too few PGs per OSD (17 < min 30)
              mon voyager1 is low on available space
              1/3 mons down, quorum voyager1,voyager2

services:
  mon: 3 daemons, quorum voyager1,voyager2, out of quorum: voyager3
  mgr: voyager1(active), standbys: voyager3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dffc-cslr6=up:active}, 1
↪up:stan
  dby
      osd: 24 osds: 18 up, 24 in
      rgw: 2 daemons active

data:
  pools: 18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage: 2695 MB used, 44675 GB / 44678 GB avail
  pgs: 227/720 objects degraded (31.528%)
      126 active+undersized
      48 active+clean
      8 active+undersized+degraded
```

The pod status of ceph-mon and ceph-osd shows as `NodeLost`.

```
$ kubectl get pods -n ceph -o wide | grep voyager3
ceph-mgr-55f68d44b8-hncrq          1/1      Unknown    6
↪8d          135.207.240.43    voyager3
ceph-mon-6bbs6                    1/1      NodeLost   8
↪8d          135.207.240.43    voyager3
ceph-osd-default-64779b8c-lbkcd   1/1      NodeLost   1
↪6d          135.207.240.43    voyager3
ceph-osd-default-6ea9de2c-gp7zm   1/1      NodeLost   2
↪8d          135.207.240.43    voyager3
```

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ceph-osd-default-7544b6da-7mfdc	1/1	NodeLost	2	└
↔8d 135.207.240.43 voyager3				
ceph-osd-default-7cfc44c1-hhk8v	1/1	NodeLost	2	└
↔8d 135.207.240.43 voyager3				
ceph-osd-default-83945928-b95qs	1/1	NodeLost	2	└
↔8d 135.207.240.43 voyager3				
ceph-osd-default-f9249fa9-n7p4v	1/1	NodeLost	3	└
↔8d 135.207.240.43 voyager3				

After 10+ minutes, Ceph starts rebalancing with one node lost (i.e., 6 osds down) and the status stabilizes with 18 osds.

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
              mon voyager1 is low on available space
              1/3 mons down, quorum voyager1,voyager2

services:
  mon: 3 daemons, quorum voyager1,voyager2, out of quorum: voyager3
  mgr: voyager1(active), standbys: voyager2
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dff6-cslr6=up:active}, 1
↔up:standby
  osd: 24 osds: 18 up, 18 in
  rgw: 2 daemons active

data:
  pools: 18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage: 2025 MB used, 33506 GB / 33508 GB avail
  pgs: 182 active+clean
```

Recovery:

The node status of `voyager3` changes to `Ready` after the node is up again. Also, Ceph pods are restarted automatically. The Ceph status shows that the monitor running on `voyager3` is now in quorum and 6 osds gets back up (i.e., a total of 24 osds are up).

```
(mon-pod):/# ceph -s
cluster:
  id:          9d4d8c61-cf87-4129-9cef-8fbf301210ad
  health: HEALTH_WARN
              too few PGs per OSD (22 < min 30)
              mon voyager1 is low on available space

services:
  mon: 3 daemons, quorum voyager1,voyager2,voyager3
  mgr: voyager1(active), standbys: voyager2
```

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```

  mds: cephfs-1/1/1 up {0=mds-ceph-mds-65bb45dffc-cslr6=up:active}, 1
↪up:standby
  osd: 24 osds: 24 up, 24 in
  rgw: 2 daemons active

data:
  pools: 18 pools, 182 pgs
  objects: 240 objects, 3359 bytes
  usage: 2699 MB used, 44675 GB / 44678 GB avail
  pgs: 182 active+clean

```

Also, the pod status of ceph-mon and ceph-osd changes from NodeLost back to Running.

```

$ kubectl get pods -n ceph -o wide | grep voyager3
ceph-mon-6bbs6                1/1      Running   9
↪8d      135.207.240.43   voyager3
ceph-osd-default-64779b8c-lbkcd  1/1      Running   2
↪7d      135.207.240.43   voyager3
ceph-osd-default-6ea9de2c-gp7zm  1/1      Running   3
↪8d      135.207.240.43   voyager3
ceph-osd-default-7544b6da-7mfdc  1/1      Running   3
↪8d      135.207.240.43   voyager3
ceph-osd-default-7cfc44c1-hhk8v  1/1      Running   3
↪8d      135.207.240.43   voyager3
ceph-osd-default-83945928-b95qs  1/1      Running   3
↪8d      135.207.240.43   voyager3
ceph-osd-default-f9249fa9-n7p4v  1/1      Running   4
↪8d      135.207.240.43   voyager3

```

5.3 Ceph Upgrade

This guide documents steps showing Ceph version upgrade. The main goal of this document is to demonstrate Ceph chart update without downtime for OSH components.

5.3.1 Test Scenario:

Upgrade Ceph component version from 12.2.4 to 12.2.5 without downtime to OSH components.

5.3.2 Setup:

- 3 Node (VM based) env.
- Followed OSH multinode guide steps to setup nodes and install K8s cluster
- Followed OSH multinode guide steps upto Ceph install

5.3.3 Plan:

- 1) Install Ceph charts (12.2.4) by updating Docker images in overrides.
- 2) Install OSH components as per OSH multinode guide.
- 3) Upgrade Ceph charts to version 12.2.5 by updating docker images in overrides.

5.3.4 Docker Images:

- 1) Ceph Luminous point release images for Ceph components

```
Ceph 12.2.4: ceph/daemon:master-0351083-luminous-ubuntu-16.04-x86_64
Ceph 12.2.5: ceph/daemon:master-a8d20ed-luminous-ubuntu-16.04-x86_64
```

- 2) Ceph RBD provisioner docker images.

```
quay.io/external_storage/rbd-provisioner:v0.1.0
quay.io/external_storage/rbd-provisioner:v0.1.1
```

- 3) Ceph Cephfs provisioner docker images.

```
quay.io/external_storage/cephfs-provisioner:v0.1.1
quay.io/external_storage/cephfs-provisioner:v0.1.2
```

5.3.5 Steps:

Note

Follow all steps from OSH multinode guide with below changes.

- 1) Install Ceph charts (version 12.2.4)

Update ceph install script `./tools/deployment/multinode/030-ceph.sh` to add `images:` section in overrides as shown below.

Note

OSD count is set to 3 based on env setup.

Note

Following is a partial part from script to show changes.

```
tee /tmp/ceph.yaml << EOF
...
network:
  public: ${CEPH_PUBLIC_NETWORK}
  cluster: ${CEPH_CLUSTER_NETWORK}
images:
  tags:
    ceph_bootstrap: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-
↪16.04-x86_64'
    ceph_config_helper: 'docker.io/openstackhelm/ceph-config-helper:latest-
↪ubuntu_focal'
    ceph_rbd_pool: 'docker.io/openstackhelm/ceph-config-helper:latest-
↪ubuntu_focal'
```

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```

ceph_mon_check: 'docker.io/openstackhelm/ceph-config-helper:latest-
↳ubuntu_focal'
ceph_mon: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-16.04-
↳x86_64'
ceph_osd: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-16.04-
↳x86_64'
ceph_mds: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-16.04-
↳x86_64'
ceph_mgr: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-16.04-
↳x86_64'
ceph_rgw: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-16.04-
↳x86_64'
ceph_cephfs_provisioner: 'quay.io/external_storage/cephfs-
↳provisioner:v0.1.1'
ceph_rbd_provisioner: 'quay.io/external_storage/rbd-provisioner:v0.1.0'
conf:
  ceph:
    global:
      fsid: ${CEPH_FS_ID}
    rgw_ks:
      enabled: true
    pool:
      crush:
        tunables: ${CRUSH_TUNABLES}
      target:
        # NOTE(portdirect): 5 nodes, with one osd per node
        osd: 5
        pg_per_osd: 100
    ...
EOF

```

Note

ceph_bootstrap, ceph-config_helper and ceph_rbs_pool images are used for jobs. ceph_mon_check has one script that is stable so no need to upgrade.

2) Deploy and Validate Ceph

```

+ kubectl exec -n ceph ceph-mon-4c8xs -- ceph -s
cluster:
  id:      39061799-d25e-4f3b-8c1a-a350e4c6d06c
  health: HEALTH_OK

services:
  mon: 3 daemons, quorum mnode1,mnode2,mnode3
  mgr: mnode2(active), standbys: mnode3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-745576757f-4v4=up:active}, 1
↳up:standby
  osd: 3 osds: 3 up, 3 in

```

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```
rgw: 2 daemons active

data:
  pools: 18 pools, 93 pgs
  objects: 208 objects, 3359 bytes
  usage: 72175 MB used, 75739 MB / 144 GB avail
  pgs: 93 active+clean
```

3) Check Ceph Pods

```
ubuntu@mmode1:/opt/openstack-helm$ kubectl get pods -n ceph
NAME                                READY   STATUS    RESTARTS   AGE
ceph-bootstrap-s4jkk                0/1    Completed 0           10m
ceph-cephfs-client-key-generator-6bmzz 0/1    Completed 0           3m
ceph-mds-745576757f-4vdn4           1/1    Running   0           6m
ceph-mds-745576757f-bxdcs           1/1    Running   0           6m
ceph-mds-keyring-generator-f5lxf     0/1    Completed 0           10m
ceph-mgr-86bdc7c64b-7ptr4           1/1    Running   0           6m
ceph-mgr-86bdc7c64b-xgplj           1/1    Running   0           6m
ceph-mgr-keyring-generator-w7nxq     0/1    Completed 0           10m
ceph-mon-4c8xs                       1/1    Running   0           10m
ceph-mon-check-d85994946-zzwb4      1/1    Running   0           10m
ceph-mon-keyring-generator-jdgfw     0/1    Completed 0           10m
ceph-mon-kht8d                       1/1    Running   0           10m
ceph-mon-mkpmm                       1/1    Running   0           10m
ceph-osd-default-83945928-7jz4s      1/1    Running   0           8m
ceph-osd-default-83945928-bh82j      1/1    Running   0           8m
ceph-osd-default-83945928-t9szk      1/1    Running   0           8m
ceph-osd-keyring-generator-6rg65     0/1    Completed 0           10m
ceph-rbd-pool-z8vlc                  0/1    Completed 0           6m
ceph-rbd-provisioner-84665cb84f-6s55r 1/1    Running   0           3m
ceph-rbd-provisioner-84665cb84f-chwhd 1/1    Running   0           3m
ceph-rgw-74559877-h56xs              1/1    Running   0           6m
ceph-rgw-74559877-pfjr5              1/1    Running   0           6m
ceph-rgw-keyring-generator-6rwct     0/1    Completed 0           10m
ceph-storage-keys-generator-bgj2t    0/1    Completed 0           10m
ingress-796d8cf8d6-nzrd2            1/1    Running   0           11m
```

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```

ingress-796d8cf8d6-qqvq9      1/1      Running    0          └
└─11m
ingress-error-pages-54454dc79b-d5r5w  1/1      Running    0          └
└─11m
ingress-error-pages-54454dc79b-gfpqv  1/1      Running    0          └
└─11m

```

4) Check version of each Ceph components.

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-4c8xs -- └
└─ceph -v
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous└
└─(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-osd-default-
└─83945928-7jz4s -- ceph -v
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous└
└─(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mgr-86bdc7c64b-
└─7ptr4 -- ceph -v
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous└
└─(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mds-745576757f-
└─4vdn4 -- ceph -v
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous└
└─(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-rgw-74559877-
└─h56xs -- ceph -v
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous└
└─(stable)

```

5) Check which images Provisioners and Mon-Check PODs are using

Note

Showing partial output from `kubectl describe` command to show which image is Docker container is using

```

ubuntu@mnode1:~$ kubectl describe pod -n ceph ceph-rbd-provisioner-84665cb84f-
└─6s55r

Containers:
  ceph-rbd-provisioner:
    Container ID:  docker://
└─383be3d653cecf4cbf0c3c7509774d39dce54102309f1f0bdb07cdc2441e5e47
    Image:          quay.io/external_storage/rbd-provisioner:v0.1.0

```

```
ubuntu@mnode1:~$ kubectl describe pod -n ceph ceph-mon-check-d85994946-zzwb4

Containers:
  ceph-mon:
    Container ID:  docker://
    ↪d5a3396f99704038ab8ef6bfe329013ed46472ebb8e26dddc140b621329f0f92
    Image:          docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_
    ↪focal
```

6) Install Openstack charts

Continue with OSH multinode guide to install other Openstack charts.

7) Capture Ceph pods statuses.

NAME	READY	STATUS	RESTARTS	
↪AGE				
ceph-bootstrap-s4jkx	0/1	Completed	0	2h
ceph-cephfs-client-key-generator-6bmzz	0/1	Completed	0	2h
ceph-mds-745576757f-4vdn4	1/1	Running	0	2h
ceph-mds-745576757f-bxdcs	1/1	Running	0	2h
ceph-mds-keyring-generator-f5lxf	0/1	Completed	0	2h
ceph-mgr-86bdc7c64b-7ptr4	1/1	Running	0	2h
ceph-mgr-86bdc7c64b-xgplj	1/1	Running	0	2h
ceph-mgr-keyring-generator-w7nxq	0/1	Completed	0	2h
ceph-mon-4c8xs	1/1	Running	0	2h
ceph-mon-check-d85994946-zzwb4	1/1	Running	0	2h
ceph-mon-keyring-generator-jdgfw	0/1	Completed	0	2h
ceph-mon-kht8d	1/1	Running	0	2h
ceph-mon-mkppmm	1/1	Running	0	2h
ceph-osd-default-83945928-7jz4s	1/1	Running	0	2h
ceph-osd-default-83945928-bh82j	1/1	Running	0	2h
ceph-osd-default-83945928-t9szk	1/1	Running	0	2h
ceph-osd-keyring-generator-6rg65	0/1	Completed	0	2h
ceph-rbd-pool-z8vlc	0/1	Completed	0	2h
ceph-rbd-provisioner-84665cb84f-6s55r	1/1	Running	0	2h
ceph-rbd-provisioner-84665cb84f-chwhd	1/1	Running	0	2h
ceph-rgw-74559877-h56xs	1/1	Running	0	2h
ceph-rgw-74559877-pfjr5	1/1	Running	0	2h
ceph-rgw-keyring-generator-6rwct	0/1	Completed	0	2h
ceph-storage-keys-generator-bgj2t	0/1	Completed	0	2h
ingress-796d8cf8d6-nzrd2	1/1	Running	0	2h
ingress-796d8cf8d6-qqvq9	1/1	Running	0	2h
ingress-error-pages-54454dc79b-d5r5w	1/1	Running	0	2h
ingress-error-pages-54454dc79b-gfpqv	1/1	Running	0	2h

8) Capture Openstack pods statuses.

NAME	READY	STATUS	RESTARTS	
↪AGE				
cinder-api-67495cdfc-24fhs	1/1	Running	0	

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↪51m				
cinder-api-67495cdfc-kz5fn	1/1	Running	0	└
↪51m				
cinder-backup-65b7bd9b79-8n9pb	1/1	Running	0	└
↪51m				
cinder-scheduler-9ddb7878-rbt4l	1/1	Running	0	└
↪51m				
cinder-volume-75bf4cc9bd-6298x	1/1	Running	0	└
↪51m				
glance-api-68f6df4d5d-q84hs	1/1	Running	0	└
↪1h				
glance-api-68f6df4d5d-qbfwb	1/1	Running	0	└
↪1h				
ingress-7b4bc84cdd-84dtj	1/1	Running	0	└
↪2h				
ingress-7b4bc84cdd-ws45r	1/1	Running	0	└
↪2h				
ingress-error-pages-586c7f86d6-dlpm2	1/1	Running	0	└
↪2h				
ingress-error-pages-586c7f86d6-w7cj2	1/1	Running	0	└
↪2h				
keystone-api-7d9759db58-dz6kt	1/1	Running	0	└
↪1h				
keystone-api-7d9759db58-pvsc2	1/1	Running	0	└
↪1h				
libvirt-f7ngc	1/1	Running	0	└
↪24m				
libvirt-gtjc7	1/1	Running	0	└
↪24m				
libvirt-qmwf5	1/1	Running	0	└
↪24m				
mariadb-ingress-84894687fd-m8fkr	1/1	Running	0	└
↪1h				
mariadb-ingress-error-pages-78fb865f84-c6th5	1/1	Running	0	└
↪1h				
mariadb-server-0	1/1	Running	0	└
↪1h				
memcached-memcached-5db74ddfd5-qjgvz	1/1	Running	0	└
↪1h				
neutron-dhcp-agent-default-9bpxc	1/1	Running	0	└
↪16m				
neutron-l3-agent-default-47n7k	1/1	Running	0	└
↪16m				
neutron-metadata-agent-default-hp46c	1/1	Running	0	└
↪16m				
neutron-ovs-agent-default-6sbtg	1/1	Running	0	└
↪16m				
neutron-ovs-agent-default-nl8fr	1/1	Running	0	└
↪16m				

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neutron-ovs-agent-default-tvmc4 ↔16m	1/1	Running	0	↳
neutron-server-775c765d9f-cx2gk ↔16m	1/1	Running	0	↳
neutron-server-775c765d9f-115ml ↔16m	1/1	Running	0	↳
nova-api-metadata-557c68cb46-8f8d5 ↔16m	1/1	Running	1	↳
nova-api-osapi-7658bfd554-7fbtx ↔16m	1/1	Running	0	↳
nova-api-osapi-7658bfd554-v7qcr ↔16m	1/1	Running	0	↳
nova-compute-default-g2jbd ↔16m	1/1	Running	0	↳
nova-compute-default-ljcbc ↔16m	1/1	Running	0	↳
nova-compute-default-mr24c ↔16m	1/1	Running	0	↳
nova-conductor-64457cf995-1bv65 ↔16m	1/1	Running	0	↳
nova-conductor-64457cf995-zts48 ↔16m	1/1	Running	0	↳
nova-novncproxy-54467b9c66-vp49j ↔16m	1/1	Running	0	↳
nova-scheduler-59647c6d9f-vm78p ↔16m	1/1	Running	0	↳
openvswitch-db-cv47r ↔41m	1/1	Running	0	↳
openvswitch-db-dq7rc ↔41m	1/1	Running	0	↳
openvswitch-db-znp6l ↔41m	1/1	Running	0	↳
openvswitch-vswitchd-8p2j5 ↔41m	1/1	Running	0	↳
openvswitch-vswitchd-v9rrp ↔41m	1/1	Running	0	↳
openvswitch-vswitchd-wlgkx ↔41m	1/1	Running	0	↳
rabbitmq-rabbitmq-0 ↔1h	1/1	Running	0	↳
rabbitmq-rabbitmq-1 ↔1h	1/1	Running	0	↳
rabbitmq-rabbitmq-2 ↔1h	1/1	Running	0	↳

9) Upgrade Ceph charts to update version

Use Ceph override file `ceph.yaml` that was generated previously and update images section as below

```
cp /tmp/ceph.yaml ceph-update.yaml
```

Update, image section in new overrides `ceph-update.yaml` as shown below


```
images:
  tags:
    ceph_bootstrap: 'docker.io/ceph/daemon:master-0351083-luminous-ubuntu-16.04-x86_64'
    ceph_config_helper: 'docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_focal'
    ceph_rbd_pool: 'docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_focal'
    ceph_mon_check: 'docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_focal'
    ceph_mon: 'docker.io/ceph/daemon:master-a8d20ed-luminous-ubuntu-16.04-x86_64'
    ceph_osd: 'docker.io/ceph/daemon:master-a8d20ed-luminous-ubuntu-16.04-x86_64'
    ceph_mds: 'docker.io/ceph/daemon:master-a8d20ed-luminous-ubuntu-16.04-x86_64'
    ceph_mgr: 'docker.io/ceph/daemon:master-a8d20ed-luminous-ubuntu-16.04-x86_64'
    ceph_rgw: 'docker.io/ceph/daemon:master-a8d20ed-luminous-ubuntu-16.04-x86_64'
    ceph_cephfs_provisioner: 'quay.io/external_storage/cephfs-provisioner:v0.1.2'
    ceph_rbd_provisioner: 'quay.io/external_storage/rbd-provisioner:v0.1.1'
```

10) Update Ceph Mon chart with new overrides

```
helm upgrade ceph-mon ./ceph-mon --values=ceph-update.yaml
```

series of console outputs:

```
ceph-mon-4c8xs          0/1      Terminating    0      2h
ceph-mon-check-d85994946-zzwb4 1/1      Running         0      2h
ceph-mon-keyring-generator-jdgfw 0/1      Completed       0      2h
ceph-mon-kht8d         1/1      Running         0      2h
ceph-mon-mkppmm       1/1      Running         0      2h
```

```
ceph-mon-7zxjs        1/1      Running         1      4m
ceph-mon-84xt2        1/1      Running         1      2m
ceph-mon-check-d85994946-zzwb4 1/1      Running         0      2h
ceph-mon-fsrv4        1/1      Running         1      6m
ceph-mon-keyring-generator-jdgfw 0/1      Completed       0      2h
```

Results: Mon pods got updated one by one (rolling updates). Each Mon pod got respawn and was in 1/1 running state before next Mon pod got updated. Each Mon pod got restarted. Other ceph pods were not affected with this update. No interruption to OSH pods.

11) Update Ceph OSD chart with new overrides:

```
helm upgrade ceph-osd ./ceph-osd --values=ceph-update.yaml
```

series of console outputs:

ceph-osd-default-83945928-7jz4s ↪2h	0/1	Terminating	0	↪
ceph-osd-default-83945928-bh82j ↪2h	1/1	Running	0	↪
ceph-osd-default-83945928-t9szk ↪2h	1/1	Running	0	↪
ceph-osd-keyring-generator-6rg65 ↪2h	0/1	Completed	0	↪

ceph-osd-default-83945928-l84t1	1/1	Running	0	9m
ceph-osd-default-83945928-twzmk	1/1	Running	0	6m
ceph-osd-default-83945928-wxpmh ↪11m	1/1	Running	0	↪
ceph-osd-keyring-generator-6rg65	0/1	Completed	0	2h

Results: Rolling updates (one pod at a time). Other ceph pods are running. No interruption to OSH pods.

12) Update Ceph Client chart with new overrides:

```
helm upgrade ceph-client ./ceph-client --values=ceph-update.yaml
```

ceph-mds-5fdcb5c64c-t9nmb ↪11s	0/1	Init:0/2	0	↪
ceph-mds-745576757f-4vdn4 ↪2h	1/1	Running	0	↪
ceph-mds-745576757f-bxdcs ↪2h	1/1	Running	0	↪
ceph-mgr-86bdc7c64b-7ptr4 ↪2h	1/1	Terminating	0	↪
ceph-mgr-86bdc7c64b-xgplj ↪2h	0/1	Terminating	0	↪
ceph-rgw-57c68b7cd5-vxcc5 ↪11s	0/1	Init:1/3	0	↪
ceph-rgw-74559877-h56xs ↪2h	1/1	Running	0	↪
ceph-rgw-74559877-pfjr5 ↪2h	1/1	Running	0	↪

ceph-mds-5fdcb5c64c-c52xq	1/1	Running	0	2m
ceph-mds-5fdcb5c64c-t9nmb	1/1	Running	0	2m
ceph-mgr-654f97cbfd-9kcvb	1/1	Running	0	1m
ceph-mgr-654f97cbfd-gzb7k	1/1	Running	0	1m
ceph-rgw-57c68b7cd5-vxcc5	1/1	Running	0	2m
ceph-rgw-57c68b7cd5-zmdqb	1/1	Running	0	2m

Results: Rolling updates (one pod at a time). Other ceph pods are running. No interruption to OSH pods.

13) Update Ceph Provisioners chart with new overrides:

```
helm upgrade ceph-provisioners ./ceph-provisioners --values=ceph-update.yaml
```

ceph-rbd-provisioner-84665cb84f-6s55r	0/1	Terminating	0	↪ 2h
ceph-rbd-provisioner-84665cb84f-chwhd	0/1	Terminating	0	↪ 2h

ceph-rbd-provisioner-5bfb577ffd-b7tkx	1/1	Running	0	1m
ceph-rbd-provisioner-5bfb577ffd-m6gg6	1/1	Running	0	1m

Results: All provisioner pods got terminated at once (same time). Other ceph pods are running. No interruption to OSH pods.

14) Capture final Ceph pod statuses:

ceph-bootstrap-s4jkx	0/1	Completed	0	2h
ceph-cephfs-client-key-generator-6bmzz	0/1	Completed	0	2h
ceph-mds-5fdcb5c64c-c52xq	1/1	Running	0	8m
ceph-mds-5fdcb5c64c-t9nmb	1/1	Running	0	8m
ceph-mds-keyring-generator-f5lxf	0/1	Completed	0	2h
ceph-mgr-654f97cbfd-9kcvb	1/1	Running	0	8m
ceph-mgr-654f97cbfd-gzb7k	1/1	Running	0	8m
ceph-mgr-keyring-generator-w7nxq	0/1	Completed	0	2h
ceph-mon-7zxjs	1/1	Running	1	↪ 27m
ceph-mon-84xt2	1/1	Running	1	↪ 24m
ceph-mon-check-d85994946-zzwb4	1/1	Running	0	2h
ceph-mon-fsrv4	1/1	Running	1	↪ 29m
ceph-mon-keyring-generator-jdgfw	0/1	Completed	0	2h
ceph-osd-default-83945928-l84t1	1/1	Running	0	↪ 19m
ceph-osd-default-83945928-twzmk	1/1	Running	0	↪ 16m
ceph-osd-default-83945928-wxpmh	1/1	Running	0	↪ 21m
ceph-osd-keyring-generator-6rg65	0/1	Completed	0	2h
ceph-rbd-pool-z8v1c	0/1	Completed	0	2h
ceph-rbd-provisioner-5bfb577ffd-b7tkx	1/1	Running	0	2m
ceph-rbd-provisioner-5bfb577ffd-m6gg6	1/1	Running	0	2m
ceph-rgw-57c68b7cd5-vxcc5	1/1	Running	0	8m
ceph-rgw-57c68b7cd5-zmdqb	1/1	Running	0	8m
ceph-rgw-keyring-generator-6rwct	0/1	Completed	0	2h
ceph-storage-keys-generator-bgj2t	0/1	Completed	0	2h
ingress-796d8cf8d6-nzrd2	1/1	Running	0	2h
ingress-796d8cf8d6-qqvq9	1/1	Running	0	2h
ingress-error-pages-54454dc79b-d5r5w	1/1	Running	0	2h
ingress-error-pages-54454dc79b-gfpqv	1/1	Running	0	2h

15) Capture final Openstack pod statuses:

cinder-api-67495cdfc-24fhs ↪1h	1/1	Running	0	⬇
cinder-api-67495cdfc-kz5fn ↪1h	1/1	Running	0	⬇
cinder-backup-65b7bd9b79-8n9pb ↪1h	1/1	Running	0	⬇
cinder-scheduler-9ddeb7878-rbt4l ↪1h	1/1	Running	0	⬇
cinder-volume-75bf4cc9bd-6298x ↪1h	1/1	Running	0	⬇
glance-api-68f6df4d5d-q84hs ↪2h	1/1	Running	0	⬇
glance-api-68f6df4d5d-qbfwb ↪2h	1/1	Running	0	⬇
ingress-7b4bc84cdd-84dtj ↪2h	1/1	Running	0	⬇
ingress-7b4bc84cdd-ws45r ↪2h	1/1	Running	0	⬇
ingress-error-pages-586c7f86d6-dlpm2 ↪2h	1/1	Running	0	⬇
ingress-error-pages-586c7f86d6-w7cj2 ↪2h	1/1	Running	0	⬇
keystone-api-7d9759db58-dz6kt ↪2h	1/1	Running	0	⬇
keystone-api-7d9759db58-pvsc2 ↪2h	1/1	Running	0	⬇
libvirt-f7ngc ↪1h	1/1	Running	0	⬇
libvirt-gtjc7 ↪1h	1/1	Running	0	⬇
libvirt-qmwf5 ↪1h	1/1	Running	0	⬇
mariadb-ingress-84894687fd-m8fkr ↪2h	1/1	Running	0	⬇
mariadb-ingress-error-pages-78fb865f84-c6th5 ↪2h	1/1	Running	0	⬇
mariadb-server-0 ↪2h	1/1	Running	0	⬇
memcached-memcached-5db74ddfd5-qjgvz ↪2h	1/1	Running	0	⬇
neutron-dhcp-agent-default-9bpxc ↪52m	1/1	Running	0	⬇
neutron-l3-agent-default-47n7k ↪52m	1/1	Running	0	⬇
neutron-metadata-agent-default-hp46c ↪52m	1/1	Running	0	⬇
neutron-ovs-agent-default-6sbtg ↪52m	1/1	Running	0	⬇
neutron-ovs-agent-default-nl8fr ↪52m	1/1	Running	0	⬇

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neutron-ovs-agent-default-tvmc4 ↔52m	1/1	Running	0	└
neutron-server-775c765d9f-cx2gk ↔52m	1/1	Running	0	└
neutron-server-775c765d9f-1l5ml ↔52m	1/1	Running	0	└
nova-api-metadata-557c68cb46-8f8d5 ↔52m	1/1	Running	1	└
nova-api-osapi-7658bfd554-7fbtx ↔52m	1/1	Running	0	└
nova-api-osapi-7658bfd554-v7qcr ↔52m	1/1	Running	0	└
nova-compute-default-g2jbd ↔52m	1/1	Running	0	└
nova-compute-default-ljcbc ↔52m	1/1	Running	0	└
nova-compute-default-mr24c ↔52m	1/1	Running	0	└
nova-conductor-64457cf995-1bv65 ↔52m	1/1	Running	0	└
nova-conductor-64457cf995-zts48 ↔52m	1/1	Running	0	└
nova-novncproxy-54467b9c66-vp49j ↔52m	1/1	Running	0	└
nova-scheduler-59647c6d9f-vm78p ↔52m	1/1	Running	0	└
openvswitch-db-cv47r ↔1h	1/1	Running	0	└
openvswitch-db-dq7rc ↔1h	1/1	Running	0	└
openvswitch-db-znp6l ↔1h	1/1	Running	0	└
openvswitch-vswitchd-8p2j5 ↔1h	1/1	Running	0	└
openvswitch-vswitchd-v9rrp ↔1h	1/1	Running	0	└
openvswitch-vswitchd-wlgkx ↔1h	1/1	Running	0	└
rabbitmq-rabbitmq-0 ↔2h	1/1	Running	0	└
rabbitmq-rabbitmq-1 ↔2h	1/1	Running	0	└
rabbitmq-rabbitmq-2 ↔2h	1/1	Running	0	└

16) Confirm Ceph components version.

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-fsrv4 --  
↔ceph -v  
ceph version 12.2.5 (cad919881333ac92274171586c827e01f554a70a) luminous└
```

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```
↪(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-osd-default-
↪83945928-184tl -- ceph -v
ceph version 12.2.5 (cad919881333ac92274171586c827e01f554a70a) luminous_
↪(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-rgw-57c68b7cd5-
↪vxcc5 -- ceph -v
ceph version 12.2.5 (cad919881333ac92274171586c827e01f554a70a) luminous_
↪(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mgr-654f97cbfd-
↪gzb7k -- ceph -v
ceph version 12.2.5 (cad919881333ac92274171586c827e01f554a70a) luminous_
↪(stable)

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mds-5fdcb5c64c-
↪c52xq -- ceph -v
ceph version 12.2.5 (cad919881333ac92274171586c827e01f554a70a) luminous_
↪(stable)
```

17) Check which images Provisioners and Mon-Check PODs are using

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl describe pod -n ceph ceph-rbd-
↪provisioner-5bfb577ffd-b7tkx

Containers:
  ceph-rbd-provisioner:
    Container ID:  docker://
↪55b18b3400e8753f49f1343ee918a308ed1760816a1ce9797281dbfe3c5f9671
    Image:          quay.io/external_storage/rbd-provisioner:v0.1.1
```

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl describe pod -n ceph ceph-mon-
↪check-d85994946-zzwb4

Containers:
  ceph-mon:
    Container ID:  docker://
↪d5a3396f99704038ab8ef6bfe329013ed46472ebb8e26dddc140b621329f0f92
    Image:          docker.io/openstackhelm/ceph-config-helper:latest-ubuntu_
↪focal
```

5.3.6 Conclusion:

Ceph can be upgraded without downtime for Openstack components in a multinode env.

5.4 Ceph - Node Reduction, Expansion and Ceph Recovery

This document captures steps and result from node reduction and expansion as well as ceph recovery.

5.4.1 Test Scenarios:

- 1) Node reduction: Shutdown 1 of 3 nodes to simulate node failure. Capture effect of node failure on Ceph as well as other OpenStack services that are using Ceph.
- 2) Node expansion: Apply Ceph and OpenStack related labels to another unused k8 node. Node expansion should provide more resources for k8 to schedule PODs for Ceph and OpenStack services.
- 3) Fix Ceph Cluster: After node expansion, perform maintenance on Ceph cluster to ensure quorum is reached and Ceph is HEALTH_OK.

5.4.2 Setup:

- 6 Nodes (VM based) env
- Only 3 nodes will have Ceph and OpenStack related labels. Each of these 3 nodes will have one MON and one OSD running on them.
- Followed OSH multinode guide steps to setup nodes and install K8s cluster
- Followed OSH multinode guide steps to install Ceph and OpenStack charts up to Cinder.

5.4.3 Steps:

- 1) Initial Ceph and OpenStack deployment: Install Ceph and OpenStack charts on 3 nodes (mnode1, mnode2 and mnode3). Capture Ceph cluster status as well as K8s PODs status.
- 2) Node reduction (failure): Shutdown 1 of 3 nodes (mnode3) to test node failure. This should cause Ceph cluster to go in HEALTH_WARN state as it has lost 1 MON and 1 OSD. Capture Ceph cluster status as well as K8s PODs status.
- 3) Node expansion: Add Ceph and OpenStack related labels to 4th node (mnode4) for expansion. Ceph cluster would show new MON and OSD being added to cluster. However Ceph cluster would continue to show HEALTH_WARN because 1 MON and 1 OSD are still missing.
- 4) Ceph cluster recovery: Perform Ceph maintenance to make Ceph cluster HEALTH_OK. Remove lost MON and OSD from Ceph cluster.

5.4.4 Step 1: Initial Ceph and OpenStack deployment

Note

Make sure only 3 nodes (mnode1, mnode2, mnode3) have Ceph and OpenStack related labels. K8s would only schedule PODs on these 3 nodes.

Ceph status:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-5qn68 --
↪ceph -s
cluster:
  id:      54d9af7e-da6d-4980-9075-96bb145db65c
  health: HEALTH_OK

services:
  mon: 3 daemons, quorum mnode1,mnode2,mnode3
  mgr: mnode2(active), standbys: mnode3
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-6f66956547-c25cx=up:active}, 1
↪up:standby
  osd: 3 osds: 3 up, 3 in
  rgw: 2 daemons active

data:
  pools: 19 pools, 101 pgs
  objects: 354 objects, 260 MB
  usage: 77807 MB used, 70106 MB / 144 GB avail
  pgs: 101 active+clean

io:
  client: 48769 B/s wr, 0 op/s rd, 12 op/s wr

```

Ceph MON Status:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-5qn68 --
↪ceph mon_status -f json-pretty

```

```

{
  "name": "mnode2",
  "rank": 1,
  "state": "peon",
  "election_epoch": 92,
  "quorum": [
    0,
    1,
    2
  ],
  "features": {
    "required_con": "153140804152475648",
    "required_mon": [
      "kraken",
      "luminous"
    ],
    "quorum_con": "2305244844532236283",
    "quorum_mon": [
      "kraken",
      "luminous"
    ]
  },
}

```

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```
"outside_quorum": [],
"extra_probe_peers": [],
"sync_provider": [],
"monmap": {
  "epoch": 1,
  "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
  "modified": "2018-08-14 21:02:24.330403",
  "created": "2018-08-14 21:02:24.330403",
  "features": {
    "persistent": [
      "kraken",
      "luminous"
    ],
    "optional": []
  },
},
"mons": [
  {
    "rank": 0,
    "name": "mnode1",
    "addr": "192.168.10.246:6789/0",
    "public_addr": "192.168.10.246:6789/0"
  },
  {
    "rank": 1,
    "name": "mnode2",
    "addr": "192.168.10.247:6789/0",
    "public_addr": "192.168.10.247:6789/0"
  },
  {
    "rank": 2,
    "name": "mnode3",
    "addr": "192.168.10.248:6789/0",
    "public_addr": "192.168.10.248:6789/0"
  }
],
"feature_map": {
  "mon": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  },
  "mds": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  }
}
```

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```

    }
  },
  "osd": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  },
  "client": {
    "group": {
      "features": "0x7010fb86aa42ada",
      "release": "jewel",
      "num": 1
    },
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  }
}
}
}
}

```

Ceph quorum status:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-5qn68 -- \
↪ ceph quorum_status -f json-pretty

```

```

{
  "election_epoch": 92,
  "quorum": [
    0,
    1,
    2
  ],
  "quorum_names": [
    "mnode1",
    "mnode2",
    "mnode3"
  ],
  "quorum_leader_name": "mnode1",
  "monmap": {
    "epoch": 1,
    "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
    "modified": "2018-08-14 21:02:24.330403",
    "created": "2018-08-14 21:02:24.330403",
    "features": {
      "persistent": [

```

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```

        "kraken",
        "luminous"
    ],
    "optional": []
},
"mons": [
    {
        "rank": 0,
        "name": "mnode1",
        "addr": "192.168.10.246:6789/0",
        "public_addr": "192.168.10.246:6789/0"
    },
    {
        "rank": 1,
        "name": "mnode2",
        "addr": "192.168.10.247:6789/0",
        "public_addr": "192.168.10.247:6789/0"
    },
    {
        "rank": 2,
        "name": "mnode3",
        "addr": "192.168.10.248:6789/0",
        "public_addr": "192.168.10.248:6789/0"
    }
]
}
}

```

Ceph PODs:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl get pods -n ceph --show-all=false -
→o wide
NAME                                READY   STATUS    RESTARTS   AGE
→ IP                                NODE
ceph-mds-6f66956547-5x4ng           1/1    Running   0           1h
→ 192.168.4.14                       mnode2
ceph-mds-6f66956547-c25cx           1/1    Running   0           1h
→ 192.168.3.14                       mnode3
ceph-mgr-5746dd89db-9dbmv           1/1    Running   0           1h
→ 192.168.10.248                     mnode3
ceph-mgr-5746dd89db-qq4nl           1/1    Running   0           1h
→ 192.168.10.247                     mnode2
ceph-mon-5qn68                      1/1    Running   0           1h
→ 192.168.10.248                     mnode3
ceph-mon-check-d85994946-4g5xc      1/1    Running   0           1h
→ 192.168.4.8                       mnode2
ceph-mon-mwkj9                      1/1    Running   0           1h
→ 192.168.10.247                     mnode2
ceph-mon-ql9zp                      1/1    Running   0           1h
→ 192.168.10.246                     mnode1

```

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ceph-osd-default-83945928-c7gdd	1/1	Running	0	1h	↵
↪ 192.168.10.248 mnode3					
ceph-osd-default-83945928-s6gs6	1/1	Running	0	1h	↵
↪ 192.168.10.246 mnode1					
ceph-osd-default-83945928-vsc5b	1/1	Running	0	1h	↵
↪ 192.168.10.247 mnode2					
ceph-rbd-provisioner-5bfb577ffd-j6hlx	1/1	Running	0	1h	↵
↪ 192.168.4.16 mnode2					
ceph-rbd-provisioner-5bfb577ffd-zdx2d	1/1	Running	0	1h	↵
↪ 192.168.3.16 mnode3					
ceph-rgw-6c64b444d7-7bgqs	1/1	Running	0	1h	↵
↪ 192.168.3.12 mnode3					
ceph-rgw-6c64b444d7-hv6vn	1/1	Running	0	1h	↵
↪ 192.168.4.13 mnode2					
ingress-796d8cf8d6-4txkq	1/1	Running	0	1h	↵
↪ 192.168.2.6 mnode5					
ingress-796d8cf8d6-9t7m8	1/1	Running	0	1h	↵
↪ 192.168.5.4 mnode4					
ingress-error-pages-54454dc79b-hhb4f	1/1	Running	0	1h	↵
↪ 192.168.2.5 mnode5					
ingress-error-pages-54454dc79b-twpgc	1/1	Running	0	1h	↵
↪ 192.168.4.4 mnode2					

OpenStack PODs:

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl get pods -n openstack --show-
↪all=false -o wide
```

NAME	READY	STATUS	RESTARTS	↵
↪AGE IP NODE				
cinder-api-66f4f9678-2lgwk	1/1	Running	0	↵
↪12m 192.168.3.41 mnode3				
cinder-api-66f4f9678-flvr5	1/1	Running	0	↵
↪12m 192.168.0.202 mnode1				
cinder-backup-659b68b474-582kr	1/1	Running	0	↵
↪12m 192.168.4.39 mnode2				
cinder-scheduler-6778f6f88c-mm9mt	1/1	Running	0	↵
↪12m 192.168.0.201 mnode1				
cinder-volume-79b9bd8bb9-qsxdk	1/1	Running	0	↵
↪12m 192.168.4.40 mnode2				
glance-api-676fd49d4d-j4bdb	1/1	Running	0	↵
↪16m 192.168.3.37 mnode3				
glance-api-676fd49d4d-wtxqt	1/1	Running	0	↵
↪16m 192.168.4.31 mnode2				
ingress-7b4bc84cdd-9fs78	1/1	Running	0	↵
↪1h 192.168.5.3 mnode4				
ingress-7b4bc84cdd-wztz7	1/1	Running	0	↵
↪1h 192.168.1.4 mnode6				
ingress-error-pages-586c7f86d6-2jl5q	1/1	Running	0	↵
↪1h 192.168.2.4 mnode5				
ingress-error-pages-586c7f86d6-455j5	1/1	Running	0	↵

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↪1h	192.168.3.3	mnode3				
keystone-api-5bcc7cb698-dzm8q			1/1	Running	0	└
↪25m	192.168.4.24	mnode2				
keystone-api-5bcc7cb698-vvwvr			1/1	Running	0	└
↪25m	192.168.3.25	mnode3				
mariadb-ingress-84894687fd-dfnkm			1/1	Running	2	└
↪1h	192.168.3.20	mnode3				
mariadb-ingress-error-pages-78fb865f84-p8lpg			1/1	Running	0	└
↪1h	192.168.4.17	mnode2				
mariadb-server-0			1/1	Running	0	└
↪1h	192.168.4.18	mnode2				
memcached-memcached-5db74ddfd5-wfr9q			1/1	Running	0	└
↪29m	192.168.3.23	mnode3				
rabbitmq-rabbitmq-0			1/1	Running	0	└
↪1h	192.168.3.21	mnode3				
rabbitmq-rabbitmq-1			1/1	Running	0	└
↪1h	192.168.4.19	mnode2				
rabbitmq-rabbitmq-2			1/1	Running	0	└
↪1h	192.168.0.195	mnode1				

Result/Observation:

- Ceph cluster is in HEALTH_OK state with 3 MONs and 3 OSDs.
- All PODs are in running state.

5.4.5 Step 2: Node reduction (failure):

Shutdown 1 of 3 nodes (mnode1, mnode2, mnode3) to simulate node failure/lost.

In this test env, lets shutdown mnode3 node.

Following are PODs scheduled on mnode3 before shutdown:

ceph		ceph-mds-6f66956547-c25cx	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
ceph		ceph-mgr-5746dd89db-9dbmv	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
ceph		ceph-mon-5qn68	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
ceph		ceph-osd-default-83945928-c7gdd	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
ceph		ceph-rbd-provisioner-5bfb577ffd-zdx2d	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
ceph		ceph-rgw-6c64b444d7-7bgqs	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
kube-system		ingress-ggckm	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
kube-system		kube-flannel-ds-hs29q	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	
kube-system		kube-proxy-gqpz5	0 (0%)	└
↪	0 (0%)	0 (0%)	0 (0%)	

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openstack		cinder-api-66f4f9678-2lgwk	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	
openstack		glance-api-676fd49d4d-j4bdb	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	
openstack		ingress-error-pages-586c7f86d6-455j5	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	
openstack		keystone-api-5bcc7cb698-vvwrr	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	
openstack		mariadb-ingress-84894687fd-dfnkm	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	
openstack		memcached-memcached-5db74ddfd5-wfr9q	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	
openstack		rabbitmq-rabbitmq-0	0 (0%)	↳
↪	0 (0%)	0 (0%)	0 (0%)	

Note

In this test env, MariaDB chart is deployed with only 1 replica. In order to test properly, the node with MariaDB server POD (mnode2) should not be shutdown.

Note

In this test env, each node has Ceph and OpenStack related PODs. Due to this, shutting down a Node will cause issue with Ceph as well as OpenStack services. These PODs level failures are captured following subsequent screenshots.

Check node status:

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl get nodes
NAME        STATUS    ROLES    AGE     VERSION
mnode1     Ready    <none>   1h     v1.10.6
mnode2     Ready    <none>   1h     v1.10.6
mnode3     NotReady <none>   1h     v1.10.6
mnode4     Ready    <none>   1h     v1.10.6
mnode5     Ready    <none>   1h     v1.10.6
mnode6     Ready    <none>   1h     v1.10.6
```

Ceph status:

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-ql9zp --
↪ ceph -s
cluster:
  id:          54d9af7e-da6d-4980-9075-96bb145db65c
  health:     HEALTH_WARN
              insufficient standby MDS daemons available
              1 osds down
              1 host (1 osds) down
```

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```

    Degraded data redundancy: 354/1062 objects degraded (33.333%), 46
↪pgs degraded, 101 pgs undersized
    1/3 mons down, quorum mnode1,mnode2

services:
  mon: 3 daemons, quorum mnode1,mnode2, out of quorum: mnode3
  mgr: mnode2(active)
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-6f66956547-5x4ng=up:active}
  osd: 3 osds: 2 up, 3 in
  rgw: 1 daemon active

data:
  pools: 19 pools, 101 pgs
  objects: 354 objects, 260 MB
  usage: 77845 MB used, 70068 MB / 144 GB avail
  pgs: 354/1062 objects degraded (33.333%)
      55 active+undersized
      46 active+undersized+degraded

```

Ceph quorum status:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-ql9zp --
↪ceph quorum_status -f json-pretty

```

```

{
  "election_epoch": 96,
  "quorum": [
    0,
    1
  ],
  "quorum_names": [
    "mnode1",
    "mnode2"
  ],
  "quorum_leader_name": "mnode1",
  "monmap": {
    "epoch": 1,
    "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
    "modified": "2018-08-14 21:02:24.330403",
    "created": "2018-08-14 21:02:24.330403",
    "features": {
      "persistent": [
        "kraken",
        "luminous"
      ],
      "optional": []
    },
    "mons": [
      {

```

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```

        "rank": 0,
        "name": "mnode1",
        "addr": "192.168.10.246:6789/0",
        "public_addr": "192.168.10.246:6789/0"
    },
    {
        "rank": 1,
        "name": "mnode2",
        "addr": "192.168.10.247:6789/0",
        "public_addr": "192.168.10.247:6789/0"
    },
    {
        "rank": 2,
        "name": "mnode3",
        "addr": "192.168.10.248:6789/0",
        "public_addr": "192.168.10.248:6789/0"
    }
]
}

```

Ceph MON Status:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl exec -n ceph ceph-mon-ql9zp --
↪ceph mon_status -f json-pretty

```

```

{
  "name": "mnode1",
  "rank": 0,
  "state": "leader",
  "election_epoch": 96,
  "quorum": [
    0,
    1
  ],
  "features": {
    "required_con": "153140804152475648",
    "required_mon": [
      "kraken",
      "luminous"
    ],
    "quorum_con": "2305244844532236283",
    "quorum_mon": [
      "kraken",
      "luminous"
    ]
  },
  "outside_quorum": [],
  "extra_probe_peers": [],

```

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```

"sync_provider": [],
"monmap": {
  "epoch": 1,
  "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
  "modified": "2018-08-14 21:02:24.330403",
  "created": "2018-08-14 21:02:24.330403",
  "features": {
    "persistent": [
      "kraken",
      "luminous"
    ],
    "optional": []
  },
},
"mons": [
  {
    "rank": 0,
    "name": "mnode1",
    "addr": "192.168.10.246:6789/0",
    "public_addr": "192.168.10.246:6789/0"
  },
  {
    "rank": 1,
    "name": "mnode2",
    "addr": "192.168.10.247:6789/0",
    "public_addr": "192.168.10.247:6789/0"
  },
  {
    "rank": 2,
    "name": "mnode3",
    "addr": "192.168.10.248:6789/0",
    "public_addr": "192.168.10.248:6789/0"
  }
],
},
"feature_map": {
  "mon": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  },
  "mds": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  }
},

```

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```

    "osd": {
      "group": {
        "features": "0x1ffddff8eea4fffb",
        "release": "luminous",
        "num": 1
      }
    },
    "client": {
      "group": {
        "features": "0x7010fb86aa42ada",
        "release": "jewel",
        "num": 1
      },
      "group": {
        "features": "0x1ffddff8eea4fffb",
        "release": "luminous",
        "num": 5
      }
    }
  }
}

```

Ceph PODs:

```

ubuntu@mnode1:/opt/openstack-helm$ kubectl get pods -n ceph --show-all=false -
→o wide
NAME                                READY   STATUS    RESTARTS   U
→AGE      IP             NODE
ceph-mds-6f66956547-57tf9           1/1     Running   0           1m
→         192.168.0.207  mnode1
ceph-mds-6f66956547-5x4ng           1/1     Running   0           1h
→         192.168.4.14   mnode2
ceph-mds-6f66956547-c25cx           1/1     Unknown   0           1h
→         192.168.3.14   mnode3
ceph-mgr-5746dd89db-9dbmv           1/1     Unknown   0           1h
→         192.168.10.248 mnode3
ceph-mgr-5746dd89db-d5fcw           1/1     Running   0           1m
→         192.168.10.246 mnode1
ceph-mgr-5746dd89db-qq4nl           1/1     Running   0           1h
→         192.168.10.247 mnode2
ceph-mon-5qn68                       1/1     NodeLost  0           1h
→         192.168.10.248 mnode3
ceph-mon-check-d85994946-4g5xc      1/1     Running   0           1h
→         192.168.4.8   mnode2
ceph-mon-mwkj9                       1/1     Running   0           1h
→         192.168.10.247 mnode2
ceph-mon-ql9zp                       1/1     Running   0           1h
→         192.168.10.246 mnode1
ceph-osd-default-83945928-c7gdd     1/1     NodeLost  0           1h
→         192.168.10.248 mnode3

```

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ceph-osd-default-83945928-s6gs6	1/1	Running	0	1h
↪ 192.168.10.246 mnode1				
ceph-osd-default-83945928-vsc5b	1/1	Running	0	1h
↪ 192.168.10.247 mnode2				
ceph-rbd-provisioner-5bfb577ffd-j6hlx	1/1	Running	0	1h
↪ 192.168.4.16 mnode2				
ceph-rbd-provisioner-5bfb577ffd-kdmrv	1/1	Running	0	1m
↪ 192.168.0.209 mnode1				
ceph-rbd-provisioner-5bfb577ffd-zdx2d	1/1	Unknown	0	1h
↪ 192.168.3.16 mnode3				
ceph-rgw-6c64b444d7-4qgkw	1/1	Running	0	1m
↪ 192.168.0.210 mnode1				
ceph-rgw-6c64b444d7-7bgqs	1/1	Unknown	0	1h
↪ 192.168.3.12 mnode3				
ceph-rgw-6c64b444d7-hv6vn	1/1	Running	0	1h
↪ 192.168.4.13 mnode2				
ingress-796d8cf8d6-4txkq	1/1	Running	0	1h
↪ 192.168.2.6 mnode5				
ingress-796d8cf8d6-9t7m8	1/1	Running	0	1h
↪ 192.168.5.4 mnode4				
ingress-error-pages-54454dc79b-hhb4f	1/1	Running	0	1h
↪ 192.168.2.5 mnode5				
ingress-error-pages-54454dc79b-twpgc	1/1	Running	0	1h
↪ 192.168.4.4 mnode2				

OpenStack PODs:

```
ubuntu@mnode1:/opt/openstack-helm$ kubectl get pods -n openstack --show-
↪ all=false -o wide
```

NAME	READY	STATUS	RESTARTS	
↪ AGE IP NODE				
cinder-api-66f4f9678-2lgwk	1/1	Unknown	0	
↪ 22m 192.168.3.41 mnode3				
cinder-api-66f4f9678-flvr5	1/1	Running	0	
↪ 22m 192.168.0.202 mnode1				
cinder-api-66f4f9678-w5xhd	1/1	Running	0	
↪ 1m 192.168.4.45 mnode2				
cinder-backup-659b68b474-582kr	1/1	Running	0	
↪ 22m 192.168.4.39 mnode2				
cinder-scheduler-6778f6f88c-mm9mt	1/1	Running	0	
↪ 22m 192.168.0.201 mnode1				
cinder-volume-79b9bd8bb9-qsxdk	1/1	Running	0	
↪ 22m 192.168.4.40 mnode2				
cinder-volume-usage-audit-1534286100-mm8r7	1/1	Running	0	
↪ 4m 192.168.4.44 mnode2				
glance-api-676fd49d4d-4tnm6	1/1	Running	0	
↪ 1m 192.168.0.212 mnode1				
glance-api-676fd49d4d-j4bdb	1/1	Unknown	0	
↪ 26m 192.168.3.37 mnode3				
glance-api-676fd49d4d-wtxqt	1/1	Running	0	

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↪26m	192.168.4.31	mnode2				
ingress-7b4bc84cdd-9fs78			1/1	Running	0	⬇
↪1h	192.168.5.3	mnode4				
ingress-7b4bc84cdd-wztz7			1/1	Running	0	⬇
↪1h	192.168.1.4	mnode6				
ingress-error-pages-586c7f86d6-2jl5q			1/1	Running	0	⬇
↪1h	192.168.2.4	mnode5				
ingress-error-pages-586c7f86d6-455j5			1/1	Unknown	0	⬇
↪1h	192.168.3.3	mnode3				
ingress-error-pages-586c7f86d6-55j4x			1/1	Running	0	⬇
↪1m	192.168.4.47	mnode2				
keystone-api-5bcc7cb698-dzm8q			1/1	Running	0	⬇
↪35m	192.168.4.24	mnode2				
keystone-api-5bcc7cb698-vvwwr			1/1	Unknown	0	⬇
↪35m	192.168.3.25	mnode3				
keystone-api-5bcc7cb698-wx5l6			1/1	Running	0	⬇
↪1m	192.168.0.213	mnode1				
mariadb-ingress-84894687fd-9lmpx			1/1	Running	0	⬇
↪1m	192.168.4.48	mnode2				
mariadb-ingress-84894687fd-dfnkm			1/1	Unknown	2	⬇
↪1h	192.168.3.20	mnode3				
mariadb-ingress-error-pages-78fb865f84-p8lpg			1/1	Running	0	⬇
↪1h	192.168.4.17	mnode2				
mariadb-server-0			1/1	Running	0	⬇
↪1h	192.168.4.18	mnode2				
memcached-memcached-5db74ddfd5-926ln			1/1	Running	0	⬇
↪1m	192.168.4.49	mnode2				
memcached-memcached-5db74ddfd5-wfr9q			1/1	Unknown	0	⬇
↪38m	192.168.3.23	mnode3				
rabbitmq-rabbitmq-0			1/1	Unknown	0	⬇
↪1h	192.168.3.21	mnode3				
rabbitmq-rabbitmq-1			1/1	Running	0	⬇
↪1h	192.168.4.19	mnode2				
rabbitmq-rabbitmq-2			1/1	Running	0	⬇
↪1h	192.168.0.195	mnode1				

Result/Observation:

- PODs that were scheduled on mnode3 node has status of NodeLost/Unknown.
- Ceph status shows HEALTH_WARN as expected
- Ceph status shows 1 Ceph MON and 1 Ceph OSD missing.
- OpenStack PODs that were scheduled mnode3 also shows NodeLost/Unknown.

5.4.6 Step 3: Node Expansion

Lets add more resources for K8s to schedule PODs on.

In this test env, lets use mnode4 and apply Ceph and OpenStack related labels.

Note

Since the node that was shutdown earlier had both Ceph and OpenStack PODs, mnode4 should get Ceph and OpenStack related labels as well.

After applying labels, lets check status

Ceph status:

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph -s
cluster:
  id:          54d9af7e-da6d-4980-9075-96bb145db65c
  health: HEALTH_WARN
              1/4 mons down, quorum mnode1,mnode2,mnode4

services:
  mon: 4 daemons, quorum mnode1,mnode2,mnode4, out of quorum: mnode3
  mgr: mnode2(active), standbys: mnode1
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-6f66956547-5x4ng=up:active}, 1
↳up:standby
  osd: 4 osds: 3 up, 3 in
  rgw: 2 daemons active

data:
  pools:   19 pools, 101 pgs
  objects: 354 objects, 260 MB
  usage:   74684 MB used, 73229 MB / 144 GB avail
  pgs:    101 active+clean
```

Ceph MON Status

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph mon_status -f
↳json-pretty
```

```
{
  "name": "mnode2",
  "rank": 1,
  "state": "peon",
  "election_epoch": 100,
  "quorum": [
    0,
    1,
    3
  ],
  "features": {
    "required_con": "153140804152475648",
    "required_mon": [
      "kraken",
      "luminous"
    ]
  }
}
```

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```
"quorum_con": "2305244844532236283",
"quorum_mon": [
  "kraken",
  "luminous"
],
},
"outside_quorum": [],
"extra_probe_peers": [
  "192.168.10.249:6789/0"
],
"sync_provider": [],
"monmap": {
  "epoch": 2,
  "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
  "modified": "2018-08-14 22:43:31.517568",
  "created": "2018-08-14 21:02:24.330403",
  "features": {
    "persistent": [
      "kraken",
      "luminous"
    ],
    "optional": []
  },
},
"mons": [
  {
    "rank": 0,
    "name": "mnode1",
    "addr": "192.168.10.246:6789/0",
    "public_addr": "192.168.10.246:6789/0"
  },
  {
    "rank": 1,
    "name": "mnode2",
    "addr": "192.168.10.247:6789/0",
    "public_addr": "192.168.10.247:6789/0"
  },
  {
    "rank": 2,
    "name": "mnode3",
    "addr": "192.168.10.248:6789/0",
    "public_addr": "192.168.10.248:6789/0"
  },
  {
    "rank": 3,
    "name": "mnode4",
    "addr": "192.168.10.249:6789/0",
    "public_addr": "192.168.10.249:6789/0"
  }
]
```

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```

},
"feature_map": {
  "mon": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  },
  "mds": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  },
  "osd": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 2
    }
  },
  "client": {
    "group": {
      "features": "0x7010fb86aa42ada",
      "release": "jewel",
      "num": 1
    },
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  }
}
}
}

```

Ceph quorum status:

```

ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph quorum_status -f_
↪ json-pretty

```

```

{
  "election_epoch": 100,
  "quorum": [
    0,
    1,
    3
  ]
}

```

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```
],
  "quorum_names": [
    "mnode1",
    "mnode2",
    "mnode4"
  ],
  "quorum_leader_name": "mnode1",
  "monmap": {
    "epoch": 2,
    "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
    "modified": "2018-08-14 22:43:31.517568",
    "created": "2018-08-14 21:02:24.330403",
    "features": {
      "persistent": [
        "kraken",
        "luminous"
      ],
      "optional": []
    }
  },
  "mons": [
    {
      "rank": 0,
      "name": "mnode1",
      "addr": "192.168.10.246:6789/0",
      "public_addr": "192.168.10.246:6789/0"
    },
    {
      "rank": 1,
      "name": "mnode2",
      "addr": "192.168.10.247:6789/0",
      "public_addr": "192.168.10.247:6789/0"
    },
    {
      "rank": 2,
      "name": "mnode3",
      "addr": "192.168.10.248:6789/0",
      "public_addr": "192.168.10.248:6789/0"
    },
    {
      "rank": 3,
      "name": "mnode4",
      "addr": "192.168.10.249:6789/0",
      "public_addr": "192.168.10.249:6789/0"
    }
  ]
}
```

Ceph PODs:


```

ubuntu@mnode1:~$ kubectl get pods -n ceph --show-all=false -o wide
Flag --show-all has been deprecated, will be removed in an upcoming release
NAME                                READY   STATUS    RESTARTS   AGE   IP            NODE
ceph-mds-6f66956547-57tf9           1/1    Running   0          10m   192.168.0.207 mnode1
ceph-mds-6f66956547-5x4ng           1/1    Running   0          1h   192.168.4.14   mnode2
ceph-mds-6f66956547-c25cx           1/1    Unknown   0          1h   192.168.3.14   mnode3
ceph-mgr-5746dd89db-9dbmv           1/1    Unknown   0          1h   192.168.10.248 mnode3
ceph-mgr-5746dd89db-d5fcw           1/1    Running   0          10m   192.168.10.246 mnode1
ceph-mgr-5746dd89db-qq4nl           1/1    Running   0          1h   192.168.10.247 mnode2
ceph-mon-5krkd                       1/1    Running   0          4m   192.168.10.249 mnode4
ceph-mon-5qn68                       1/1    NodeLost  0          1h   192.168.10.248 mnode3
ceph-mon-check-d85994946-4g5xc      1/1    Running   0          1h   192.168.4.8    mnode2
ceph-mon-mwkj9                       1/1    Running   0          1h   192.168.10.247 mnode2
ceph-mon-ql9zp                       1/1    Running   0          1h   192.168.10.246 mnode1
ceph-osd-default-83945928-c7gdd      1/1    NodeLost  0          1h   192.168.10.248 mnode3
ceph-osd-default-83945928-kf5tj      1/1    Running   0          4m   192.168.10.249 mnode4
ceph-osd-default-83945928-s6gs6      1/1    Running   0          1h   192.168.10.246 mnode1
ceph-osd-default-83945928-vsc5b      1/1    Running   0          1h   192.168.10.247 mnode2
ceph-rbd-provisioner-5bfb577ffd-j6hlx 1/1    Running   0          1h   192.168.4.16   mnode2
ceph-rbd-provisioner-5bfb577ffd-kdmrv 1/1    Running   0          10m   192.168.0.209 mnode1
ceph-rbd-provisioner-5bfb577ffd-zdx2d 1/1    Unknown   0          1h   192.168.3.16   mnode3
ceph-rgw-6c64b444d7-4qgkw           1/1    Running   0          10m   192.168.0.210 mnode1
ceph-rgw-6c64b444d7-7bgqs           1/1    Unknown   0          1h   192.168.3.12   mnode3
ceph-rgw-6c64b444d7-hv6vn           1/1    Running   0          1h   192.168.4.13   mnode2
ingress-796d8cf8d6-4txkq            1/1    Running   0          1h   192.168.2.6    mnode5
ingress-796d8cf8d6-9t7m8           1/1    Running   0          1h   192.168.5.4    mnode4

```

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ingress-error-pages-54454dc79b-hhb4f	1/1	Running	0	1h
↪ 192.168.2.5				mnode5
ingress-error-pages-54454dc79b-twpgc	1/1	Running	0	1h
↪ 192.168.4.4				mnode2

OpenStack PODs:

```
ubuntu@mnode1:~$ kubectl get pods -n openstack --show-all=false -o wide
Flag --show-all has been deprecated, will be removed in an upcoming release
NAME                                READY   STATUS    RESTARTS   AGE   IP              NODE
↪ AGE      IP              NODE
cinder-api-66f4f9678-2l9wk          1/1    Unknown   0           32m   192.168.3.41   mnode3
↪ 32m     192.168.3.41   mnode3
cinder-api-66f4f9678-flvr5          1/1    Running   0           32m   192.168.0.202  mnode1
↪ 32m     192.168.0.202  mnode1
cinder-api-66f4f9678-w5xhd          1/1    Running   0           11m   192.168.4.45   mnode2
↪ 11m     192.168.4.45   mnode2
cinder-backup-659b68b474-582kr      1/1    Running   0           32m   192.168.4.39   mnode2
↪ 32m     192.168.4.39   mnode2
cinder-scheduler-6778f6f88c-mm9mt   1/1    Running   0           32m   192.168.0.201  mnode1
↪ 32m     192.168.0.201  mnode1
cinder-volume-79b9bd8bb9-qsxdk      1/1    Running   0           32m   192.168.4.40   mnode2
↪ 32m     192.168.4.40   mnode2
glance-api-676fd49d4d-4tnm6         1/1    Running   0           11m   192.168.0.212  mnode1
↪ 11m     192.168.0.212  mnode1
glance-api-676fd49d4d-j4bdb         1/1    Unknown   0           36m   192.168.3.37   mnode3
↪ 36m     192.168.3.37   mnode3
glance-api-676fd49d4d-wtxqt         1/1    Running   0           36m   192.168.4.31   mnode2
↪ 36m     192.168.4.31   mnode2
ingress-7b4bc84cdd-9fs78            1/1    Running   0           1h    192.168.5.3    mnode4
↪ 1h     192.168.5.3    mnode4
ingress-7b4bc84cdd-wztz7            1/1    Running   0           1h    192.168.1.4    mnode6
↪ 1h     192.168.1.4    mnode6
ingress-error-pages-586c7f86d6-2jl5q 1/1    Running   0           1h    192.168.2.4    mnode5
↪ 1h     192.168.2.4    mnode5
ingress-error-pages-586c7f86d6-455j5 1/1    Unknown   0           1h    192.168.3.3    mnode3
↪ 1h     192.168.3.3    mnode3
ingress-error-pages-586c7f86d6-55j4x 1/1    Running   0           11m   192.168.4.47   mnode2
↪ 11m     192.168.4.47   mnode2
keystone-api-5bcc7cb698-dzm8q        1/1    Running   0           45m   192.168.4.24   mnode2
↪ 45m     192.168.4.24   mnode2
keystone-api-5bcc7cb698-vvwvr        1/1    Unknown   0           45m   192.168.3.25   mnode3
↪ 45m     192.168.3.25   mnode3
keystone-api-5bcc7cb698-wx5l6        1/1    Running   0           11m   192.168.0.213  mnode1
↪ 11m     192.168.0.213  mnode1
mariadb-ingress-84894687fd-9lmpx     1/1    Running   0           11m   192.168.4.48   mnode2
↪ 11m     192.168.4.48   mnode2
mariadb-ingress-84894687fd-dfnkm     1/1    Unknown   2           1h    192.168.3.20   mnode3
↪ 1h     192.168.3.20   mnode3
mariadb-ingress-error-pages-78fb865f84-p8lpg 1/1    Running   0           1h    192.168.3.20   mnode3
↪ 1h     192.168.3.20   mnode3
```

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↪1h	192.168.4.17	mnode2					
mariadb-server-0			1/1	Running	0		⬇
↪1h	192.168.4.18	mnode2					
memcached-memcached-5db74ddfd5-9261n			1/1	Running	0		⬇
↪11m	192.168.4.49	mnode2					
memcached-memcached-5db74ddfd5-wfr9q			1/1	Unknown	0		⬇
↪48m	192.168.3.23	mnode3					
rabbitmq-rabbitmq-0			1/1	Unknown	0		⬇
↪1h	192.168.3.21	mnode3					
rabbitmq-rabbitmq-1			1/1	Running	0		⬇
↪1h	192.168.4.19	mnode2					
rabbitmq-rabbitmq-2			1/1	Running	0		⬇
↪1h	192.168.0.195	mnode1					

Result/Observation:

- Ceph MON and OSD PODs got scheduled on mnode4 node.
- Ceph status shows that MON and OSD count has been increased.
- Ceph status still shows HEALTH_WARN as one MON and OSD are still down.

5.4.7 Step 4: Ceph cluster recovery

Now that we have added new node for Ceph and OpenStack PODs, lets perform maintenance on Ceph cluster.

1) Remove out of quorum MON:

Using `ceph mon_status` and `ceph -s` commands, confirm ID of MON that is out of quorum.

In this test env, mnode3 is out of quorum.

Note

In this test env, since out of quorum MON is no longer available due to node failure, we can processed with removing it from Ceph cluster.

Remove MON from Ceph cluster

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph mon remove mnode3
removing mon.mnode3 at 192.168.10.248:6789/0, there will be 3 monitors
```

Ceph Status:

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph -s
cluster:
  id:      54d9af7e-da6d-4980-9075-96bb145db65c
  health: HEALTH_OK

services:
  mon: 3 daemons, quorum mnode1,mnode2,mnode4
```

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```

mgr: mnode2(active), standbys: mnode1
mds: cephfs-1/1/1 up {0=mds-ceph-mds-6f66956547-5x4ng=up:active}, 1
↳up:standby
osd: 4 osds: 3 up, 3 in
rgw: 2 daemons active

data:
pools: 19 pools, 101 pgs
objects: 354 objects, 260 MB
usage: 74705 MB used, 73208 MB / 144 GB avail
pgs: 101 active+clean

io:
client: 132 kB/s wr, 0 op/s rd, 23 op/s wr

```

As shown above, Ceph status is now HEALTH_OK and shows 3 MONs available.

Ceph MON Status

```

ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph mon_status -f
↳json-pretty

```

```

{
  "name": "mnode4",
  "rank": 2,
  "state": "peon",
  "election_epoch": 106,
  "quorum": [
    0,
    1,
    2
  ],
  "features": {
    "required_con": "153140804152475648",
    "required_mon": [
      "kraken",
      "luminous"
    ],
    "quorum_con": "2305244844532236283",
    "quorum_mon": [
      "kraken",
      "luminous"
    ]
  },
  "outside_quorum": [],
  "extra_probe_peers": [],
  "sync_provider": [],
  "monmap": {
    "epoch": 3,
    "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",

```

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```

"modified": "2018-08-14 22:55:41.256612",
"created": "2018-08-14 21:02:24.330403",
"features": {
  "persistent": [
    "kraken",
    "luminous"
  ],
  "optional": []
},
"mons": [
  {
    "rank": 0,
    "name": "mnode1",
    "addr": "192.168.10.246:6789/0",
    "public_addr": "192.168.10.246:6789/0"
  },
  {
    "rank": 1,
    "name": "mnode2",
    "addr": "192.168.10.247:6789/0",
    "public_addr": "192.168.10.247:6789/0"
  },
  {
    "rank": 2,
    "name": "mnode4",
    "addr": "192.168.10.249:6789/0",
    "public_addr": "192.168.10.249:6789/0"
  }
]
},
"feature_map": {
  "mon": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  },
  "client": {
    "group": {
      "features": "0x1ffddff8eea4fffb",
      "release": "luminous",
      "num": 1
    }
  }
}
}

```

Ceph quorum status

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph quorum_status -f.
↪ json-pretty
```

```
{
  "election_epoch": 106,
  "quorum": [
    0,
    1,
    2
  ],
  "quorum_names": [
    "mnode1",
    "mnode2",
    "mnode4"
  ],
  "quorum_leader_name": "mnode1",
  "monmap": {
    "epoch": 3,
    "fsid": "54d9af7e-da6d-4980-9075-96bb145db65c",
    "modified": "2018-08-14 22:55:41.256612",
    "created": "2018-08-14 21:02:24.330403",
    "features": {
      "persistent": [
        "kraken",
        "luminous"
      ],
      "optional": []
    }
  },
  "mons": [
    {
      "rank": 0,
      "name": "mnode1",
      "addr": "192.168.10.246:6789/0",
      "public_addr": "192.168.10.246:6789/0"
    },
    {
      "rank": 1,
      "name": "mnode2",
      "addr": "192.168.10.247:6789/0",
      "public_addr": "192.168.10.247:6789/0"
    },
    {
      "rank": 2,
      "name": "mnode4",
      "addr": "192.168.10.249:6789/0",
      "public_addr": "192.168.10.249:6789/0"
    }
  ]
}
```

2) Remove down OSD from Ceph cluster:

As shown in Ceph status above, `osd: 4 osds: 3 up, 3 in` 1 of 4 OSDs is still down. Lets remove that OSD.

First, run `ceph osd tree` command to get list of OSDs.

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph osd tree
ID CLASS WEIGHT  TYPE NAME                STATUS REWEIGHT PRI-AFF
-1          0.19995 root default
-7          0.04999  host mnode1
 2 hdd 0.04999  osd.2                up    1.00000 1.00000
-2          0.04999  host mnode2
 0 hdd 0.04999  osd.0                up    1.00000 1.00000
-3          0.04999  host mnode3
 1 hdd 0.04999  osd.1                down      0 1.00000
-9          0.04999  host mnode4
 3 hdd 0.04999  osd.3                up    1.00000 1.00000
```

Above output shows that `osd.1` is down.

Run `ceph osd purge` command to remove OSD from ceph cluster.

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph osd purge osd.1 -
↪-yes-i-really-mean-it
purged osd.1
```

Ceph status

```
ubuntu@mnode1:~$ kubectl exec -n ceph ceph-mon-ql9zp -- ceph -s
cluster:
  id:      54d9af7e-da6d-4980-9075-96bb145db65c
  health: HEALTH_OK

services:
  mon: 3 daemons, quorum mnode1,mnode2,mnode4
  mgr: mnode2(active), standbys: mnode1
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-6f66956547-5x4ng=up:active}, 1
↪up:standby
  osd: 3 osds: 3 up, 3 in
  rgw: 2 daemons active

data:
  pools:   19 pools, 101 pgs
  objects: 354 objects, 260 MB
  usage:   74681 MB used, 73232 MB / 144 GB avail
  pgs:    101 active+clean

io:
  client: 57936 B/s wr, 0 op/s rd, 14 op/s wr
```

Above output shows Ceph cluster in `HEALTH_OK` with all OSDs and MONs up and running.

Ceph PODs

```

ubuntu@mnode1:~$ kubectl get pods -n ceph --show-all=false -o wide
Flag --show-all has been deprecated, will be removed in an upcoming release
NAME                                READY   STATUS    RESTARTS    
↪AGE      IP                NODE
ceph-mds-6f66956547-57tf9           1/1     Running   0            
↪25m      192.168.0.207    mnode1
ceph-mds-6f66956547-5x4ng           1/1     Running   0           1h 
↪        192.168.4.14    mnode2
ceph-mds-6f66956547-c25cx           1/1     Unknown   0           1h 
↪        192.168.3.14    mnode3
ceph-mgr-5746dd89db-9dbmv           1/1     Unknown   0           1h 
↪        192.168.10.248 mnode3
ceph-mgr-5746dd89db-d5fcw           1/1     Running   0            
↪25m      192.168.10.246  mnode1
ceph-mgr-5746dd89db-qq4nl           1/1     Running   0           1h 
↪        192.168.10.247 mnode2
ceph-mon-5krkd                       1/1     Running   0            
↪19m      192.168.10.249  mnode4
ceph-mon-5qn68                       1/1     NodeLost  0           2h 
↪        192.168.10.248 mnode3
ceph-mon-check-d85994946-4g5xc       1/1     Running   0           2h 
↪        192.168.4.8    mnode2
ceph-mon-mwkj9                       1/1     Running   0           2h 
↪        192.168.10.247 mnode2
ceph-mon-ql9zp                       1/1     Running   0           2h 
↪        192.168.10.246 mnode1
ceph-osd-default-83945928-c7gdd       1/1     NodeLost  0           1h 
↪        192.168.10.248 mnode3
ceph-osd-default-83945928-kf5tj       1/1     Running   0            
↪19m      192.168.10.249  mnode4
ceph-osd-default-83945928-s6gs6       1/1     Running   0           1h 
↪        192.168.10.246 mnode1
ceph-osd-default-83945928-vsc5b       1/1     Running   0           1h 
↪        192.168.10.247 mnode2
ceph-rbd-provisioner-5bfb577ffd-j6hlx 1/1     Running   0           1h 
↪        192.168.4.16    mnode2
ceph-rbd-provisioner-5bfb577ffd-kdmrv 1/1     Running   0            
↪25m      192.168.0.209    mnode1
ceph-rbd-provisioner-5bfb577ffd-zdx2d 1/1     Unknown   0           1h 
↪        192.168.3.16    mnode3
ceph-rgw-6c64b444d7-4qgkw            1/1     Running   0            
↪25m      192.168.0.210    mnode1
ceph-rgw-6c64b444d7-7bgqs            1/1     Unknown   0           1h 
↪        192.168.3.12    mnode3
ceph-rgw-6c64b444d7-hv6vn            1/1     Running   0           1h 
↪        192.168.4.13    mnode2
ingress-796d8cf8d6-4txkq             1/1     Running   0           2h 
↪        192.168.2.6     mnode5
ingress-796d8cf8d6-9t7m8             1/1     Running   0           2h 
↪        192.168.5.4     mnode4

```

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ingress-error-pages-54454dc79b-hhb4f	1/1	Running	0	2h
↪ 192.168.2.5				mnode5
ingress-error-pages-54454dc79b-twpgc	1/1	Running	0	2h
↪ 192.168.4.4				mnode2

OpenStack PODs

```
ubuntu@mnode1:~$ kubectl get pods -n openstack --show-all=false -o wide
Flag --show-all has been deprecated, will be removed in an upcoming release
NAME                                READY   STATUS    RESTARTS    
↪ AGE      IP             NODE
cinder-api-66f4f9678-2lgwk          1/1     Unknown  0            
↪ 47m      192.168.3.41  mnode3
cinder-api-66f4f9678-flvr5          1/1     Running  0            
↪ 47m      192.168.0.202 mnode1
cinder-api-66f4f9678-w5xhd          1/1     Running  0            
↪ 26m      192.168.4.45  mnode2
cinder-backup-659b68b474-582kr      1/1     Running  0            
↪ 47m      192.168.4.39  mnode2
cinder-scheduler-6778f6f88c-mm9mt   1/1     Running  0            
↪ 47m      192.168.0.201 mnode1
cinder-volume-79b9bd8bb9-qsxdk      1/1     Running  0            
↪ 47m      192.168.4.40  mnode2
glance-api-676fd49d4d-4tnm6         1/1     Running  0            
↪ 26m      192.168.0.212 mnode1
glance-api-676fd49d4d-j4bdb         1/1     Unknown  0            
↪ 51m      192.168.3.37  mnode3
glance-api-676fd49d4d-wtxqt        1/1     Running  0            
↪ 51m      192.168.4.31  mnode2
ingress-7b4bc84cdd-9fs78            1/1     Running  0            
↪ 2h       192.168.5.3   mnode4
ingress-7b4bc84cdd-wztz7            1/1     Running  0            
↪ 2h       192.168.1.4   mnode6
ingress-error-pages-586c7f86d6-2jl5q 1/1     Running  0            
↪ 2h       192.168.2.4   mnode5
ingress-error-pages-586c7f86d6-455j5 1/1     Unknown  0            
↪ 2h       192.168.3.3   mnode3
ingress-error-pages-586c7f86d6-55j4x 1/1     Running  0            
↪ 26m      192.168.4.47  mnode2
keystone-api-5bcc7cb698-dzm8q        1/1     Running  0            
↪ 1h       192.168.4.24  mnode2
keystone-api-5bcc7cb698-vvwvr        1/1     Unknown  0            
↪ 1h       192.168.3.25  mnode3
keystone-api-5bcc7cb698-wx5l6        1/1     Running  0            
↪ 26m      192.168.0.213 mnode1
mariadb-ingress-84894687fd-9lmpx     1/1     Running  0            
↪ 26m      192.168.4.48  mnode2
mariadb-ingress-84894687fd-dfnkm     1/1     Unknown  2            
↪ 1h       192.168.3.20  mnode3
mariadb-ingress-error-pages-78fb865f84-p8lpg 1/1     Running  0            
```

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↪1h	192.168.4.17	mnode2					
mariadb-server-0			1/1	Running	0		└
↪1h	192.168.4.18	mnode2					
memcached-memcached-5db74ddfd5-926ln			1/1	Running	0		└
↪26m	192.168.4.49	mnode2					
memcached-memcached-5db74ddfd5-wfr9q			1/1	Unknown	0		└
↪1h	192.168.3.23	mnode3					
rabbitmq-rabbitmq-0			1/1	Unknown	0		└
↪1h	192.168.3.21	mnode3					
rabbitmq-rabbitmq-1			1/1	Running	0		└
↪1h	192.168.4.19	mnode2					
rabbitmq-rabbitmq-2			1/1	Running	0		└
↪1h	192.168.0.195	mnode1					

TROUBLESHOOTING

Sometimes things go wrong. These guides will help you solve many common issues with the following:

6.1 Database Deployments

This guide is to help users debug any general storage issues when deploying Charts in this repository.

6.1.1 Galera Cluster

To test MariaDB, do the following:

```
admin@kubenode01:~/projects/openstack-helm$ kubectl exec mariadb-0 -it -n_
↪openstack -- mysql -h mariadb.openstack -uroot -ppassword -e 'show_
↪databases;'
+-----+
| Database          |
+-----+
| information_schema |
| keystone           |
| mysql              |
| performance_schema |
+-----+
admin@kubenode01:~/projects/openstack-helm$
```

6.2 Persistent Storage

This guide is to help users debug any general storage issues when deploying charts in this repository.

6.2.1 Ceph

Ceph Deployment Status

First, we want to validate that Ceph is working correctly. This can be done with the following Ceph command:

```
admin@kubenode01:~$ MON_POD=$(kubectl get --no-headers pods -n=ceph -l=
↪"application=ceph,component=mon" | awk '{ print $1; exit }')
admin@kubenode01:~$ kubectl exec -n ceph ${MON_POD} -- ceph -s
cluster:
  id:      06a191c7-81bd-43f3-b5dd-3d6c6666af71
```

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```

health: HEALTH_OK

services:
  mon: 1 daemons, quorum att.port.direct
  mgr: att.port.direct(active)
  mds: cephfs-1/1/1 up {0=mds-ceph-mds-68c9c76d59-zqc55=up:active}
  osd: 1 osds: 1 up, 1 in
  rgw: 1 daemon active

data:
  pools:    11 pools, 208 pgs
  objects: 352 objects, 464 MB
  usage:    62467 MB used, 112 GB / 173 GB avail
  pgs:     208 active+clean

io:
  client:   253 B/s rd, 39502 B/s wr, 1 op/s rd, 8 op/s wr
admin@kubenode01:~$

```

Use one of your Ceph Monitors to check the status of the cluster. A couple of things to note above; our health is *HEALTH_OK*, we have 3 mons, weve established a quorum, and we can see that all of our OSDs are up and in the OSD map.

PVC Preliminary Validation

Before proceeding, it is important to ensure that you have deployed a client key in the namespace you wish to fulfill PersistentVolumeClaims. To verify that your deployment namespace has a client key:

```

admin@kubenode01: $ kubectl get secret -n openstack pvc-ceph-client-key
NAME                                TYPE                                DATA    AGE
pvc-ceph-client-key                 kubernetes.io/rbd                  1        8h

```

Without this, your RBD-backed PVCs will never reach the Bound state. For more information, see how to [activate namespace for ceph](#).

Note: This step is not relevant for PVCs within the same namespace Ceph was deployed.

Ceph Validating PVC Operation

To validate persistent volume claim (PVC) creation, weve placed a test manifest [here](#). Deploy this manifest and verify the job completes successfully.

Ceph Validating StorageClass

Next we can look at the storage class, to make sure that it was created correctly:

```

admin@kubenode01:~$ kubectl describe storageclass/general
Name:                general
IsDefaultClass:     No
Annotations:         <none>
Provisioner:         ceph.com/rbd

```

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```
Parameters:      adminId=admin, adminSecretName=pvc-ceph-conf-combined-
↳storageclass, adminSecretNamespace=ceph, imageFeatures=layering, imageFormat=2,
↳monitors=ceph-mon.ceph.svc.cluster.local:6789, pool=rbd, userId=admin,
↳userSecretName=pvc-ceph-client-key
ReclaimPolicy:   Delete
Events:          <none>
admin@kubenode01:~$
```

The parameters are what were looking for here. If we see parameters passed to the StorageClass correctly, we will see the `ceph-mon.ceph.svc.cluster.local:6789` hostname/port, things like `userid`, and appropriate secrets used for volume claims.

6.3 Ubuntu HWE Kernel

To make use of CephFS in Ubuntu the HWE Kernel is required, until the issue described [here](#) is fixed.

6.3.1 Installation

To deploy the HWE kernel, prior to deploying Kubernetes and OpenStack-Helm the following commands should be run on each node:

```
#!/bin/bash
sudo -H apt-get update
sudo -H apt-get install -y linux-generic-hwe-16.04
sudo -H reboot now
```

6.4 Backing up a PVC

Backing up a PVC stored in Ceph, is fairly straightforward, in this example we use the PVC `mysql-data-mariadb-server-0` as an example, but this will also apply to any other services using PVCs eg. RabbitMQ, Postgres.

```
# get all required details
NS_NAME="openstack"
PVC_NAME="mysql-data-mariadb-server-0"
# you can check this by running kubectl get pvc -n ${NS_NAME}

PV_NAME="$(kubectl get -n ${NS_NAME} pvc "${PVC_NAME}" --no-headers | awk '{
↳print $3 }')"
```

```
RBD_NAME="$(kubectl get pv "${PV_NAME}" -o json | jq -r '.spec.rbd.image')"
```

```
MON_POD=$(kubectl get pods \
  --namespace ceph \
  --selector="application=ceph" \
  --selector="component=mon" \
  --no-headers | awk '{ print $1; exit }')
```

```
# copy admin keyring from ceph mon to host node

kubectl exec -it ${MON_POD} -n ceph -- cat /etc/ceph/ceph.client.admin.
```

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```

↪keyring > /etc/ceph/ceph.client.admin.keyring
sudo kubectl get cm -n ceph ceph-etc -o json|jq -j .data[] > /etc/ceph/ceph.
↪conf

export CEPH_MON_NAME="ceph-mon-discovery.ceph.svc.cluster.local"

# create snapshot and export to a file

rbd snap create rbd/${RBD_NAME}@snap1 -m ${CEPH_MON_NAME}
rbd snap list rbd/${RBD_NAME} -m ${CEPH_MON_NAME}

# Export the snapshot and compress, make sure we have enough space on host to
↪accommodate big files that we are working .

# a. if we have enough space on host

rbd export rbd/${RBD_NAME}@snap1 /backup/${RBD_NAME}.img -m ${CEPH_MON_NAME}
cd /backup
time xz -0vk --threads=0 /backup/${RBD_NAME}.img

# b. if we have less space on host we can directly export and compress in
↪single command

rbd export rbd/${RBD_NAME}@snap1 -m ${CEPH_MON_NAME} - | xz -0v --threads=0 >
↪ /backup/${RBD_NAME}.img.xz

```

Restoring is just as straightforward. Once the workload consuming the device has been stopped, and the raw RBD device removed the following will import the back up and create a device:

```

cd /backup
unxz -k ${RBD_NAME}.img.xz
rbd import /backup/${RBD_NAME}.img rbd/${RBD_NAME} -m ${CEPH_MON_NAME}

```

Once this has been done the workload can be restarted.

6.5 Migrating Ceph to Rook

It may be necessary or desired to migrate an existing Ceph cluster that was originally deployed using the Ceph charts in `openstack-helm-infra` to be managed by the Rook operator moving forward. This operation is not a supported Rook feature, but it is possible to achieve.

The procedure must completely stop and start all of the Ceph pods a few times during the migration process and is therefore disruptive to Ceph operations, but the result is a Ceph cluster deployed and managed by the Rook operator that maintains the same cluster FSID as the original with all OSD data preserved.

The steps involved in migrating a legacy openstack-helm Ceph cluster to Rook are based on the Rook [Troubleshooting](#) documentation and are outlined below.

1. Retrieve the cluster FSID, the name and IP address of an existing ceph-mon host that contains a healthy monitor store, and the numbers of existing ceph-mon and ceph-mgr pods from the existing Ceph cluster and save this information for later.

2. Rename CephFS pools so that they use the naming convention expected by Rook. CephFS pools names are not customizable with Rook, so new metadata and data pools will be created for any filesystems deployed by Rook if the existing pools are not named as expected. Pools must be named <filesystem name>-metadata and <filesystem name>-data in order for Rook to use existing CephFS pools.
3. Delete Ceph resources deployed via the openstack-helm-infra charts, uninstall the charts, and remove Ceph node labels.
4. Add the Rook Helm repository and deploy the Rook operator and a minimal Ceph cluster using the Rook Helm charts. The cluster will have a new FSID and will not include any OSDs because the OSD disks are all initialized in the old Ceph cluster and that will be recognized.
5. Save the Ceph monitor keyring, host, and IP address, as well as the IP address of the new monitor itself, for later use.
6. Stop the Rook operator by scaling the rook-ceph-operator deployment in the Rook operator namespace to zero replicas and destroy the newly-deployed Ceph cluster by deleting all deployments in the Rook Ceph cluster namespace except for rook-ceph-tools.
7. Copy the store from an old monitor saved in the first step to the new monitor and update its keyring with the key saved from the new monitor.
8. Edit the monmap in the copied monitor store using monmaptool to remove all of the old monitors from the monmap and add a single new one using the new monitors IP address.
9. Edit the rook-ceph-mon secret in the Rook Ceph cluster namespace and overwrite the base64-encoded FSID with the base64 encoding of the FSID from the old Ceph cluster. Make sure the encoding includes the FSID only, no whitespace or newline characters.
10. Edit the rook-config-override configmap in the Rook Ceph cluster namespace and set auth_supported, auth_client_required, auth_service_required, and auth_cluster_required all to none in the global config section to disable authentication in the Ceph cluster.
11. Scale the rook-ceph-operator deployment back to one replica to deploy the Ceph cluster again. This time, the cluster will have the old clusters FSID and the OSD pods will come up in the new cluster with their data intact.
12. Using ceph auth import from the rook-ceph-tools pod, import the [client.admin] portion of the key saved from the new monitor from its initial Rook deployment.
13. Edit the rook-config-override configmap again and remove the settings previously added to disable authentication. This will re-enable authentication when Ceph daemons are restarted.
14. Scale the rook-ceph-operator deployment to zero replicas and delete the Ceph cluster deployments again to destroy the Ceph cluster one more time.
15. When everything has terminated, immediately scale the rook-ceph-operator deployment back to one to deploy the Ceph cluster one final time.
16. After the Ceph cluster has been deployed again and all of the daemons are running (with authentication enabled now), edit the deployed cephcluster resource in the Rook Ceph cluster namespace to set the mon and mgr counts to their original values saved in the first step.
17. Now you have a Ceph cluster, deployed and managed by Rook, with the original FSID and all of its data intact, with the same number of monitors and managers that existed in the previous deployment.

There is a rudimentary [script](#) provided that automates this process. It isn't meant to be a complete solution and isn't supported as such. It is simply an example that is known to work for some test implementations.

The script makes use of environment variables to tell it which Rook release and Ceph release to deploy, in which Kubernetes namespaces to deploy the Rook operator and Ceph cluster, and paths to YAML files that contain the necessary definitions for the Rook operator and Rook Ceph cluster. All of these have default values and are not required to be set, but it will likely be necessary at least to define paths to the YAML files required to deploy the Rook operator and Ceph cluster. Please refer to the comments near the top of the script for more information about utilizing these environment variables.

The Ceph cluster definition provided to Rook should match the existing Ceph cluster as closely as possible. Otherwise, the migration may not migrate Ceph cluster resources as expected. The migration of deployed Ceph resources is unique to each deployment, so sample definitions are not provided here.

Migrations using this procedure and/or script are very delicate and will require a lot of testing prior to being implemented in production. This is a risky operation even with testing and should be performed very carefully.

6.6 Getting help

6.6.1 Channels

- Join us on [IRC](#): #openstack-helm on oftc
- Join us on [Slack](#) - #openstack-helm

6.6.2 Bugs and Feature requests

Please, refer to [Contribution guidelines](#).

PROJECT SPECIFICATIONS

Specifications in this repository represent a consensus on the topics covered within. They should be considered a mandate on the path forward with regards to the content on which they are drafted.

Here is a list of the current specs:

7.1 Charts versioning

7.1.1 Problem Description

There are issues:

- All Openstack-Helm charts depend on the helm-toolkit subchart, but the helm-toolkit version is not pinned. When helm-toolkit is updated, we dont bump the version of the charts that depend on it and re-publish them. This can change the behavior of the charts while the version of the chart tarball remains unchanged.
- We use `chart-testing` to lint the charts. The chart-testing tool requires that the chart version is bumped every time any file in the chart directory is changed. In every chart, we have a `values_overrides` directory where we store the version-specific overrides as well as example overrides for some specific configurations. These overrides are not part of the chart tarball, but when they are changed, we bump the chart version.
- We use `apiVersion: v1` in `Chart.yaml`, and dependencies are stored in a separate `requirements.yaml` file. However, `apiVersion: v2` allows defining dependencies directly in the `Chart.yaml` file.
- We track the release notes in a separate directory and we dont have a `CHANGELOG.md` file in chart tarballs.
- Chart maintainers are assumed to update the same release notes file when they change the same chart in two separate commits. This leads to merge conflicts that are now resolved manually which is inconvenient. This is because we are misusing the Reno tool which is designed to avoid merge conflicts in the release notes.
- All the chart versions are independent of each other and do not follow the Openstack release versioning which makes it difficult for users to understand which version of the chart corresponds to which Openstack release.

7.1.2 Proposed Change

We propose to do the following:

- Move values overrides to a separate directory.
- Use `apiVersion: v2` in `Chart.yaml`.

- Move release notes to the CHANGELOG.md files.
- Once the Openstack is released we will bump the version of all charts to this new release, for example *2025.1.0*. Semver assumes the following:
 - MAJOR version when you make incompatible API changes
 - MINOR version when you add functionality in a backward compatible manner
 - PATCH version when you make backward compatible bug fixes

However, we will not strictly follow these assumptions. We will still follow the policy that the last version of any chart must be compatible with all currently maintained versions of Openstack (usually 3 most recent versions). All the changes between Openstack releases will be backward compatible.

We will not bump the chart version in the git repo when we update chart. Instead, we will increment the PATCH automatically when building the tarball. The PATCH will be calculated as the number of commits related to a given chart after the latest git tag. So for example if the latest tag is *2024.2.0* and we have 3 commits in the nova chart after this tag, the version of the nova tarball will be *2024.2.3*.

All the tarballs will be published with the build metadata showing the commit SHA sum with which the tarball is built. The tarball version will look like *2025.1.X+<osh_commit_sha>_<osh_infra_commit_sha>*.

7.1.3 Implementation

Assignee(s)

Primary assignees:

kozhukalov (Vladimir Kozhukalov <kozhukalov@gmail.com>)

Work Items

The following work items need to be completed for this specification to be implemented.

Values overrides

Move `values_overrides` from all charts to a separate directory `values` with the hierarchy `values_overrides/<chart-name>/<feature1>_<feature2>.yaml`. The Openstack-Helm plugin is able to lookup the overrides in an arbitrary directory, but the directory structure must be as described above.

Update the version of all charts to 2024.2.0

All the charts must be updated to the version *2024.2.0* in a single commit. While developing the charts we will not change the version of the charts in their Chart.yaml files in the git repo. So, in the git repos the versions of all charts will be the same, e.g. *2024.2.0*. It will be changed twice a year when the Openstack is released and the version update commit will be tagged appropriately.

However when we build a chart the tarball version will be updated every time. The tarball version will be calculated automatically *2024.2.X+<osh_commit_sha>_<osh_infra_commit_sha>* where *X* is the number of commits related to the chart after the latest tag.

```
$ PATCH=$(git log --oneline <tag>.. <chart_directory> | wc -l)
$ OSH_COMMIT_SHA=$(cd ${SRC}/openstack-helm; git rev-parse --short HEAD)
$ OSH_INFRA_COMMIT_SHA=$(cd ${SRC}/openstack-helm-infra; git rev-parse --
→short HEAD)
$ helm package <chart> --version 2024.2.${PATCH}+${OSH_COMMIT_SHA}_${OSH_
→INFRA_COMMIT_SHA}
```

Note

When the chart itself is not changed but is re-built with the new version of the helm-toolkit, the PATCH will not be changed and the tarball will be published with the same version but with the new build metadata (`${OSH_INFRA_COMMIT_SHA}`).

Set git tag for the Openstack-Helm repositories

We will set the git tag `2024.2.0` for all the Openstack-Helm repositories. These tags are set by means of submitting a patch to the `openstack/releases` repository. Since that we will set such tag twice a year when the Openstack is released.

Update `apiVersion` in `Chart.yaml`

Update `apiVersion` to `v2` in all `Chart.yaml` files and migrate the dependencies (`helm-toolkit`) from `requirements.yaml` to `Chart.yaml`.

Reorganize the process of managing release notes

The Reno tool (a Python package used for managing release notes) can be used in a way that allows to avoid merge conflicts for PRs that update the same chart. It generates the release notes report using the git history.

We suggest the following workflow:

- When a chart is updated, the maintainer runs the `reno new <chart>` command to create a new release note file `releasenotes/notes/<chart>-<hash>.yaml`.
- The maintainer fills in the new release note file with the necessary information.
- The maintainer commits the release note file.
- While building the tarball we will use `reno report` command with a custom script to generate the release notes report and automatically prepare the `<chart>/CHANGELOG.md` file.

Since we are not going to bump the chart version when we update it, all the release notes will be bound to some git commits and we be put under the headers that correspond to git tags.

The format of the `CHANGELOG.md` file:

```
## X.Y.Z-<num_commits_after_X.Y.Z>

- Some new update

## X.Y.Z
```

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- ```
- Some update
- Previous update
```

Where *X.Y.Z* is the tag in the git repository and the *X.Y.Z* section contains all the release notes made before the tag was set. The *X.Y.Z-<num\_commits\_after\_X.Y.Z>* section contains all the release notes made after the tag was set.

At this point we have the only tag *0.1.0*. So, when we set the *2024.2.0* tag almost all the release notes will go to this tag and the *CHANGELOG.md* file. So it will look like:

```
2024.2.0-<num_commits_after_2024.2.0>

- Some new update

2024.2.0

- Some update
- Previous update
```

## Update the versioning policy

- When the helm-toolkit chart is updated and tested with all other charts, we will re-build it and publish with the new version according to how it is described above. All other charts also will be re-built with this new version of helm-toolkit (inside) and published with the new build metadata (new *\$OSH\_INFRA\_COMMIT\_SHA*). Helm-toolkit version will not be pinned in the charts.
- When a particular chart is changed, we will re-build and publish only this chart. So all charts will be built and published independently of each other. All the test jobs must be able to use updated chart from the PR with other charts taken from the public helm repository (tarballs).

Alternatively, we could pin the helm-toolkit version in the charts, but this would make the maintenance of the charts more complicated.

### 7.1.4 Documentation Impact

The user documentation must be updated and it must be emphasized that the chart version is not equal to the Openstack release version and that the Openstack version is defined by the images used with the charts. Also it must be explained that a particular version like *2024.2.X* is compatible with those Openstack releases that were maintained at the time *2024.2.X* was built and published (i.e *2023.1*, *2023.2*, *2024.1*, *2024.2*).

## 7.2 Developer Environment

<https://blueprints.launchpad.net/openstack-helm/+spec/developer-environment>

### 7.2.1 Problem Description

Developers require a simple way of instantiating a working environment for OpenStack-Helm, that allows them to quickly begin development of the project. This is more complex to achieve than many OpenStack Projects that can simply rely upon a devstack plugin to achieve this. This is as OpenStack-Helm is focused on the deployment of OpenStack (and associated) Projects, rather than the development of the projects themselves, and also requires additional supporting infrastructure, e.g. Kubernetes and a CNI.

## Use cases

1. Development of OpenStack-Helm
2. PoC deployments of OpenStack-Helm

### 7.2.2 Proposed Change

The OpenStack-Helm Zuulv2 gates were written to allow use outside of OpenStack-Infra, to quickly set up a Kubernetes cluster, with the adoption of Zuulv3 underway it is logical to extend this paradigm to the Zuulv3 Playbooks. This will be driven via a `Makefile` that will allow developers to perform the following actions:

- Prepare Host(s) for OpenStack-Helm deployment
- Deploy Kubernetes via KubeADM, with charts for CNI and DNS services

At this point, curated scripts will be used to deploy OpenStack-Helm services on demand as desired, with documentation provided to allow a new developer to quickly set up either a single or multimode deployment of a reference [OpenStack Compute Kit](#) environment with the addition of:

- Ceph backed Object Storage
- Ceph backed Block Storage (cinder)
- Orchestration (heat)
- Web UI (horizon)

A set of scripts will be provided to exercise the deployed environment that checks the basic functionality of the deployed cloud, driven where possible via OpenStack heat:

- Create external network
- Setup access to the external network from the development machine
- Create tenant network
- Create tenant router to link tenant network and external
- Create SSH Key in nova
- Create VM on tenant network
- Assign Floating IP to VM
- SSH into VM and check it can access the internet

This deployment process will be gated, to ensure that the development the environment is consistently working against master for the OpenStack-Helm repositories.

### Security Impact

There will be no security impact, as it will deploy the charts in OpenStack-Helm[-infra/-addons] upon a reference KubeADM administered cluster.

### Performance Impact

This feature will not affect the performance of OpenStack-Helm.

## Alternatives

The alternative would be to continue supporting the current bash driven containerized KubeADM and Kubelet approach, though this has the following issues:

- The containerized Kubelet cannot survive a restart, as it does not setup mounts correctly.
- The bash scripts are largely undocumented and have grown to the point where they are very hard for a new developer to work on.
- The move to Zuulv3 native operation of the OpenStack-Helm gates mean there would be no code reuse between the gate and developer environments, so supporting the existing code for Zuulv2 will incur significant tech-debt.

### 7.2.3 Implementation

#### Assignee(s)

**Primary assignee:**

portdirect (Pete Birley)

#### Work Items

The following work items need to be completed for this Specification to be implemented.

- Update of Developer Documentation
- Update of Makefile for OpenStack-Helm-Infra to allow modular deployment of components
- Develop scripts for bringing up OpenStack-Helm Charts and perform basic interactive tests
- Add gate for developer environment

### 7.2.4 Testing

A gate will be added to OpenStack-Helm that runs through the developer environment deployment process.

### 7.2.5 Documentation Impact

The developer documentation in OpenStack-Helm should be updated to match the gated developer deploy process.

## 7.3 fluentbit-fluentd logging architecture

Blueprints: 1. [osh-logging-framework](#)

Related Specs: 1. OSH logging monitoring and alerting: <https://review.openstack.org/#/c/482687/>

### 7.3.1 Problem Description

OpenStack-Helm defines a centralized logging mechanism to provide insight into the state of the OpenStack services and infrastructure components as well as underlying Kubernetes platform. Among the requirements for a logging platform, where log data can come from and where log data need to be delivered are very variable. To support various logging scenarios, OpenStack-Helm should provide a flexible mechanism to meet with certain operation needs. This spec proposes fast and lightweight log forwarder

and full featured log aggregator complementing each other providing a flexible and reliable solution. Especially, Fluentbit is proposed as a log forwarder and Fluentd is proposed as a main log aggregator and processor.

## 7.3.2 Platform Requirements

### Logging Requirements

The requirements for a logging collector/aggregator include:

1. Log collection daemon runs on each node to forward logs to aggregator
2. Log collection daemon should have a minimal server footprint
3. Log aggregator deployment runs on a selected node as deployment
4. Ability to apply custom metadata and uniform format to logs
5. Log aggregator should have HA capability
6. Log aggregator should have a flexible output capability to choose from
7. Log aggregator is able to send data to Elasticsearch and Kafka
8. Log aggregator should be scalable

### Logical Diagram

1. diagram link: <https://github.com/sktelecom-oslab/docs/blob/master/images/fluentbit-fluentd-diagram.png>

## 7.3.3 Use Cases

### Logging Use Cases

Example uses for centralized logging with Fluentbit and Fluentd include:

1. Cover the following logging use cases <https://review.openstack.org/#/c/482687/>
2. Collect logs from the node by Fluentbit
3. Every Fluentbit send logs to Fluentd with Kubernetes metadata attached
4. Fluentd then attaches Kubernetes and/or OpenStack metadata
5. Fluentd properly filters and categorizes logs
6. Fluentd send aggregated logs to Elasticsearch for the internal use cases
7. Aggregator also send aggregated logs to Kafka for external tools to consume

## 7.3.4 Proposed Change

### Logging

Fluentbit, Fluentd meet OpenStack-Helms logging requirements for gathering, aggregating, and delivering of logged events. Fluntbit runs as a daemonset on each node and mounts the `/var/lib/docker/containers` directory. The Docker container runtime engine directs events posted to `stdout` and `stderr` to this directory on the host. Fluentbit then forward the contents of that directory to Fluentd. Fluentd runs as deployment at the designated nodes and expose service for Fluentbit to forward logs. Fluentd should then apply the Logstash format to the logs. Fluentd can also write Kubernetes and OpenStack metadata to the logs.

Fluentd will then forward the results to Elasticsearch and to optionally Kafka. Elasticsearch indexes the logs in a logstash-\* index by default. Kafka stores the logs in a logs topic by default. Any external tool can then consume the logs topic.

The proposal includes the following:

1. Helm chart for Fluentbit-Fluentd Combination

The above chart must include sensible configuration values to make the logging platform usable by default. These include: proper input configurations for both Fluentbit and Fluentd, proper output configurations for both Fluentbit and Fluentd, proper metadata and formats applied to the logs via Fluentd.

### Security Impact

All services running within the platform should be subject to the security practices applied to the other OpenStack-Helm charts.

### Performance Impact

To minimize the performance impacts, the following should be considered:

1. Sane defaults for log retention and rotation policies

## 7.3.5 Implementation

### Assignee(s)

#### Primary assignees:

sungil (Sungil Im) jayahn (Jaesuk Ahn)

### Work Items

1. Fluentbit-Fluentd logging chart

All charts should follow design approaches applied to all other OpenStack-Helm charts, including the use of helm-toolkit.

All charts require valid and sensible default values to provide operational value out of the box.

## 7.3.6 Testing

Testing should include Helm tests for each of the included charts as well as an integration test in the gate.

## 7.3.7 Documentation Impact

Documentation should be included for each of the included charts as well as documentation detailing the requirements for a usable monitoring platform, preferably with sane default values out of the box.

## 7.4 Multi-OS Support

Include the URL of your Storyboard RFE:

<https://storybook.openstack.org/#!/story/2005130>



### 7.4.1 Problem Description

Our *Images* documentation claims to be independent of the image. However, some helm charts hard code paths of binaries, executables runtime configurations, etc. Therefore, the image agnostic promise is broken.

We need to adapt all the helm charts to remove the hard-coded bits, be image agnostic, to allow users to bring their own images.

#### Use cases

Allow the usage of multiple base images in OSH.

### 7.4.2 Proposed Change

Edit all helm charts to remove possible references to image specific elements, replacing them with values overrides or conditionals.

It is important to notice that the helm charts can be split in two categories for now:

1. Helm charts for which we use official upstream images. (Called further Category A helm charts)
2. Helm charts for which we are building images in osh-images. (Called further Category B helm charts)

For the Category B helm charts, an informal testing has been done in the past to ensure image independence. However, there is nothing exercising this independence in gates. Due to that, code of the helm charts might or might not require adapting.

In all cases, we will need to provide different profiles (in other words, overrides), to test different image providers use cases in CI.

The profiles yaml files (for example `centos_7`, `opensuse_15`) will be provided in each charts `example_values/` directory. This folder will be masked to helm through a `helmignore` file. Its content is only for user consumption, not for inclusion in helm charts through the `File` directive. In other words, this is a user interface given for convenience merely using the abilities of the existing helm charts.

The default `values.yaml` need to expose those abilities, by adding a new series of keys/values to add the necessary features.

The existing schema for images is the following:

```
images:
 tags:
 imagename1: imagelocation:version-distro
 imagename2: imagelocation:version-distro
 pull_policy:
 local_registry:
```

For this spec, we assume `imagename1` and `imagename2` are similarly built. This means we do not require any override per image. Instead we require a generic kind of override, per application, usable by all charts.

I propose to extend the conf schema with generic software information. For example, for `apache2`:

```
conf:
 software:
 apache2:
```

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```
#the apache2 binary location
binary: apache2
start_args: -DFOREGROUND
stop_args: -k graceful-stop
#directory where to drop the config files for apache vhosts
conf_dir: /etc/apache2/conf-enabled
sites_dir: /etc/apache2/sites-enabled
```

When possible, `values_overrides/` will refer to existing `helm-toolkit` functions to avoid repeating ourselves.

This approach:

- Proposes a common approach to software configuration, describing the distro/image specific differences for applications.
- Exposes security/configuration features of software, allowing deployers to configure software to their needs.
- Allows different profiles of apache, should some charts require different args for example for the same kind of images, by using yaml dict merges features.

### Security Impact

No direct impact, as there is no change in the current software/configuration location, merely a templating change.

### Performance Impact

No benchmark was done to evaluate:

- the impact of exposing extra key/values in the helm chart `values.yaml` file (could possibly have a deployment speed/ram usage increase).
- the impact of adding functionality in the `helm-toolkit` to deal with a common multi-distro aspect (could possibly increase helm chart rendering time)
- the impact of adding extra conditionals in the helm charts, to deal with multi-distro aspect (if not using the approach above, or when using an alternative approach)

The performance aspect of these point are restricted to deployment, and have no performance impact on operations.

### Alternatives

- Not providing a support of multiple images. This leads to ease of maintainance and reduced gate impact, with the risk of having less contributors. For available overrides, users would have to provide many overrides themselves, while this spec proposes a common community approach.
- Create conditionals in the helm charts. This is problematic, as the amount of conditionals will increase and will be harder to maintain. Overrides files are easy to sync between charts.
- Only provide one way to configure software, and expect to always have the same versions. This is further away from the image independent contract, with extra burden: We will need to maintain a curated list of versions, deal with the differences of the defaults (selinux/apparmor profiles come to mind as path sensitive for example), and different expectations for operational teams (The code is

not where I expect it to be in the image). Embracing difference could even allow deployers to have different expectations for images, for example: apache+mod\_wsgi vs uwsgi standalone or uwsgi + nginx.

### 7.4.3 Implementation

#### Assignee(s)

##### Primary assignee:

- evrardjp

#### Work Items

This spec will be worked helm chart by helm chart, starting with keystone.

A few areas have been identified on changes required. Each of them will be a work item.

1. Make webserver binary path/arguments templated using `values.yaml`. As expressed above, this allows us to provide different overrides per image/distribution to automatically wire things.
2. Dynamically alter webserver environment conditionally in the helm chart. For example, for apache, ensure the necessary modules to run openstack are available and loaded at helm chart deploy time. This will leverage the binaries listed in `values.yaml`. These series of commands are distribution/image dependent, as commands to list modules to load might differ. However with a few parameters, we can get a very distro independent process which would allow us to load all the required apache modules.
3. Alter webserver configuration per distro. Different distros have different expectations in terms of path (including a different series of files required), and it would make the operators life easier by using their expected distro paths.

### 7.4.4 Testing

No change in testing is required, *per se*. It is expected the new software configuration would be tested with the current practices.

On top of that, the newly provided *example\_values/* must aim for being tested **as soon as possible upon delivery**. Without tests, those examples will decrepit. The changes in CI pipelines for making use of *example\_values* is outside the scope of this spec.

### 7.4.5 Documentation Impact

None more than this spec, as it should be relatively transparent for the user. However, extra documentation to explain the usage of `value_overrides` would be welcomed.

### 7.4.6 References

None

## 7.5 Neutron multiple SDNs

Blueprint: [neutron-multiple-sdns](#)

### 7.5.1 Problem Description

Currently OpenStack-Helm supports OpenVSwitch as a network virtualization engine. In order to support many possible backends (SDNs), changes are required in neutron chart and in deployment techniques. OpenStack-Helm can support every SDN solution that has Neutron plugin, either `core_plugin` or `mechanism_driver`.

The Neutron reference architecture provides `mechanism_drivers` OpenVSwitch (OVS) and linuxbridge (LB) with ML2 `core_plugin` framework.

Other networking services provided by Neutron are:

1. L3 routing - creation of routers
2. DHCP - auto-assign IP address and DNS info
3. Metadata- Provide proxy for Nova metadata service

Introducing a new SDN solution should consider how the above services are provided. It may be required to disable the built-in Neutron functionality.

### 7.5.2 Proposed Change

To be able to install Neutron with multiple possible SDNs as networking plugin, Neutron chart should be modified to enable installation of base services with decomposable approach. This means that operator can define which components from base Neutron chart should be installed, and which should not. This plus proper configuration of Neutron chart would enable operator to flexibly provision OpenStack with chosen SDN.

Every Kubernetes manifest inside Neutron chart can be enabled or disabled. That would provide flexibility to the operator, to choose which Neutron components are reusable with different type of SDNs. For example, `neutron-server` which is serving the API and configuring the database can be used with different types of SDN plugin, and provider of that SDN chart would not need to copy all logic from Neutron base chart to manage the API and database.

The proposed change would be to add in `neutron/values.yaml` new section with boolean values describing which Neutrons Kubernetes resources should be enabled:

```
manifests:
 configmap_bin: true
 configmap_etc: true
 daemonset_dhcp_agent: true
 daemonset_l3_agent: true
 daemonset_metadata_agent: true
 daemonset_ovs_agent: true
 daemonset_ovs_db: true
 daemonset_ovs_vswitchd: true
 deployment_server: true
 deployment_rpc_server: true
 ingress_server: true
 job_db_init: true
 job_db_sync: true
 job_ks_endpoints: true
 job_ks_service: true
 job_ks_user: true
 pdb_server: true
```

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```
secret_db: true
secret_keystone: true
service_ingress_server: true
service_server: true
```

Then, inside Kubernetes manifests, add global if statement, deciding if given manifest should be declared on Kubernetes API, for example `neutron/templates/daemonset-ovs-agent.yaml`:

```
{{- if .Values.manifests.daemonset_ovs_agent }}
Licensed under the Apache License, Version 2.0 (the "License");
...

 - name: libmodules
 hostPath:
 path: /lib/modules
 - name: run
 hostPath:
 path: /run
{{- end }}
```

If `.Values.manifests.daemonset_ovs_agent` will be set to false, neutron ovs agent would not be launched. In that matter, other type of L2 or L3 agent on compute node can be run.

To enable new SDN solution, there should be separate chart created, which would handle the deployment of service, setting up the database and any related networking functionality that SDN is providing.

## Use case

Lets consider how new SDN can take advantage of disaggregated Neutron services architecture. First assumption is that neutron-server functionality would be common for all SDNs, as it provides networking API, database management and Keystone interaction. Required modifications are:

1. Configuration in `neutron.conf` and `m12_conf.ini`
2. Providing the neutron plugin code.

The code can be supplied as modified neutron server image, or plugin can be mounted to original image. The `manifests` section in `neutron/values.yaml` should be enabled for below components:

```
manifests:
neutron-server components:
configmap_bin: true
configmap_etc: true
deployment_server: true
deployment_rpc_server: true
ingress_server: true
job_db_init: true
job_db_sync: true
job_ks_endpoints: true
job_ks_service: true
job_ks_user: true
```

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```
pdb_server: true
secret_db: true
secret_keystone: true
service_ingress_server: true
service_server: true
```

Next, Neutron services like L3 routing, DHCP and metadata serving should be considered. If SDN provides its own implementation, the Neutrons default one should be disabled:

```
manifests:
 daemonset_dhcp_agent: false
 daemonset_l3_agent: false
 daemonset_metadata_agent: false
```

Provision of those services should be included inside SDN chart.

The last thing to be considered is VM network virtualization. What engine does SDN use? It is OpenVSwitch, Linux Bridges or l3 routing (no l2 connectivity). If SDN is using the OpenVSwitch, it can take advantage of existing OVS daemonsets. Any modification that would be required to OVS manifests can be included in base Neutron chart as a configurable option. In that way, the features of OVS can be shared between different SDNs. When using the OVS, default Neutron L2 agent should be disabled, but OVS-DB and OVS-vswitchd can be left enabled.

```
manifests:
 # Neutron L2 agent:
 daemonset_ovs_agent: false
 # OVS tool:
 daemonset_ovs_db: true
 daemonset_ovs_vswitchd: true
```

## Security Impact

No security impact.

## Performance Impact

VM networking performance would be dependent of SDN used.

## Alternatives

Alternatives to decomposable Neutron chart would be to copy whole Neutron chart and create spin-offs with new SDN enabled. This approach has drawbacks of maintaining the whole neutron chart in many places, and copies of standard services may be out of sync with OSH improvements. This implies constant maintenance effort to up to date.

## 7.5.3 Implementation

### Assignee(s)

Primary assignees:

- korzen (Artur Korzeniewski)

- portdirect (Pete Birley)

## Work Items

1. Implement decomposable Neutron chart
2. Add Linux Bridge as first alternative for OVS - separate spec needed.
3. Add one SDN to see if proposed change is working OK - separate spec needed.

## 7.5.4 Testing

First reasonable testing in gates would be to setup Linux Bridge and check if VM network connectivity is working.

## 7.5.5 Documentation Impact

Documentation of how new SDN can be enabled, how Neutron should be configured. Also, for each new SDN that would be incorporated, the architecture overview should be provided.

## 7.5.6 References

## 7.6 Nginx Sidecar

Blueprint: <https://blueprints.launchpad.net/openstack-helm/+spec/nginx-sidecar>

### 7.6.1 Problem Description

In a secured deployment, TLS certificates are used to protect the transports amongst the various components. In some cases, this requires additional mechanism to handle TLS offloading and to terminate the connection gracefully:

- services do not handle TLS offloading and termination,
- services whose native handling of TLS offloading and termination cause major performance impact, for example, eventlet.

### 7.6.2 Proposed Change

This specification proposes to add a nginx sidecar container to the pod for service that requires the tls offloading. The nginx can be used to handle the TLS offloading and terminate the TLS connection, and routes the traffic to the service via localhost (127.0.0.1).

### Security Impact

This enhances the systems security design by allowing pods with services that cannot natively manage TLS to secure the traffic to the service pod.

### Performance Impact

There is no significant performance impact as the traffic will be locally routed (via 127.0.0.1) and may potentially improve performance for services whose native TLS handling is inefficient.

## Alternatives

- Instead of using nginx, haproxy can be used instead.

### 7.6.3 Implementation

#### Assignee(s)

##### Primary assignee:

Pete Birley <pete@port.direct>

#### Work Items

- Update `helm toolkit` to provide snippet to create the nginx sidecar container for the services that require it.
- Update service charts to use the updated `helm toolkit`.
- Update relevant Documentation.

### 7.6.4 Testing

The testing will be performed by the OpenStack-Helm gate to demonstrate the sidecar container correctly routes traffic to the correct services.

### 7.6.5 Documentation Impact

OpenStack-Helm documentation will be updated to indicate the usage of the nginx sidecar.

## 7.7 OpenStack-Helm 1.0 Requirements

Topic: `osh-1.0-requirements`

### 7.7.1 Problem Description

OpenStack-Helm has undergone rapid development and maturation over its lifetime, and is nearing the point of real-world readiness. This spec details the functionality that must be implemented in OpenStack-Helm for it to be considered ready for a 1.0 release, as well as for general use.

#### Use case

This spec describes a point-in-time readiness for OpenStack-Helm 1.0, after which it will be for historical reference only.

### 7.7.2 Proposed Change

The proposed requirements for a 1.0 release are as follows:

#### Gating

A foundational requirement of 1.0 readiness is the presence of robust gating that will ensure functionality, backward compatibility, and upgradeability. This will allow development to continue and for support for new versions of OpenStack to be added post-1.0. The following gating requirements must be met:

#### Helm test for all charts



Helm test is the building block for all gating. Each chart must integrate a helm-test script which validates proper functionality. This is already a merge criterion for new charts, but a handful of older charts still need for helm test functionality to be added. No additional charts will be merged prior to 1.0 unless they meet this requirement (and others in this document).

### **Resiliency across reboots**

All services should survive node reboots, and their functionality validated following a reboot by a gate.

### **Upgrades**

Gating must prove that upgrades from each supported OpenStack version to the next operate flawlessly, using the default image set (LOCI). Specifically, each OpenStack chart should be upgraded from one release to the next, and each infrastructure service from one minor version to the next. Both the container image and configuration must be modified as part of this upgrade. At minimum, Newton to Ocata upgrade must be validated for the 1.0 release.

### **Code Completion and Refactoring**

A number of in-progress and planned development efforts must be completed prior to 1.0, to ensure a stable OpenStack-Helm interface thereafter.

### **Charts in the appropriate project**

All charts should migrate to their appropriate home project as follows:

- OpenStack-Helm for OpenStack services
- OpenStack-Helm-Infra for supporting services
- OpenStack-Helm-Addons for ancillary services

In particular, these charts must move to OpenStack-Helm-Infra:

- ceph
- etcd
- ingress
- ldap
- libvirt
- mariadb
- memcached
- mongodb
- openvswitch
- postgresql
- rabbitmq

### **Combined helm-toolkit**

Currently both OpenStack-Helm and OpenStack-Helm-Infra have their own parallel versions of the Helm-Toolkit library chart. They must be combined into a single chart in OpenStack-Helm-Infra prior to 1.0.

### **Standardization of manifests**

Work is underway to refactor common manifest patterns into reusable snippets in Helm-Toolkit. The following manifests have yet to be combined:

- Database drop Job
- Prometheus exporters
- API Deployments
- Worker Deployments
- StatefulSets
- CronJobs
- Etc ConfigMaps
- Bin ConfigMaps

### Standardization of values

OpenStack-Helm has developed a number of conventions around the format and ordering of charts *values.yaml* file, in support of both reusable Helm-Toolkit functions and ease of developer ramp-up. For 1.0 readiness, OpenStack-Helm must cement these conventions within a spec, as well as the ordering of *values.yaml* keys. These conventions must then be gated to guarantee conformity. The spec in progress can be found here<sup>1</sup>.

### Inclusion of all core services

Charts for all core OpenStack services must be present to achieve 1.0 releasability. The only core service outstanding at this time is Swift.

### Split Ceph chart

The monolithic Ceph chart does not allow for following Ceph upgrade best practices, namely to upgrade Mons, OSDs, and client services in that order. The Ceph chart must therefore be split into at least three charts (one for each of the above upgrade phases) prior to 1.0 to ensure smooth in-place upgradability.

### Values-driven config files

In order to maximize flexibility for operators, and to help facilitate upgrades to newer versions of containerized software without editing the chart itself, all configuration files will be specified dynamically based on *values.yaml* and overrides. In most cases the config files will be generated based on the YAML values tree itself, and in some cases the config file content will be specified in *values.yaml* as a string literal.

## Documentation

Comprehensive documentation is key to the ability for real-world operators to benefit from OpenStack-Helm, and so it is a requirement for 1.0 releasability. The following outstanding items must be completed from a documentation perspective:

### Document version requirements

Version requirements for the following must be documented and maintained:

- Kubernetes
- Helm
- Operating system

---

<sup>1</sup> <https://review.openstack.org/#/c/552485/>

- External charts (Calico)

### Document Kubernetes requirements

OpenStack-Helm supports a bring your own Kubernetes paradigm. Any particular k8s configuration or feature requirements must be documented.

- Hosts must use KubeDNS / CoreDNS for resolution
- Kubernetes must enable mount propagation (until it is enabled by default)
- Helm must be installed

Examples of how to set up the above under KubeADM and KubeSpray-based clusters must be documented as well.

### OpenStack-Helm release process

The OpenStack-Helm release process will be somewhat orthogonal to the OpenStack release process, and the differences and relationship between the two must be documented in a spec. This will help folks quickly understand why OpenStack-Helm is a Release-Independent project from an OpenStack perspective.

### Release notes

Release notes for the 1.0 release must be prepared, following OpenStack best practices. The criteria for future changes that should be included in release notes in an ongoing fashion must be defined / documented as well.

- *values.yaml* changes
- New charts
- Any other changes to the external interface of OpenStack-Helm

### LMA Operations Guide

A basic Logging, Monitoring, and Alerting-oriented operations guide must be in place, illustrating for operators (and developers) how to set up and use an example LMA setup for OpenStack and supporting services. It will include instructions on how to perform basic configuration and how to access and use the user interfaces at a high level. It will also link out to more detailed documentation for the LMA tooling itself.

### Process and Tooling

To facilitate effective collaboration and communication across the OpenStack-Helm community team, work items for the enhancements above will be captured in Storyboard. Therefore, migration from Launchpad to Storyboard must be accomplished prior to the 1.0 release. Going forward, Storyboard will be leveraged as a tool to collaboratively define and communicate the OpenStack-Helm roadmap.

### Security Impact

No impact

### Performance Impact

No impact

## Alternatives

This spec lays out the criteria for a stable and reliable 1.0 release, which can serve as the basis for real-world use as well as ongoing development. The alternative approaches would be to either iterate indefinitely without defining a 1.0 release, which would fail to signal to operators the point at which the platform is ready for real-world use; or, to define a 1.0 release which fails to satisfy key features which real-world operators need.

### 7.7.3 Implementation

This spec describes a wide variety of self-contained work efforts, which will be implemented individually by the whole OpenStack-Helm team.

#### Assignee(s)

Primary assignee:

- mattmceuen (Matt McEuen <matt.mceuen@att.com>) for coordination
- powerds (DaeSeong Kim <daeseong.kim@sk.com>) for the *values.yaml* ordering spec<sup>Page 1998, 1</sup>
- portdirect (Pete Birley <pete@port.direct>) for the release management spec<sup>2</sup>
- randeep.jalli (Randeep Jalli <rj2083@att.com>) and renmak (Renis Makadia <renis.makadia@att.com>) for splitting up the Ceph chart
- rwellum (Rich Wellum <richwellum@gmail.com>) for coordination of Storyboard adoption
- Additional assignees TBD

#### Work Items

See above for the list of work items.

### 7.7.4 Testing

See above for gating requirements.

### 7.7.5 Documentation Impact

See above for documentation requirements.

### 7.7.6 References

## 7.8 OSH Logging, Monitoring, and Alerting

Blueprints: 1. osh-monitoring 2. osh-logging-framework

### 7.8.1 Problem Description

OpenStack-Helm currently lacks a centralized mechanism for providing insight into the performance of the OpenStack services and infrastructure components. The log formats of the different components in OpenStack-Helm vary, which makes identifying causes for issues difficult across services. To support operational readiness by default, OpenStack-Helm should include components for logging events in a common format, monitoring metrics at all levels, alerting and alarms for those metrics, and visualization tools for querying the logs and metrics in a single pane view.

---

<sup>2</sup> TODO - release management spec

## 7.8.2 Platform Requirements

### Logging Requirements

The requirements for a logging platform include:

1. All services in OpenStack-Helm log to stdout and stderr by default
2. Log collection daemon runs on each node to forward logs to storage
3. Proper directories mounted to retrieve logs from the node
4. Ability to apply custom metadata and uniform format to logs
5. Time-series database for logs collected
6. Backed by highly available storage
7. Configurable log rotation mechanism
8. Ability to perform custom queries against stored logs
9. Single pane visualization capabilities

### Monitoring Requirements

The requirements for a monitoring platform include:

1. Time-series database for collected metrics
2. Backed by highly available storage
3. Common method to configure all monitoring targets
4. Single pane visualization capabilities
5. Ability to perform custom queries against metrics collected
6. Alerting capabilities to notify operators when thresholds exceeded

## 7.8.3 Use Cases

### Logging Use Cases

Example uses for centralized logging include:

1. Record compute instance behavior across nodes and services
2. Record OpenStack service behavior and status
3. Find all backtraces for a tenant ids uuid
4. Identify issues with infrastructure components, such as RabbitMQ, mariadb, etc
5. Identify issues with Kubernetes components, such as: etcd, CNI, scheduler, etc
6. Organizational auditing needs
7. Visualize logged events to determine if an event is recurring or an outlier
8. Find all logged events that match a pattern (service, pod, behavior, etc)

## Monitoring Use Cases

Example OpenStack-Helm metrics requiring monitoring include:

1. Host utilization: memory usage, CPU usage, disk I/O, network I/O, etc
2. Kubernetes metrics: pod status, replica availability, job status, etc
3. Ceph metrics: total pool usage, latency, health, etc
4. OpenStack metrics: tenants, networks, flavors, floating IPs, quotas, etc
5. Proactive monitoring of stack traces across all deployed infrastructure

Examples of how these metrics can be used include:

1. Add or remove nodes depending on utilization
2. Trigger alerts when desired replicas fall below required number
3. Trigger alerts when services become unavailable or unresponsive
4. Identify etcd performance that could lead to cluster instability
5. Visualize performance to identify trends in traffic or utilization over time

### 7.8.4 Proposed Change

#### Logging

Fluentd, Elasticsearch, and Kibana meet OpenStack-Helms logging requirements for capture, storage and visualization of logged events. Fluentd runs as a daemonset on each node and mounts the `/var/lib/docker/containers` directory. The Docker container runtime engine directs events posted to stdout and stderr to this directory on the host. Fluentd should then declare the contents of that directory as an input stream, and use the `fluent-plugin-elasticsearch` plugin to apply the Logstash format to the logs. Fluentd will also use the `fluentd-plugin-kubernetes-metadata` plugin to write Kubernetes metadata to the log record. Fluentd will then forward the results to Elasticsearch, which indexes the logs in a `logstash-*` index by default. The resulting logs can then be queried directly through Elasticsearch, or they can be viewed via Kibana. Kibana offers a dashboard that can create custom views on logged events, and Kibana integrates well with Elasticsearch by default.

The proposal includes the following:

1. Helm chart for Fluentd
2. Helm chart for Elasticsearch
3. Helm chart for Kibana

All three charts must include sensible configuration values to make the logging platform usable by default. These include: proper input configurations for Fluentd, proper metadata and formats applied to the logs via Fluentd, sensible indexes created for Elasticsearch, and proper configuration values for Kibana to query the Elasticsearch indexes previously created.

#### Monitoring

Prometheus and Grafana meet OpenStack-Helms monitoring requirements. The Prometheus monitoring tool provides the ability to scrape targets for metrics over HTTP, and it stores these metrics in Prometheus time-series database. The monitoring targets can be discovered via static configuration in Prometheus or through service discovery. Prometheus includes a querying language that provides meaningful queries

against the metrics gathered and supports the creation of rules to measure these metrics against for alerting purposes. It also supports a wide range of Prometheus exporters for existing services, including Ceph and OpenStack. Grafana supports Prometheus as a data source, and provides the ability to view the metrics gathered by Prometheus in a single pane dashboard. Grafana can be bootstrapped with dashboards for each target scraped, or the dashboards can be added via Grafanas web interface directly. To meet OpenStack-Helms alerting needs, Alertmanager can be used to interface with Prometheus and send alerts based on Prometheus rule evaluations.

The proposal includes the following:

1. Helm chart for Prometheus
2. Helm chart for Alertmanager
3. Helm chart for Grafana
4. Helm charts for any appropriate Prometheus exporters

All charts must include sensible configuration values to make the monitoring platform usable by default. These include: static Prometheus configurations for the included exporters, static dashboards for Grafana mounted via configMaps and configurations for Alertmanager out of the box.

### **Security Impact**

All services running within the platform should be subject to the security practices applied to the other OpenStack-Helm charts.

### **Performance Impact**

To minimize the performance impacts, the following should be considered:

1. Sane defaults for log retention and rotation policies
2. Identify opportunities for improving Prometheus operation over time
3. Elasticsearch configured to prevent memory swapping to disk
4. Elasticsearch configured in a highly available manner with sane defaults

## **7.8.5 Implementation**

### **Assignee(s)**

#### **Primary assignees:**

srwilker (Steve Wilkerson) portdirect (Pete Birley) lr699s (Larry Rensing)

### **Work Items**

1. Fluentd chart
2. Elasticsearch chart
3. Kibana chart
4. Prometheus chart
5. Alertmanager chart
6. Grafana chart
7. Charts for exporters: kube-state-metrics, ceph-exporter, openstack-exporter?

All charts should follow design approaches applied to all other OpenStack-Helm charts, including the use of helm-toolkit.

All charts require valid and sensible default values to provide operational value out of the box.

## 7.8.6 Testing

Testing should include Helm tests for each of the included charts as well as an integration test in the gate.

## 7.8.7 Documentation Impact

Documentation should be included for each of the included charts as well as documentation detailing the requirements for a usable monitoring platform, preferably with sane default values out of the box.

# 7.9 Support OCI image registry with authentication turned on

Blueprint: [support-oci-image-registry-with-authentication-turned-on](#)

## 7.9.1 Problem Description

In the current openstack-helm, all charts provide an `images:` section in their `values.yaml` that have the container images references. By default, the container images are all downloaded from a registry hosted by Docker or Quay. However, the image references can be overridden by operators to download images from any OCI image registry. In the case that the OCI image registry has authentication turned on, kubelet would fail to download the images because the current Openstack-Helm does not provide a way to pass the OCI image registry credentials to kubernetes when pulling images.

## 7.9.2 Use case

Operators should be able to use Openstack-Helm to deploy containerized openstack services with a docker registry has authentication turned on.

## 7.9.3 Proposed Change

To be able to pull images from an OCI image registry which has the authentication turned on, kubernetes needs credentials. For each chart, a new `endpoints:` entry could be added in `values.yaml` to provide image credentials, a secret needs to be generated to hold the credentials and the `imagePullSecrets:` field should be added in each service account to specify which secret should be used to get the credentials from when pulling images by kubelet.

The detailed proposes change are described as following:

1. For each chart, add a new entry `oci_image_registry:` under `endpoints:` in `values.yaml`. The entry `oci_image_registry:` has the `auth:` section which provides the credentials for accessing registry images and an option `enabled:` to determine whether images authentication is required or not. The registry basic information would also be included for generating the registry URL by the endpoint lookup functions. Also add a new entry `oci_image_registry:` under `secrets:` to indicate the secret name. In order to create the secret that holds the provided credentials, add a new component `secret_registry` in `manifests:` section. For example:

```
secrets:
 oci_image_registry:
 nova: nova-oci-image-registry-key
```

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```

endpoints:
 ...
 oci_image_registry:
 name: oci-image-registry
 namespace: oci-image-registry
 auth:
 enabled: false
 nova:
 username: nova
 password: password
 hosts:
 default: localhost
 host_fqdn_override:
 default: null
 port:
 registry:
 default: 5000

manifests:
 secret_registry: true

```

The option `enabled:` under `auth:` and the manifest `secret_registry:` provide the ability for operator to determine whether they would like to have secrets generated and passed to kubernetes for pulling images.

The secret would not be created with the default option `enabled: false` and `secret_registry: true`. To enable secret creation, operator should override `enabled:` to `true`. The above example shows the default credentials, operator should override the `username:` and `password:` under `auth:` section to provide their own credentials.

Then, add manifest `secret-registry.yaml` in `templates/` to leverage the function that will be added in helm-toolkit to create the secret. For example:

```

{{- if and .Values.manifests.secret_registry .Values.endpoints.oci_image_
→registry.auth.enabled }}
{{ include "helm-toolkit.manifests.secret_registry" (dict "envAll" .
→"registryUser" .Chart.Name) }}
{{- end }}

```

2. Add a helm-toolkit function `helm-toolkit.manifests.secret_registry` to create a manifest for secret generation. For example:

```

{{- define "helm-toolkit.manifests.secret_registry" -}}
{{- $envAll := index . "envAll" }}
{{- $registryUser := index . "registryUser" }}
{{- $secretName := index $envAll.Values.secrets.oci_image_registry
→$registryUser }}
{{- $registryHost := tuple "oci_image_registry" "internal" $envAll | include
→"helm-toolkit.endpoints.endpoint_host_lookup" }}
{{- $registryPort := tuple "oci_image_registry" "internal" "registry" $envAll
→| include "helm-toolkit.endpoints.endpoint_port_lookup" }}

```

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```

{{- $imageCredentials := index $envAll.Values.endpoints.oci_image_registry.
 ↪auth $registryUser }}
{{- $dockerAuthToken := printf "%s:%s" $imageCredentials.username
 ↪$imageCredentials.password | b64enc }}
{{- $dockerAuth := printf "{\"auths\": {\"%s:%s\": {\"auth\": \"%s\"}}}"
 ↪$registryHost $registryPort $dockerAuthToken | b64enc }}

apiVersion: v1
kind: Secret
metadata:
 name: {{ $secretName }}
type: kubernetes.io/dockerconfigjson
data:
 .dockerconfigjson: {{ $dockerAuth }}
{{- end }}

```

3. Reference the created secret by adding the `imagePullSecrets:` field to `ServiceAccount` resource template<sup>2</sup> in `helm-toolkit/snippets/_kubernetes_pod_rbac_serviceaccount.tpl`. To handle it as optional, the field is wrapped in a conditional. For example,

```

apiVersion: v1
kind: ServiceAccount
...
{{- if $envAll.Values.endpoints.oci_image_registry.auth.enabled }}
imagePullSecrets:
 - name: {{ index $envAll.Values.secrets.oci_image_registry $envAll.Chart.
 ↪Name }}
{{- end }}

```

If `.Values.endpoints.oci_image_registry.auth.enabled` will be set to `true`, then any containers created with the current service account will have the `imagePullSecrets` automatically added to their spec and the secret will be passed to kubelet to be used for pulling images.

## Security Impact

The credentials for the registry could be exposed by running the `kubectl` command: `kubectl get secret <secret-name> output=jsonpath={.data..dockerconfigjson} | base64 decode`

Authentication should be enabled for normal users to access Kube API server via either `kubectl` command or kube REST API call.

## Performance Impact

No performance impact

<sup>2</sup> <https://kubernetes.io/docs/tasks/configure-pod-container/configure-service-account/#add-imagepullsecrets-to-a-service-account>

## Alternatives

Before using Openstack-Helm to deploy openstack services,

1. Put `.docker/config.json` in `docker/kubelet` root directory on all nodes
2. Pre-pulling images on all nodes

But above alternatives have limitations and security impact. i.e.require root access to configure on all nodes, all pods can read any configured private registries, all pods can use any images cached on a node<sup>1</sup>

## 7.9.4 Implementation

### Assignee(s)

Primary assignees:

- Angie Wang (angiewang)

### Work Items

1. Provide the credentials and add the manifest across all charts in OSH and OSH-infra
2. Update helm-toolkit to provide manifest to create secret for registry authentication
3. Update helm-toolkit serviceaccount template to pass the secret in a conditional

## 7.9.5 Testing

None

## 7.9.6 Documentation Impact

Documentation of how to enable the registry secret generation

## 7.9.7 References

## 7.10 Support linux bridge on neutron helm chart

Blueprint: [support-linux-bridge-on-neutron](#)

### 7.10.1 Problem Description

This specification will address enablement of LinuxBridge network virtualization for OpenStack Helm (OSH). LinuxBridge is second available networking technology in Neutrons reference architecture. The first one is OVS, that is already implemented in OSH.

The LinuxBridge (LB) is Neutrons L2 agent, using linux kernel bridges as network configuration for VMs. Both OVS and LB are part of Neutrons Modular Layer 2 (ML2) framework, allowing to simultaneously utilize the variety of layer 2 networking technologies.

Other services inside Neutron reference stack (L3/DHCP/metadata agents) are dependent on L2 connectivity agent. Thus, replacing OVS with LB would cause changes in mentioned services configuration.

---

<sup>1</sup> <https://kubernetes.io/docs/concepts/containers/images>

## 7.10.2 Proposed Change

LinuxBridge installation with neutron chart takes advantage of decomposable neutron chart in OSH. LinuxBridge agent will be added as daemonset, similarly how OVS is implemented. New value `daemonset_lb_agent` should be added in `neutron/values.yaml` in manifests section:

```
manifests:
 (...)
 daemonset_dhcp_agent: true
 daemonset_l3_agent: true
 daemonset_lb_agent: false
 daemonset_metadata_agent: true
 daemonset_ovs_agent: true
 daemonset_ovs_db: true
 daemonset_ovs_vswitchd: true
 (...)
```

By default, `daemonset_lb_agent` will be set to `false` to remain default behaviour of installing OVS as networking agent.

Installing OVS requires Kubernetes worker node labeling with tag `openvswitch=enabled`. To mark nodes where LB should be used, new tag will be introduced: `linuxbridge=enabled`.

LinuxBridge should support external bridge configuration, as well as auto bridge add mechanism implemented for OVS.

As mentioned before, configuration of L3/DHCP/metadata agent should be adjusted to use LinuxBridge, sample configuration override:

```
conf:
 neutron:
 default:
 agent:
 interface_driver: linuxbridge
 ml2_conf:
 ml2_type_flat:
 neutron:
 ml2:
 mechanism_drivers: linuxbridge, l2population
 dhcp_agent:
 default:
 neutron:
 base:
 agent:
 interface_driver: linuxbridge
 l3_agent:
 default:
 neutron:
 base:
 agent:
 interface_driver: linuxbridge
```

Having services configured, also the services pod dependencies should be updated to reflect the new kind on L2 agent:

```
dependencies:
 dhcp:
 pod:
 - requireSameNode: true
 labels:
 application: neutron
 component: neutron-lb-agent
 metadata:
 pod:
 - requireSameNode: true
 labels:
 application: neutron
 component: neutron-lb-agent
 l3:
 pod:
 - requireSameNode: true
 labels:
 application: neutron
 component: neutron-lb-agent
```

LinuxBridge should be also enabled in manifests section:

```
manifests:
 daemonset_lb_agent: true
 daemonset_ovs_agent: false
 daemonset_ovs_db: false
 daemonset_ovs_vswitchd: false
```

In above example OVS and Neutron OVS agent are disabled.

Another place where Neutron L2 agent should be pointed is dependencies list in other OpenStack projects. Currently, nova-compute has dependency for ovs-agent in nova/values.yaml, it should be changed to:

```
dependencies:
 compute:
 daemonset:
 - lb-agent
```

## Security Impact

No security impact.

## Performance Impact

VM networking performance would be dependent on linux bridge implementation.

## Alternatives

OVS is an alternative in Neutron reference architecture. It is already in tree.

### 7.10.3 Implementation

#### Assignee(s)

Primary assignees:

- korzen (Artur Korzeniewski)

#### Work Items

1. Add LinuxBridge daemonset
2. Add gate job testing VM network connectivity
3. Add documentation on how to use LinuxBridge

### 7.10.4 Testing

Gate job testing VM network connectivity.

### 7.10.5 Documentation Impact

Documentation on how to use LinuxBridge with Neutron chart.

### 7.10.6 References

## 7.11 Deploying multiple Ceph clusters

This guide shows how to setup multiple Ceph clusters. One Ceph cluster will be used for k8s RBD storage and while other Ceph cluster will be for tenant facing storage backend for Cinder and Glance.

### 7.11.1 Ceph Clusters:

#### Ceph for RBD:

This Ceph cluster will be used for k8s RBD storage (pvc). This can be used by entire Kubernetes cluster.

- k8s namespace: ceph
- mon endpoint port: 6789
- mgr endpoint port: 7000
- metric port: 9283
- storage classes: general (rbd based for pvc)
- no ceph-mds and ceph-rgw

## Ceph for Tenant:

This Ceph cluster will be used by Cinder and Glance as storage backend.

- k8s namespace: tenant-ceph
- mon endpoint port: 6790
- mgr endpoint port: 7001
- metric port: 9284
- no storage classes
- no ceph-mds

### 7.11.2 Env Setup:

6 VM based hosts (node1, node2, node3, node4, node5, node6)

#### k8s node labels:

Ceph for RBD related labels:

Labels assigned to nodes: node1, node2, node3:

openstack-control-plane=enabled, ceph-mon=enabled, ceph-mgr=enabled, ceph-rgw=enabled, ceph-mds=enabled, ceph-osd=enabled

Ceph for Tenant related labels:

Labels assigned to nodes: node1, node2, node3:

tenant-ceph-control-plane=enabled, ceph-mon-tenant=enabled, ceph-mgr-tenant=enabled, ceph-rgw-tenant=enabled

Labels assigned to nodes: node4, node5, node6:

openstack-data-plane=enabled, openstack-compute-node=enabled, ceph-osd-tenant=enabled, openstack-data-plane=enabled

k8s node list with labels After applying above labels, node labels should look like following.

```
ubuntu@node1:~$ kubectl get nodes --show-labels=true
NAME STATUS ROLES AGE VERSION LABELS
node1 Ready <none> 9m v1.10.6 beta.kubernetes.io/
↳arch=amd64,beta.kubernetes.io/os=linux,ceph-mds=enabled,ceph-mgr-
↳tenant=enabled,ceph-mgr=enabled,ceph-mon-tenant=enabled,ceph-mon=enabled,
↳ceph-osd=enabled,ceph-rgw-tenant=enabled,ceph-rgw=enabled,kubernetes.io/
↳hostname=node1,linuxbridge=enabled,openstack-control-plane=enabled,
↳openstack-helm-node-class=primary,openvswitch=enabled,tenant-ceph-control-
↳plane=enabled
node2 Ready <none> 6m v1.10.6 beta.kubernetes.io/
↳arch=amd64,beta.kubernetes.io/os=linux,ceph-mds=enabled,ceph-mgr-
↳tenant=enabled,ceph-mgr=enabled,ceph-mon-tenant=enabled,ceph-mon=enabled,
↳ceph-osd=enabled,ceph-rgw-tenant=enabled,ceph-rgw=enabled,kubernetes.io/
↳hostname=node2,linuxbridge=enabled,openstack-control-plane=enabled,
↳openstack-helm-node-class=general,openvswitch=enabled,tenant-ceph-control-
↳plane=enabled
```

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```

node3 Ready <none> 6m v1.10.6 beta.kubernetes.io/
↪arch=amd64,beta.kubernetes.io/os=linux,ceph-mds=enabled,ceph-mgr-
↪tenant=enabled,ceph-mgr=enabled,ceph-mon-tenant=enabled,ceph-mon=enabled,
↪ceph-osd=enabled,ceph-rgw-tenant=enabled,ceph-rgw=enabled,kubernetes.io/
↪hostname=node3,linuxbridge=enabled,openstack-control-plane=enabled,
↪openstack-helm-node-class=general,openvswitch=enabled,tenant-ceph-control-
↪plane=enabled
node4 Ready <none> 7m v1.10.6 beta.kubernetes.io/
↪arch=amd64,beta.kubernetes.io/os=linux,ceph-osd-tenant=enabled,kubernetes.
↪io/hostname=node4,linuxbridge=enabled,openstack-compute-node=enabled,
↪openstack-data-plane=enabled,openstack-helm-node-class=general,
↪openvswitch=enabled
node5 Ready <none> 6m v1.10.6 beta.kubernetes.io/
↪arch=amd64,beta.kubernetes.io/os=linux,ceph-osd-tenant=enabled,kubernetes.
↪io/hostname=node5,linuxbridge=enabled,openstack-compute-node=enabled,
↪openstack-data-plane=enabled,openstack-helm-node-class=general,
↪openvswitch=enabled
node6 Ready <none> 6m v1.10.6 beta.kubernetes.io/
↪arch=amd64,beta.kubernetes.io/os=linux,ceph-osd-tenant=enabled,kubernetes.
↪io/hostname=node6,linuxbridge=enabled,openstack-compute-node=enabled,
↪openstack-data-plane=enabled,openstack-helm-node-class=general,
↪openvswitch=enabled

```

### 7.11.3 Test Steps:

#### 1) Prepare scripts:

OpenStack-Helm multinode guide includes scripts which are used to specify overrides and deploy charts.

Duplicate scripts as shows below for later use.

```

cd tools/deployment/multinode/
cp 030-ceph.sh 030-tenant-ceph.sh
cp 040-ceph-ns-activate.sh 040-tenant-ceph-ns-activate.sh
cp 090-ceph-radosgateway.sh 090-tenant-ceph-radosgateway.sh

```

#### 2) Deploy ingress chart:

Script to update and execute: 020-ingress.sh

Update script to include namespace `tenant-ceph` as shown below.

```

for NAMESPACE in openstack ceph tenant-ceph; do

```

Execute script.

#### 3) Deploy Ceph for RBD:

Script to update and execute: 030-ceph.sh

Update script with following overrides. Note: The original RBD provisioner is now deprecated. The CSI RBD provisioner is selected here. If you prefer the original non-CSI RBD provisioner, then set `rbid_provisioner` to `true` instead.



```

deployment:
 storage_secrets: true
 ceph: true
 rbd_provisioner: false
 csi_rbd_provisioner: true
 cephfs_provisioner: false
 client_secrets: false
endpoints:
 ceph_mon:
 namespace: ceph
 port:
 mon:
 default: 6789
 ceph_mgr:
 namespace: ceph
 port:
 mgr:
 default: 7000
 metrics:
 default: 9283
manifests:
 deployment_mds: false
bootstrap:
 enabled: true
conf:
 pool:
 target:
 osd: 3
storageclass:
 rbd:
 ceph_configmap_name: ceph-etc
 cephfs:
 provision_storage_class: false
ceph_mgr_modules_config:
 prometheus:
 server_port: 9283
monitoring:
 prometheus:
 enabled: true
 ceph_mgr:
 port: 9283

```

**Note**

cephfs\_provisioner: false and provision\_storage\_class: false are set to false to disable cephfs. deployment\_mds: false is set to disable ceph-mds

Execute script.

#### 4) Deploy MariaDB, RabbitMQ, Memcached and Keystone:

Use default overrides and execute following scripts as per OSH guide steps:

- 040-ceph-ns-activate.sh
- 050-mariadb.sh
- 060-rabbitmq.sh
- 070-memcached.sh
- 080-keystone.sh

#### Result from Steps 2, 3, 4:

Ceph Pods

```
ubuntu@node1:~$ kubectl get pods -n ceph -o wide
NAME READY STATUS RESTARTS AGE
↔ IP NODE
ceph-bootstrap-g45qc 0/1 Completed 0 28m
↔ 192.168.5.16 node3
ceph-mds-keyring-generator-gsw4m 0/1 Completed 0 28m
↔ 192.168.2.11 node2
ceph-mgr-5746dd89db-mmrg4 1/1 Running 0 23m
↔ 10.0.0.12 node2
ceph-mgr-5746dd89db-q251t 1/1 Running 0 23m
↔ 10.0.0.9 node3
ceph-mgr-keyring-generator-t4s81 0/1 Completed 0 28m
↔ 192.168.2.9 node2
ceph-mon-6n4hk 1/1 Running 0 28m
↔ 10.0.0.9 node3
ceph-mon-b2d9w 1/1 Running 0 28m
↔ 10.0.0.12 node2
ceph-mon-check-d85994946-2dcpg 1/1 Running 0 28m
↔ 192.168.5.17 node3
ceph-mon-keyring-generator-rmvfz 0/1 Completed 0 28m
↔ 192.168.2.10 node2
ceph-mon-svkd1 1/1 Running 0 28m
↔ 10.0.0.16 node1
ceph-osd-default-83945928-2mhrj 1/1 Running 0 25m
↔ 10.0.0.9 node3
ceph-osd-default-83945928-gqbd9 1/1 Running 0 25m
↔ 10.0.0.16 node1
ceph-osd-default-83945928-krrl8 1/1 Running 0 25m
↔ 10.0.0.12 node2
ceph-osd-keyring-generator-zg8s5 0/1 Completed 0 28m
↔ 192.168.0.195 node1
ceph-rbd-pool-92nbv 0/1 Completed 0 23m
↔ 192.168.5.18 node3
ceph-rbd-provisioner-599895579c-jl6qk 1/1 Running 0 21m
↔ 192.168.2.15 node2
ceph-rbd-provisioner-599895579c-n4hbk 1/1 Running 0 21m
```

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|   |              |       |                                      |     |           |   |     |   |
|---|--------------|-------|--------------------------------------|-----|-----------|---|-----|---|
| ↪ | 192.168.5.19 | node3 | ceph-rgw-keyring-generator-2wv4j     | 0/1 | Completed | 0 | 28m | ⌵ |
| ↪ | 192.168.5.15 | node3 | ceph-storage-keys-generator-8vzrx    | 0/1 | Completed | 0 | 28m | ⌵ |
| ↪ | 192.168.2.12 | node2 | ingress-796d8cf8d6-9khkm             | 1/1 | Running   | 0 | 28m | ⌵ |
| ↪ | 192.168.2.6  | node2 | ingress-796d8cf8d6-nznvc             | 1/1 | Running   | 0 | 28m | ⌵ |
| ↪ | 192.168.5.12 | node3 | ingress-error-pages-54454dc79b-bgc5m | 1/1 | Running   | 0 | 28m | ⌵ |
| ↪ | 192.168.2.5  | node2 | ingress-error-pages-54454dc79b-hwnv4 | 1/1 | Running   | 0 | 28m | ⌵ |
| ↪ | 192.168.5.7  | node3 |                                      |     |           |   |     |   |

### Openstack Pods:

```
ubuntu@node1:~$ kubectl get pods -n openstack -o wide
```

| NAME                                              | READY | STATUS        |       |
|---------------------------------------------------|-------|---------------|-------|
| ↪RESTARTS                                         | AGE   | IP            | NODE  |
| ceph-openstack-config-ceph-ns-key-generator-mcxrs | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 11m   | 192.168.2.16  | node2 |
| ingress-7b4bc84cdd-7wslz                          | 1/1   | Running       | 0 ⌵   |
| ↪                                                 | 30m   | 192.168.5.5   | node3 |
| ingress-7b4bc84cdd-z6t2z                          | 1/1   | Running       | 0 ⌵   |
| ↪                                                 | 30m   | 192.168.2.4   | node2 |
| ingress-error-pages-586c7f86d6-7m58l              | 1/1   | Running       | 0 ⌵   |
| ↪                                                 | 30m   | 192.168.5.6   | node3 |
| ingress-error-pages-586c7f86d6-n9tzv              | 1/1   | Running       | 0 ⌵   |
| ↪                                                 | 30m   | 192.168.2.3   | node2 |
| keystone-api-7974676d5d-5k27d                     | 1/1   | Running       | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.5.24  | node3 |
| keystone-api-7974676d5d-cd9kv                     | 1/1   | Running       | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.2.21  | node2 |
| keystone-bootstrap-twfrj                          | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.0.197 | node1 |
| keystone-credential-setup-txf5p                   | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.5.25  | node3 |
| keystone-db-init-tjxgm                            | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.2.20  | node2 |
| keystone-db-sync-zl9t4                            | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.2.22  | node2 |
| keystone-domain-manage-thwdm                      | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.0.198 | node1 |
| keystone-fernet-setup-qm424                       | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.5.26  | node3 |
| keystone-rabbit-init-6699r                        | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 6m    | 192.168.2.23  | node2 |
| keystone-test                                     | 0/1   | Completed     | 0 ⌵   |
| ↪                                                 | 4m    | 192.168.3.3   | node4 |
| mariadb-ingress-84894687fd-wfc9b                  | 1/1   | Running       | 0 ⌵   |

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|   |                                              |               |         |   |   |  |  |
|---|----------------------------------------------|---------------|---------|---|---|--|--|
| ↔ | 11m                                          | 192.168.2.17  | node2   |   |   |  |  |
|   | mariadb-ingress-error-pages-78fb865f84-bg8sg | 1/1           | Running | 0 | ↳ |  |  |
| ↔ | 11m                                          | 192.168.5.20  | node3   |   |   |  |  |
|   | mariadb-server-0                             | 1/1           | Running | 0 | ↳ |  |  |
| ↔ | 11m                                          | 192.168.5.22  | node3   |   |   |  |  |
|   | memcached-memcached-5db74ddfd5-m5gw2         | 1/1           | Running | 0 | ↳ |  |  |
| ↔ | 7m                                           | 192.168.2.19  | node2   |   |   |  |  |
|   | rabbitmq-rabbitmq-0                          | 1/1           | Running | 0 | ↳ |  |  |
| ↔ | 8m                                           | 192.168.2.18  | node2   |   |   |  |  |
|   | rabbitmq-rabbitmq-1                          | 1/1           | Running | 0 | ↳ |  |  |
| ↔ | 8m                                           | 192.168.5.23  | node3   |   |   |  |  |
|   | rabbitmq-rabbitmq-2                          | 1/1           | Running | 0 | ↳ |  |  |
| ↔ | 8m                                           | 192.168.0.196 | node1   |   |   |  |  |

### Ceph Status

```
ubuntu@node1:~$ kubectl exec -n ceph ceph-mon-b2d9w -- ceph -s
cluster:
 id: 3e53e3b7-e5d9-4bab-9701-134687f4954e
 health: HEALTH_OK

services:
 mon: 3 daemons, quorum node3,node2,node1
 mgr: node3(active), standbys: node2
 osd: 3 osds: 3 up, 3 in

data:
 pools: 18 pools, 93 pgs
 objects: 127 objects, 218 MB
 usage: 46820 MB used, 186 GB / 232 GB avail
 pgs: 93 active+clean
```

### Ceph ConfigMaps

```
ubuntu@node1:~$ kubectl get cm -n ceph
NAME DATA AGE
ceph-client-bin 7 25m
ceph-client-etc 1 25m
ceph-etc 1 23m
ceph-mon-bin 10 29m
ceph-mon-etc 1 29m
ceph-osd-bin 7 27m
ceph-osd-default 1 27m
ceph-osd-etc 1 27m
ceph-provisioners-ceph-provisioners-bin 4 23m
ceph-templates 6 29m
ingress-bin 2 30m
ingress-ceph-nginx 0 30m
ingress-conf 3 30m
ingress-services-tcp 0 30m
```

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|                      |   |     |
|----------------------|---|-----|
| ingress-services-udp | 0 | 30m |
|----------------------|---|-----|

ceph-mon-etc (ceph.conf)

```
ubuntu@node1:~$ kubectl get cm -n ceph ceph-mon-etc -o yaml
```

```
apiVersion: v1
data:
 ceph.conf: |
 [global]
 cephx = true
 cephx_cluster_require_signatures = true
 cephx_require_signatures = false
 cephx_service_require_signatures = false
 fsid = 3e53e3b7-e5d9-4bab-9701-134687f4954e
 mon_addr = :6789
 mon_host = ceph-mon-discovery.ceph.svc.cluster.local:6789
 [osd]
 cluster_network = 10.0.0.0/24
 ms_bind_port_max = 7100
 ms_bind_port_min = 6800
 osd_max_object_name_len = 256
 osd_mkfs_options_xfs = -f -i size=2048
 osd_mkfs_type = xfs
 public_network = 10.0.0.0/24
kind: ConfigMap
metadata:
 creationTimestamp: 2018-08-27T04:55:32Z
 name: ceph-mon-etc
 namespace: ceph
 resourceVersion: "3218"
 selfLink: /api/v1/namespaces/ceph/configmaps/ceph-mon-etc
 uid: 6d9fdcba-a9b5-11e8-bb1d-fa163ec12213
```

**Note**  
 Note that mon\_addr and mon\_host have default mon port 6789.

### k8s storageclass

```
ubuntu@node1:~$ kubectl get storageclasses
NAME PROVISIONER AGE
general ceph.com/rbd 14m
```

### Ceph services

```
ubuntu@node1:~$ kubectl get svc -n ceph
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S)
↔
```

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|                     |           |                |        |             |   |
|---------------------|-----------|----------------|--------|-------------|---|
| ceph-mgr            | ClusterIP | 10.111.185.73  | <none> | 7000/TCP,   |   |
| ↪ 9283/TCP 27m      |           |                |        |             |   |
| ceph-mon            | ClusterIP | None           | <none> | 6789/TCP    | ↪ |
| ↪ 31m               |           |                |        |             |   |
| ceph-mon-discovery  | ClusterIP | None           | <none> | 6789/TCP    | ↪ |
| ↪ 31m               |           |                |        |             |   |
| ingress             | ClusterIP | 10.100.23.32   | <none> | 80/TCP,443/ |   |
| ↪ TCP 32m           |           |                |        |             |   |
| ingress-error-pages | ClusterIP | None           | <none> | 80/TCP      | ↪ |
| ↪ 32m               |           |                |        |             |   |
| ingress-exporter    | ClusterIP | 10.109.196.155 | <none> | 10254/TCP   | ↪ |
| ↪ 32m               |           |                |        |             |   |

### Ceph endpoints

```
ubuntu@node1:~$ kubectl get endpoints -n ceph
NAME ENDPOINTS
↪ AGE
ceph-mgr 10.0.0.12:9283,10.0.0.9:9283,10.0.0.12:7000 + 1 more... ↪
↪ 27m
ceph-mon 10.0.0.12:6789,10.0.0.16:6789,10.0.0.9:6789 ↪
↪ 31m
ceph-mon-discovery 10.0.0.12:6789,10.0.0.16:6789,10.0.0.9:6789 ↪
↪ 31m
ingress 192.168.2.6:80,192.168.5.12:80,192.168.2.6:443 + 1 more. ↪
↪... 32m
ingress-error-pages 192.168.2.5:8080,192.168.5.7:8080 ↪
↪ 32m
ingress-exporter 192.168.2.6:10254,192.168.5.12:10254 ↪
↪ 32m
```

### netstat ceph mon port

```
ubuntu@node1:~$ netstat -ntlp | grep 6789
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
tcp 0 0 10.0.0.16:6789 0.0.0.0:* LISTEN ↪
↪ -

ubuntu@node1:~$ netstat -ntlp | grep 6790
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
```

### Ceph secrets

```
ubuntu@node1:~$ kubectl get secrets -n ceph
NAME TYPE
↪ DATA AGE
ceph-bootstrap-mds-keyring Opaque ↪
↪ 1 34m
```

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|                                                    |   |     |                        |   |
|----------------------------------------------------|---|-----|------------------------|---|
| ceph-bootstrap-mgr-keyring                         |   |     | Opaque                 | ↳ |
| ↳                                                  | 1 | 34m |                        |   |
| ceph-bootstrap-osd-keyring                         |   |     | Opaque                 | ↳ |
| ↳                                                  | 1 | 34m |                        |   |
| ceph-bootstrap-rgw-keyring                         |   |     | Opaque                 | ↳ |
| ↳                                                  | 1 | 34m |                        |   |
| ceph-bootstrap-token-w2sqp                         |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-client-admin-keyring                          |   |     | Opaque                 | ↳ |
| ↳                                                  | 1 | 34m |                        |   |
| ceph-mds-keyring-generator-token-s9kst             |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-mgr-keyring-generator-token-h5sw6             |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-mgr-token-hr88m                               |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 30m |                        |   |
| ceph-mon-check-token-bfvjk                         |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-mon-keyring                                   |   |     | Opaque                 | ↳ |
| ↳                                                  | 1 | 34m |                        |   |
| ceph-mon-keyring-generator-token-5gs5q             |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-mon-token-zsd6w                               |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-osd-keyring-generator-token-h97wb             |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-osd-token-4wfm5                               |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 32m |                        |   |
| ceph-provisioners-ceph-rbd-provisioner-token-f92tw |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 28m |                        |   |
| ceph-rbd-pool-token-p2nxt                          |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 30m |                        |   |
| ceph-rgw-keyring-generator-token-wmfx6             |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| ceph-storage-keys-generator-token-dq5ts            |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 34m |                        |   |
| default-token-j8h48                                |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 35m |                        |   |
| ingress-ceph-ingress-token-68rws                   |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 35m |                        |   |
| ingress-error-pages-token-mpvhm                    |   |     | kubernetes.io/service- |   |
| ↳account-token                                     | 3 | 35m |                        |   |
| pvc-ceph-conf-combined-storageclass                |   |     | kubernetes.io/rbd      | ↳ |
| ↳                                                  | 1 | 34m |                        |   |

### Openstack secrets

```
ubuntu@node1:~$ kubectl get secrets -n openstack
```

| NAME | DATA | AGE | TYPE | ↳ |
|------|------|-----|------|---|
| ↳    |      |     |      |   |

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|                                                         |   |                |
|---------------------------------------------------------|---|----------------|
| ceph-openstack-config-ceph-ns-key-cleaner-token-jj7n6   |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 17m            |
| ceph-openstack-config-ceph-ns-key-generator-token-5sqfw |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 17m            |
| default-token-r5knr                                     |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 35m            |
| ingress-error-pages-token-xxjxt                         |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 35m            |
| ingress-openstack-ingress-token-hrvv8                   |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 35m            |
| keystone-api-token-xwczg                                |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-bootstrap-token-dhnb6                          |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-credential-keys                                |   | Opaque         |
| ↪                                                       | 2 | 12m            |
| keystone-credential-rotate-token-68lnk                  |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-credential-setup-token-b2smc                   |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-db-admin                                       |   | Opaque         |
| ↪                                                       | 1 | 12m            |
| keystone-db-init-token-brzkj                            |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-db-sync-token-xzqj9                            |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-db-user                                        |   | Opaque         |
| ↪                                                       | 1 | 12m            |
| keystone-domain-manage-token-48gn5                      |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-etc                                            |   | Opaque         |
| ↪                                                       | 9 | 12m            |
| keystone-fernet-keys                                    |   | Opaque         |
| ↪                                                       | 2 | 12m            |
| keystone-fernet-rotate-token-djtzb                      |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-fernet-setup-token-n9st2                       |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-keystone-admin                                 |   | Opaque         |
| ↪                                                       | 8 | 12m            |
| keystone-keystone-test                                  |   | Opaque         |
| ↪                                                       | 8 | 12m            |
| keystone-rabbit-init-token-pt5b2                        |   | kubernetes.io/ |
| ↪service-account-token                                  | 3 | 12m            |
| keystone-rabbitmq-admin                                 |   | Opaque         |
| ↪                                                       | 1 | 12m            |
| keystone-rabbitmq-user                                  |   | Opaque         |
| ↪                                                       | 1 | 12m            |
| keystone-test-token-z8mb6                               |   | kubernetes.io/ |

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|                                         |   |     |                   |   |
|-----------------------------------------|---|-----|-------------------|---|
| ↪service-account-token                  | 3 | 12m |                   |   |
| mariadb-db-root-password                |   |     | Opaque            | ↪ |
| ↪                                       | 1 | 17m |                   |   |
| mariadb-ingress-error-pages-token-cnrqp |   |     | kubernetes.io/    |   |
| ↪service-account-token                  | 3 | 17m |                   |   |
| mariadb-ingress-token-gfrg4             |   |     | kubernetes.io/    |   |
| ↪service-account-token                  | 3 | 17m |                   |   |
| mariadb-secrets                         |   |     | Opaque            | ↪ |
| ↪                                       | 1 | 17m |                   |   |
| mariadb-token-pr5lp                     |   |     | kubernetes.io/    |   |
| ↪service-account-token                  | 3 | 17m |                   |   |
| memcached-memcached-token-gq96p         |   |     | kubernetes.io/    |   |
| ↪service-account-token                  | 3 | 13m |                   |   |
| pvc-ceph-client-key                     |   |     | kubernetes.io/rbd | ↪ |
| ↪                                       | 1 | 17m |                   |   |
| rabbitmq-rabbitmq-token-5bj85           |   |     | kubernetes.io/    |   |
| ↪service-account-token                  | 3 | 14m |                   |   |
| rabbitmq-test-token-w4clj               |   |     | kubernetes.io/    |   |
| ↪service-account-token                  | 3 | 14m |                   |   |

### Openstack PV list

```
ubuntu@node1:~$ kubectl get pv -n openstack
```

| NAME                                     | CAPACITY | ACCESS MODES                                | RECLAIM   |
|------------------------------------------|----------|---------------------------------------------|-----------|
| ↪POLICY                                  |          |                                             | ↪         |
| ↪STATUS                                  |          |                                             |           |
| ↪CLAIM                                   |          |                                             |           |
| ↪STORAGECLASS                            |          |                                             |           |
| ↪REASON                                  |          |                                             |           |
| ↪AGE                                     |          |                                             |           |
| pvc-348f4c52-a9b8-11e8-bb1d-fa163ec12213 | 256Mi    | RWO                                         | Delete ↪  |
| ↪                                        | Bound    | openstack/rabbitmq-data-rabbitmq-rabbitmq-0 | general ↪ |
| ↪                                        | 15m      |                                             |           |
| pvc-4418c745-a9b8-11e8-bb1d-fa163ec12213 | 256Mi    | RWO                                         | Delete ↪  |
| ↪                                        | Bound    | openstack/rabbitmq-data-rabbitmq-rabbitmq-1 | general ↪ |
| ↪                                        | 14m      |                                             |           |
| pvc-524d4213-a9b8-11e8-bb1d-fa163ec12213 | 256Mi    | RWO                                         | Delete ↪  |
| ↪                                        | Bound    | openstack/rabbitmq-data-rabbitmq-rabbitmq-2 | general ↪ |
| ↪                                        | 14m      |                                             |           |
| pvc-da9c9dd2-a9b7-11e8-bb1d-fa163ec12213 | 5Gi      | RWO                                         | Delete ↪  |
| ↪                                        | Bound    | openstack/mysql-data-mariadb-server-0       | general ↪ |
| ↪                                        | 17m      |                                             |           |

### Openstack endpoints

```
ubuntu@node1:~$ openstack endpoint list
```

| ID         | Region | Service Name | Service Type |
|------------|--------|--------------|--------------|
| ↪Enabled   |        |              | ↪            |
| ↪Interface |        |              |              |
| ↪URL       |        |              |              |

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```

↪-----+
| 480cc7360752498e822cbbc7211d213a | RegionOne | keystone | identity |
↪| True | internal | http://keystone-api.openstack.svc.cluster.
↪local:5000/v3 |
| 8dfe4e4725b84e51a5eda564dee0960c | RegionOne | keystone | identity |
↪| True | public | http://keystone.openstack.svc.cluster.local:80/v3
↪
↪|
| 9b3526e36307400b9accfc7cc834cf99 | RegionOne | keystone | identity |
↪| True | admin | http://keystone.openstack.svc.cluster.local:80/v3
↪|
+-----+-----+-----+-----+
↪+-----+-----+-----+-----+
↪-----+

```

### Openstack services

```

ubuntu@node1:~$ openstack service list
+-----+-----+-----+-----+
| ID | Name | Type |
+-----+-----+-----+-----+
| 67cc6b945e934246b25d31a9374a64af | keystone | identity |
+-----+-----+-----+-----+

```

### 5) Deploy Ceph for Tenant:

Script to update and execute: 030-tenant-ceph.sh

Make following changes to script: 1 Replace occurrence of ceph-fs-uuid.txt with tenant-ceph-fs-uuid.txt

2 Replace occurrence of ceph.yaml with tenant-ceph.yaml

3 For tenant Ceph, no need to deploy ceph-provisioners. Update script to for CHART in ceph-mon ceph-osd ceph-client; do

Update scripts override section with following:

```

endpoints:
 identity:
 namespace: openstack
 object_store:
 namespace: openstack
 ceph_mon:
 namespace: tenant-ceph
 port:
 mon:
 default: 6790
 ceph_mgr:
 namespace: tenant-ceph
 port:
 mgr:
 default: 7001

```

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```
 metrics:
 default: 9284
network:
 public: ${CEPH_PUBLIC_NETWORK}
 cluster: ${CEPH_CLUSTER_NETWORK}
deployment:
 storage_secrets: true
 ceph: true
 rbd_provisioner: false
 csi_rbd_provisioner: false
 cephfs_provisioner: false
 client_secrets: false
labels:
 mon:
 node_selector_key: ceph-mon-tenant
 osd:
 node_selector_key: ceph-osd-tenant
 rgw:
 node_selector_key: ceph-rgw-tenant
 mgr:
 node_selector_key: ceph-mgr-tenant
 job:
 node_selector_key: tenant-ceph-control-plane
storageclass:
 rbd:
 ceph_configmap_name: tenant-ceph-etc
 provision_storage_class: false
 name: tenant-rbd
 admin_secret_name: pvc-tenant-ceph-conf-combined-storageclass
 admin_secret_namespace: tenant-ceph
 user_secret_name: pvc-tenant-ceph-client-key
 cephfs:
 provision_storage_class: false
 name: cephfs
 user_secret_name: pvc-tenant-ceph-cephfs-client-key
 admin_secret_name: pvc-tenant-ceph-conf-combined-storageclass
 admin_secret_namespace: tenant-ceph
bootstrap:
 enabled: true
manifests:
 deployment_mds: false
ceph_mgr_modules_config:
 prometheus:
 server_port: 9284
monitoring:
 prometheus:
 enabled: true
 ceph_mgr:
 port: 9284
```

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```

conf:
 ceph:
 global:
 fsid: ${CEPH_FS_ID}
 rgw_ks:
 enabled: true
 pool:
 crush:
 tunables: ${CRUSH_TUNABLES}
 target:
 osd: 3
 pg_per_osd: 100
 storage:
 osd:
 - data:
 type: directory
 location: /var/lib/openstack-helm/tenant-ceph/osd/osd-one
 journal:
 type: directory
 location: /var/lib/openstack-helm/tenant-ceph/osd/journal-one
 mon:
 directory: /var/lib/openstack-helm/tenant-ceph/mon

```

**Note**

- Port numbers for Ceph\_Mon and Ceph\_Mgr are different from default.
- We are disabling rbd and cephfs provisioners.
- Labels for mon, osd, rgw, mgr and job have been updated for tenant Ceph.
- Under storageclass section, values for following have been updated: ceph\_configmap\_name, admin\_secret\_name, admin\_secret\_namespace, user\_secret\_name
- Under storage: mon directory have been updated.

For Tenant Ceph, we will not be provisioning storage classes therefor, update script to not install ceph-provisioners chart as following.

```
for CHART in ceph-mon ceph-osd ceph-client; do
```

Execute script.

**6) Enable Openstack namespace to use Tenant Ceph:**

Script to update and execute: 040-tenant-ceph-ns-activate.sh

Update script as following:

```

...
tee /tmp/tenant-ceph-openstack-config.yaml <<EOF
endpoints:

```

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```
identity:
 namespace: openstack
object_store:
 namespace: openstack
ceph_mon:
 namespace: tenant-ceph
 port:
 mon:
 default: 6790
network:
 public: ${CEPH_PUBLIC_NETWORK}
 cluster: ${CEPH_CLUSTER_NETWORK}
deployment:
 storage_secrets: false
 ceph: false
 rbd_provisioner: false
 csi_rbd_provisioner: false
 cephfs_provisioner: false
 client_secrets: true
bootstrap:
 enabled: false
conf:
 rgw_ks:
 enabled: true
storageclass:
 rbd:
 ceph_configmap_name: tenant-ceph-etc
 provision_storage_class: false
 name: tenant-rbd
 admin_secret_name: pvc-tenant-ceph-conf-combined-storageclass
 admin_secret_namespace: tenant-ceph
 user_secret_name: pvc-tenant-ceph-client-key
 cephfs:
 provision_storage_class: false
 name: cephfs
 admin_secret_name: pvc-tenant-ceph-conf-combined-storageclass
 admin_secret_namespace: tenant-ceph
 user_secret_name: pvc-tenant-ceph-cephfs-client-key
EOF
helm upgrade --install tenant-ceph-openstack-config ./ceph-provisioners \
 --namespace=openstack \
 --values=/tmp/tenant-ceph-openstack-config.yaml \
 ${OSH_EXTRA_HELM_ARGS} \
 ${OSH_EXTRA_HELM_ARGS_CEPH_NS_ACTIVATE}

#NOTE: Wait for deploy
./tools/deployment/common/wait-for-pods.sh openstack

#NOTE: Validate Deployment info
helm status tenant-ceph-openstack-config
```

Execute script.

## 7) Tenant Ceph: Deploy Rados Gateway:

Script to update: `090-tenant-ceph-radosgateway.sh`

Update script with following overrides:

```
tee /tmp/tenant-radosgw-openstack.yaml <<EOF
endpoints:
 identity:
 namespace: openstack
 object_store:
 namespace: openstack
 ceph_mon:
 namespace: tenant-ceph
 port:
 mon:
 default: 6790
network:
 public: ${CEPH_PUBLIC_NETWORK}
 cluster: ${CEPH_CLUSTER_NETWORK}
deployment:
 storage_secrets: false
 ceph: true
 rbd_provisioner: false
 csi_rbd_provisioner: false
 cephfs_provisioner: false
 client_secrets: false
bootstrap:
 enabled: false
conf:
 rgw_ks:
 enabled: true
secrets:
 keyrings:
 admin: pvc-tenant-ceph-client-key
 rgw: os-ceph-bootstrap-rgw-keyring
 identity:
 admin: ceph-keystone-admin
 swift: ceph-keystone-user
 user_rgw: ceph-keystone-user-rgw
ceph_client:
 configmap: tenant-ceph-etc
EOF
helm upgrade --install tenant-radosgw-openstack ./ceph-rgw \
 --namespace=openstack \
 --values=/tmp/tenant-radosgw-openstack.yaml \
 ${OSH_EXTRA_HELM_ARGS} \
 ${OSH_EXTRA_HELM_ARGS_HEAT}

#NOTE: Wait for deploy
```

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```
./tools/deployment/common/wait-for-pods.sh openstack
```

```
#NOTE: Validate Deployment info
helm status tenant-radosgw-openstack
```

Execute script

```
+ openstack service list
+-----+-----+-----+
| ID | Name | Type |
+-----+-----+-----+
| 0eddeb6af4fd43ea8f73f63a1ae01438 | swift | object-store |
| 67cc6b945e934246b25d31a9374a64af | keystone | identity |
+-----+-----+-----+
```

```
ubuntu@node1: openstack endpoint list
+-----+-----+-----+-----+
↪+-----+-----+-----+-----+
↪------+
| ID | Region | Service Name | Service Type |
↪| Enabled | Interface | URL |
↪| | | |
+-----+-----+-----+-----+
↪+-----+-----+-----+-----+
↪------+
| 265212a5856e4a0aba8eb294508279c7 | RegionOne | swift | object-store |
↪| True | admin | http://ceph-rgw.openstack.svc.cluster.local:8088/ |
↪swift/v1/KEY_${tenant_id}s |
| 430174e280444598b676d503c5ed9799 | RegionOne | swift | object-store |
↪| True | internal | http://ceph-rgw.openstack.svc.cluster.local:8088/ |
↪swift/v1/KEY_${tenant_id}s |
| 480cc7360752498e822cbbc7211d213a | RegionOne | keystone | identity |
↪| True | internal | http://keystone-api.openstack.svc.cluster. |
↪local:5000/v3 |
| 8dfe4e4725b84e51a5eda564dee0960c | RegionOne | keystone | identity |
↪| True | public | http://keystone.openstack.svc.cluster.local:80/v3 |
↪|
| 948552a0d90940f7944f8c2eba7ef462 | RegionOne | swift | object-store |
↪| True | public | http://radosgw.openstack.svc.cluster.local:80/swift/ |
↪v1/KEY_${tenant_id}s |
| 9b3526e36307400b9accfc7cc834cf99 | RegionOne | keystone | identity |
↪| True | admin | http://keystone.openstack.svc.cluster.local:80/v3 |
↪|
+-----+-----+-----+-----+
↪+-----+-----+-----+-----+
↪------+
```

## Results from Step 5, 6, 7:

Storage on node1, node2, node3:

```
ubuntu@node1:~$ ls -l /var/lib/openstack-helm/
total 8
drwxr-xr-x 4 root root 4096 Aug 27 04:57 ceph
drwxr-xr-x 3 root root 4096 Aug 27 05:47 tenant-ceph
```

Storage on node4, node5, node6:

```
ubuntu@node6:~$ ls -l /var/lib/openstack-helm/
total 4
drwxr-xr-x 3 root root 4096 Aug 27 05:49 tenant-ceph
```

## Ceph Status

```
ubuntu@node1: kubectl exec -n tenant-ceph ceph-mon-2g6km -- ceph -s
cluster:
 id: 38339a5a-d976-49dd-88a0-2ac092c271c7
 health: HEALTH_OK

services:
 mon: 3 daemons, quorum node3,node2,node1
 mgr: node2(active), standbys: node1
 osd: 3 osds: 3 up, 3 in
 rgw: 2 daemons active

data:
 pools: 18 pools, 93 pgs
 objects: 193 objects, 37421 bytes
 usage: 33394 MB used, 199 GB / 232 GB avail
 pgs: 93 active+clean
```

```
ubuntu@node1: kubectl get cm -n openstack
NAME DATA AGE
ceph-etc 1 2h
ceph-openstack-config-ceph-prov-bin-clients 2 2h
ceph-rgw-bin 5 3m
ceph-rgw-bin-ks 3 3m
ceph-rgw-etc 1 3m
tenant-ceph-etc 1 1h
tenant-ceph-openstack-config-ceph-prov-bin-clients 2 1h
tenant-radosgw-openstack-ceph-templates 1 3m
...
```

```
ubuntu@node1: kubectl get cm -n openstack ceph-rgw-etc -o yaml
```

```
apiVersion: v1
data:
 ceph.conf: |
```

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```
[global]
cephx = true
cephx_cluster_require_signatures = true
cephx_require_signatures = false
cephx_service_require_signatures = false
mon_addr = :6790
mon_host = ceph-mon.tenant-ceph.svc.cluster.local:6790
[osd]
cluster_network = 10.0.0.0/24
ms_bind_port_max = 7100
ms_bind_port_min = 6800
osd_max_object_name_len = 256
osd_mkfs_options_xfs = -f -i size=2048
osd_mkfs_type = xfs
public_network = 10.0.0.0/24
kind: ConfigMap
metadata:
 creationTimestamp: 2018-08-27T07:47:59Z
 name: ceph-rgw-etc
 namespace: openstack
 resourceVersion: "30058"
 selfLink: /api/v1/namespaces/openstack/configmaps/ceph-rgw-etc
 uid: 848df05c-a9cd-11e8-bb1d-fa163ec12213
```

**Note**

mon\_addr and mon\_host have non default mon port 6790.

```
ubuntu@node1: kubectl get secrets -n openstack
NAME TYPE
↪ ceph-keystone-admin Opaque
↪ ceph-keystone-user Opaque
↪ ceph-keystone-user-rgw Opaque
↪ ceph-ks-endpoints-token-crnr kubernetes.
↪io/service-account-token 3 4m
↪ ceph-ks-service-token-9bnr8 kubernetes.
↪io/service-account-token 3 4m
↪ ceph-openstack-config-ceph-ns-key-cleaner-token-jj7n6
↪io/service-account-token 3 2h
↪ ceph-openstack-config-ceph-ns-key-generator-token-5sqfw
↪io/service-account-token 3 2h
↪ ceph-rgw-storage-init-token-mhqdw kubernetes.
↪io/service-account-token 3 4m
↪ ceph-rgw-token-9s6nd kubernetes.
```

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```

↪io/service-account-token 3 4m
os-ceph-bootstrap-rgw-keyring Opaque
↪ 1 36m
pvc-ceph-client-key kubernetes.
↪io/rbd 1 2h
pvc-tenant-ceph-client-key kubernetes.
↪io/rbd 1 1h
swift-ks-user-token-9slvc kubernetes.
↪io/service-account-token 3 4m
tenant-ceph-openstack-config-ceph-ns-key-cleaner-token-r6v9v kubernetes.
↪io/service-account-token 3 1h
tenant-ceph-openstack-config-ceph-ns-key-generator-token-dt472 kubernetes.
↪io/service-account-token 3 1h
...

```

```

ubuntu@node1: kubectl get svc -n tenant-ceph
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S)
↪ AGE
ceph-mgr ClusterIP 10.107.183.4 <none> 7001/TCP,
↪9284/TCP 2h
ceph-mon ClusterIP None <none> 6790/TCP
↪ 2h
ceph-mon-discovery ClusterIP None <none> 6790/TCP
↪ 2h
ingress ClusterIP 10.109.105.140 <none> 80/TCP,443/
↪TCP 3h
ingress-error-pages ClusterIP None <none> 80/TCP
↪ 3h
ingress-exporter ClusterIP 10.102.110.153 <none> 10254/TCP
↪ 3h

```

```

ubuntu@node1: kubectl get endpoints -n tenant-ceph
NAME ENDPOINTS
↪ AGE
ceph-mgr 10.0.0.12:9284,10.0.0.16:9284,10.0.0.12:7001 + 1 more...
↪ 2h
ceph-mon 10.0.0.12:6790,10.0.0.16:6790,10.0.0.9:6790
↪ 2h
ceph-mon-discovery 10.0.0.12:6790,10.0.0.16:6790,10.0.0.9:6790
↪ 2h
ingress 192.168.2.7:80,192.168.5.14:80,192.168.2.7:443 + 1 more.
↪.. 3h
ingress-error-pages 192.168.2.8:8080,192.168.5.13:8080
↪ 3h
ingress-exporter 192.168.2.7:10254,192.168.5.14:10254
↪ 3h

```

```

ubuntu@node1: kubectl get endpoints -n openstack
NAME ENDPOINTS

```

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|                             |     |                                                 |    |
|-----------------------------|-----|-------------------------------------------------|----|
| ↪                           | AGE |                                                 |    |
| ceph-rgw                    |     | 192.168.2.42:8088,192.168.5.44:8088             | ↪  |
| ↪                           | 20m |                                                 |    |
| ingress                     |     | 192.168.2.4:80,192.168.5.5:80,192.168.2.4:443   | +↪ |
| ↪1 more...                  | 3h  |                                                 |    |
| ingress-error-pages         |     | 192.168.2.3:8080,192.168.5.6:8080               | ↪  |
| ↪                           | 3h  |                                                 |    |
| ingress-exporter            |     | 192.168.2.4:10254,192.168.5.5:10254             | ↪  |
| ↪                           | 3h  |                                                 |    |
| keystone                    |     | 192.168.2.4:80,192.168.5.5:80,192.168.2.4:443   | +↪ |
| ↪1 more...                  | 2h  |                                                 |    |
| keystone-api                |     | 192.168.2.21:5000,192.168.5.24:5000             | ↪  |
| ↪                           | 2h  |                                                 |    |
| mariadb                     |     | 192.168.2.17:3306                               | ↪  |
| ↪                           | 2h  |                                                 |    |
| mariadb-discovery           |     | 192.168.5.22:4567,192.168.5.22:3306             | ↪  |
| ↪                           | 2h  |                                                 |    |
| mariadb-ingress-error-pages |     | 192.168.5.20:8080                               | ↪  |
| ↪                           | 2h  |                                                 |    |
| mariadb-server              |     | 192.168.5.22:3306                               | ↪  |
| ↪                           | 2h  |                                                 |    |
| memcached                   |     | 192.168.2.19:11211                              | ↪  |
| ↪                           | 2h  |                                                 |    |
| rabbitmq                    |     | 192.168.0.196:15672,192.168.2.18:15672,192.168. |    |
| ↪5.23:15672 + 6 more...     | 2h  |                                                 |    |
| rabbitmq-dsv-7b1733         |     | 192.168.0.196:15672,192.168.2.18:15672,192.168. |    |
| ↪5.23:15672 + 6 more...     | 2h  |                                                 |    |
| rabbitmq-mgr-7b1733         |     | 192.168.2.4:80,192.168.5.5:80,192.168.2.4:443   | +↪ |
| ↪1 more...                  | 2h  |                                                 |    |
| radosgw                     |     | 192.168.2.4:80,192.168.5.5:80,192.168.2.4:443   | +↪ |
| ↪1 more...                  | 20m |                                                 |    |

```
ubuntu@node1: kubectl get svc -n openstack
```

| NAME                | TYPE      | CLUSTER-IP     | EXTERNAL-IP | ↪     |
|---------------------|-----------|----------------|-------------|-------|
| ↪PORT(S)            | AGE       |                |             |       |
| ceph-rgw            | ClusterIP | 10.102.173.130 | <none>      | 8088/ |
| ↪TCP                | 20m       |                |             |       |
| ingress             | ClusterIP | 10.102.1.71    | <none>      | 80/   |
| ↪TCP,443/TCP        | 3h        |                |             |       |
| ingress-error-pages | ClusterIP | None           | <none>      | 80/   |
| ↪TCP                | 3h        |                |             |       |
| ingress-exporter    | ClusterIP | 10.105.29.29   | <none>      | ↪     |
| ↪10254/TCP          | 3h        |                |             |       |
| keystone            | ClusterIP | 10.108.94.108  | <none>      | 80/   |
| ↪TCP,443/TCP        | 2h        |                |             |       |
| keystone-api        | ClusterIP | 10.99.50.35    | <none>      | 5000/ |
| ↪TCP                | 2h        |                |             |       |
| mariadb             | ClusterIP | 10.111.140.93  | <none>      | 3306/ |
| ↪TCP                | 2h        |                |             |       |

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|                             |           |                |        |       |
|-----------------------------|-----------|----------------|--------|-------|
| mariadb-discovery           | ClusterIP | None           | <none> | 3306/ |
| ↪TCP, 4567/TCP              | 2h        |                |        |       |
| mariadb-ingress-error-pages | ClusterIP | None           | <none> | 80/   |
| ↪TCP                        | 2h        |                |        |       |
| mariadb-server              | ClusterIP | 10.101.237.241 | <none> | 3306/ |
| ↪TCP                        | 2h        |                |        |       |
| memcached                   | ClusterIP | 10.111.175.130 | <none> |       |
| ↪11211/TCP                  | 2h        |                |        |       |
| rabbitmq                    | ClusterIP | 10.96.78.137   | <none> | 5672/ |
| ↪TCP, 25672/TCP, 15672/TCP  | 2h        |                |        |       |
| rabbitmq-dsv-7b1733         | ClusterIP | None           | <none> | 5672/ |
| ↪TCP, 25672/TCP, 15672/TCP  | 2h        |                |        |       |
| rabbitmq-mgr-7b1733         | ClusterIP | 10.104.105.46  | <none> | 80/   |
| ↪TCP, 443/TCP               | 2h        |                |        |       |
| radosgw                     | ClusterIP | 10.101.237.167 | <none> | 80/   |
| ↪TCP, 443/TCP               | 20m       |                |        |       |

```
ubuntu@node1: kubectl get storageclasses
NAME PROVISIONER AGE
general ceph.com/rbd 1h
```

### 8) Deploy Glance:

Script to update and execute: 100-glance.sh

Update script overrides as following:

```
endpoints:
 object_store:
 namespace: tenant-ceph
 ceph_object_store:
 namespace: tenant-ceph
ceph_client:
 configmap: tenant-ceph-etc
 user_secret_name: tenant-pvc-ceph-client-key
```

```
ubuntu@node1: openstack service list
+-----+-----+-----+
| ID | Name | Type |
+-----+-----+-----+
0eddeb6af4fd43ea8f73f63a1ae01438	swift	object-store
67cc6b945e934246b25d31a9374a64af	keystone	identity
81a61ec8eff74070bb3c2f0118c1bcd5	glance	image
+-----+-----+-----+
```

```
ubuntu@node1: openstack endpoint list
+-----+-----+-----+
↪+-----+-----+-----+
↪-----+-----+-----+
```

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```

| ID | Region | Service Name | Service Type |
+----+-----+-----+-----+
| Enabled | Interface | URL |
+-----+-----+-----+
| 265212a5856e4a0aba8eb294508279c7 | RegionOne | swift | object-store |
| True | admin | http://ceph-rgw.openstack.svc.cluster.local:8088/ |
| swift/v1/KEY_$(tenant_id)s |
3fd88bc6e4774ff78c94bfa8aaaec3cf	RegionOne	glance	image
True	admin	http://glance-api.openstack.svc.cluster.local:9292/	
430174e280444598b676d503c5ed9799	RegionOne	swift	object-store
True	internal	http://ceph-rgw.openstack.svc.cluster.local:8088/	
swift/v1/KEY_$(tenant_id)s			
47505d5186ab448e9213f67bc833d2f1	RegionOne	glance	image
True	public	http://glance.openstack.svc.cluster.local:80/	
480cc7360752498e822cbbc7211d213a	RegionOne	keystone	identity
True	internal	http://keystone-api.openstack.svc.cluster	
local:5000/v3			
8dfe4e4725b84e51a5eda564dee0960c	RegionOne	keystone	identity
True	public	http://keystone.openstack.svc.cluster.local:80/v3	
937c2eacce8b4159bf918f4005c2b0ab	RegionOne	glance	image
True	internal	http://glance-api.openstack.svc.cluster.local:9292/	
948552a0d90940f7944f8c2eba7ef462	RegionOne	swift	object-store
True	public	http://radosgw.openstack.svc.cluster.local:80/swift/	
v1/KEY_$(tenant_id)s			
9b3526e36307400b9accfc7cc834cf99	RegionOne	keystone	identity
True	admin	http://keystone.openstack.svc.cluster.local:80/v3	
+-----+-----+-----+-----+

```

**Note**

Above output shows `http://ceph-rgw.openstack.svc.cluster.local` which shows that swift is pointing to tenant-ceph.

**9) Deploy Cinder:**

Script to update and execute: `110-cinder.sh`

Update script overrides as following:

**backup:**

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```

posix:
 volume:
 class_name: rbd-tenant
ceph_client:
 configmap: tenant-ceph-etc
 user_secret_name: pvc-tenant-ceph-client-key

```

```

+ OS_CLOUD=openstack_helm
+ openstack service list
+-----+-----+-----+
| ID | Name | Type |
+-----+-----+-----+
| 0eddeb6af4fd43ea8f73f63a1ae01438 | swift | object-store |
| 66bd0179eada4ab8899a58356fd4d508 | cinder | volume |
| 67cc6b945e934246b25d31a9374a64af | keystone | identity |
| 81a61ec8eff74070bb3c2f0118c1bcd5 | glance | image |
| c126046fc5ec4c52acfc8fee0e2f4dda | cinderv2 | volumev2 |
| f89b99a31a124b7790e3bb60387380b1 | cinderv3 | volumev3 |
+-----+-----+-----+
+ sleep 30
+ openstack volume type list
+-----+-----+-----+
| ID | Name | Is Public |
+-----+-----+-----+
| d1734540-38e7-4ef8-b74d-36a2c71df8e5 | rbd1 | True |
+-----+-----+-----+
+ helm test cinder --timeout 900
RUNNING: cinder-test
PASSED: cinder-test

```

```

ubuntu@node1: kubectl exec -n tenant-ceph ceph-mon-2g6km -- ceph osd lspools
1 rbd,2 cephfs_metadata,3 cephfs_data,4 .rgw.root,5 default.rgw.control,
6 default.rgw.data.root,7 default.rgw.gc,8 default.rgw.log,
9 default.rgw.intent-log,10 default.rgw.meta,
11 default.rgw.usage,12 default.rgw.users.keys,
13 default.rgw.users.email,14 default.rgw.users.swift,
15 default.rgw.users.uid,16 default.rgw.buckets.extra,
17 default.rgw.buckets.index,18 default.rgw.buckets.data,
19 cinder.volumes,

```

**Note**

Above output shows that tenant ceph now has 19 pools including one for Cinder.

```

ubuntu@node1: kubectl exec -n tenant-ceph ceph-mon-2g6km -- ceph -s
cluster:
 id: 38339a5a-d976-49dd-88a0-2ac092c271c7

```

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```
health: HEALTH_OK

services:
 mon: 3 daemons, quorum node3,node2,node1
 mgr: node2(active), standbys: node1
 osd: 3 osds: 3 up, 3 in
 rgw: 2 daemons active

data:
 pools: 19 pools, 101 pgs
 objects: 233 objects, 52644 bytes
 usage: 33404 MB used, 199 GB / 232 GB avail
 pgs: 101 active+clean

io:
 client: 27544 B/s rd, 0 B/s wr, 26 op/s rd, 17 op/s wr
```

## 7.12 Values File Ordering

### 7.12.1 Problem Description

Each chart's `values.yaml` file contains various settings such as docker image definition, chart structure setting, form of the resources being distributed, and process configuration. Currently, the structure of the `yaml` file is complicated, and finding keys between charts proves difficult due to the lack of uniform values organization across charts.

This specification proposes introducing a uniform `values.yaml` structure across all charts in `openstack-helm`, `openstack-helm-infra`, and `openstack-helm-addons`, with the goal of reducing the complexities of working across multiple charts and reducing the effort for creating new charts.

### 7.12.2 Proposed Change

This specification proposes defining entries in the `values.yaml` file into two categories: top-level keys, and their children (sub-level) keys.

- The top-level keys are based on the organizational keys common to all charts in the `openstack-helm` repositories. The top-level keys are strictly ordered according to function, which creates a common organization pattern between all charts.
- All keys under top-level keys are listed in alphabetical order, with the exception of the `conf` key. As some configuration files require a strict ordering of their content, excluding this key from any alphabetical organization is required.

This specification also proposes to restrict the addition of any new top-level keys in charts across all OpenStack-Helm repositories, in order to maintain the common structure the ordering creates. The addition of a new top-level key shall be agreed upon by the OpenStack-Helm team on a case-by-case basis. The addition of any new top-level keys should be documented, and this specification shall be amended to account for any added keys.

Top-level keys are placed in this order:

- `images` \* sub-keys (alphabetical order)

- labels \* sub-keys (alphabetical order)
- dependencies \* sub-keys (alphabetical order)
- pod \* sub-keys (alphabetical order)
- secrets \* sub-keys (alphabetical order)
- endpoints \* sub-keys (alphabetical order)
- bootstrap \* sub-keys (alphabetical order)
- network \* sub-keys (alphabetical order)
- manifests \* sub-keys (alphabetical order)
- monitoring \* sub-keys (alphabetical order)
- conf \* sub-keys (up-to-chart-developer)

### Security Impact

No security impact.

### Performance Impact

This feature will not affect the performance of OpenStack-Helm.

### Alternatives

The alternative is to provide no organization layout for charts across all openstack-helm repositories.

## 7.12.3 Implementation

### Assignee(s)

#### Primary assignees:

powerds0111 (DaeSeong Kim <daeseong.kim@sk.com>) srwilkers (Steve Wilkerson <sw5822@att.com>)

### Work Items

The following work items need to be completed for this specification to be implemented.

- Update of developer documentation
- Add a template highlighting the updated values ordering for use in chart development
- Change ordering of keys across all charts in openstack-helm, openstack-helm-infra, and openstack-helm-addons

## 7.12.4 Testing

To successfully enforce the ordering defined here, our gates need a method for validating the ordering and the schema of all values.yaml files. Without such a mechanism, the overhead associated with properly reviewing and validating any changes to the structure will be substantial. A tool, such as yamllint, would provide this functionality and remove the need to write a custom validation tool



### 7.12.5 Documentation Impact

The developer documentation in OpenStack-Helm should be updated to guide key ordering on value files.

## 7.13 Specifications Purpose

A specification should precede any broad-reaching technical changes or proposals to OpenStack-Helm. Examples of changes requiring a specification include: a standard format to the values.yaml files, multiple backend support for neutron, and the approach for logging and monitoring in OpenStack-Helm. Some additional features will not need an accompanying specification, but may be tied back to an existing specification. An example of this would be introducing a service in OpenStack-Helm that could be included under the scope of a specification already drafted and approved.

## 7.14 Specifications Process

Before drafting a specification, a blueprint should be filed in [Storyboard](#) along with any dependencies the blueprint requires. Once the blueprint has been registered, submit the specification as a patch set to the specs/ directory using the supplied template.

More information about the blueprint + specification lifecycle can be found [here](#).



## INDICES AND TABLES

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