
Octavia Library Documentation

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OpenStack Octavia Team

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CONTENTS

- 1 Installation** **2**
- 2 Usage** **3**
- 3 Contributor Documentation** **4**
 - 3.1 Contributor Guidelines 4
- 4 Configuration** **5**
- 5 Command line interface reference** **6**
- 6 Users guide** **7**
- 7 Administrators guide** **8**
- 8 References** **9**
 - 8.1 Module Reference 9
 - 8.1.1 octavia_lib 9



A library to support Octavia provider drivers.

This python module provides a python library for Octavia provider driver developers.

See the provider driver development guide for more information:

<https://docs.openstack.org/octavia/latest/contributor/guides/providers.html>

Octavia-lib is distributed under the terms of the Apache License, Version 2.0. The full terms and conditions of this license are detailed in the LICENSE file.

- Free software: Apache license
- Documentation: <https://docs.openstack.org/octavia-lib/latest>
- Source: <https://opendev.org/openstack/octavia-lib>
- Bugs: <https://storyboard.openstack.org#!/project/openstack/octavia-lib>

INSTALLATION

At the command line:

```
$ pip install octavia-lib
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv octavia-lib  
$ pip install octavia-lib
```

**CHAPTER
TWO**

USAGE

Instructions for using the library are provided in the [Provider Driver Development Guide](#).

CONTRIBUTOR DOCUMENTATION

3.1 Contributor Guidelines

If you would like to contribute to the development of OpenStack, you must follow the steps in this page:

<http://docs.openstack.org/infra/manual/developers.html>

If you already have a good understanding of how the system works and your OpenStack accounts are set up, you can skip to the development workflow section of this documentation to learn how changes to OpenStack should be submitted for review via the Gerrit tool:

<http://docs.openstack.org/infra/manual/developers.html#development-workflow>

Pull requests submitted through GitHub will be ignored.

Bugs should be filed on Launchpad, not GitHub or Storyboard:

<https://bugs.launchpad.net/octavia>

CONFIGURATION

The octavia-lib library does not currently use any [oslo configuration](#) settings.

COMMAND LINE INTERFACE REFERENCE

The octavia-lib library does not provide a CLI.

See the python-octaviaclient for the Octavia CLI:

<https://docs.openstack.org/python-octaviaclient/latest/>

USERS GUIDE

The octavia-lib is a library supporting Octavia provider drivers.

Instructions for using the library are provided in the [Provider Driver Development Guide](#).

ADMINISTRATORS GUIDE

The octavia-lib is a library supporting Octavia provider drivers.

There are no administrator tasks or settings for octavia-lib.

Information on administrating Octavia deployments is available in the [Octavia Administration Guide](#).

REFERENCES

8.1 Module Reference

8.1.1 octavia_lib

octavia_lib package

Subpackages

octavia_lib.api package

Subpackages

octavia_lib.api.drivers package

Submodules

octavia_lib.api.drivers.data_models module

class octavia_lib.api.drivers.data_models.**BaseDataModel**

Bases: object

classmethod **from_dict**(*dict*)

to_dict(*calling_classes=None, recurse=False, render_unsets=False, **kwargs*)

Converts a data model to a dictionary.

class octavia_lib.api.drivers.data_models.**HealthMonitor**(*admin_state_up=Unset, delay=Unset, expected_codes=Unset, healthmonitor_id=Unset, http_method=Unset, max_retries=Unset, max_retries_down=Unset, name=Unset, pool_id=Unset, timeout=Unset, type=Unset, url_path=Unset, http_version=Unset, domain_name=Unset, project_id=Unset*)

Bases: *BaseDataModel*

```
class octavia_lib.api.drivers.data_models.L7Policy(action=Unset,
                                                admin_state_up=Unset,
                                                description=Unset,
                                                l7policy_id=Unset,
                                                listener_id=Unset, name=Unset,
                                                position=Unset,
                                                redirect_pool_id=Unset,
                                                redirect_url=Unset, rules=Unset,
                                                redirect_prefix=Unset,
                                                redirect_http_code=Unset,
                                                project_id=Unset)
```

Bases: [BaseDataModel](#)

```
class octavia_lib.api.drivers.data_models.L7Rule(admin_state_up=Unset,
                                                compare_type=Unset, invert=Unset,
                                                key=Unset, l7policy_id=Unset,
                                                l7rule_id=Unset, type=Unset,
                                                value=Unset, project_id=Unset)
```

Bases: [BaseDataModel](#)

```
class octavia_lib.api.drivers.data_models.Listener(admin_state_up=Unset,
                                                  connection_limit=Unset,
                                                  default_pool=Unset,
                                                  default_pool_id=Unset,
                                                  default_tls_container_ref=Unset,
                                                  default_tls_container_data=Unset,
                                                  description=Unset,
                                                  insert_headers=Unset,
                                                  l7policies=Unset,
                                                  listener_id=Unset,
                                                  loadbalancer_id=Unset,
                                                  name=Unset, protocol=Unset,
                                                  protocol_port=Unset,
                                                  sni_container_refs=Unset,
                                                  sni_container_data=Unset,
                                                  timeout_client_data=Unset,
                                                  timeout_member_connect=Unset,
                                                  timeout_member_data=Unset,
                                                  timeout_tcp_inspect=Unset,
                                                  client_ca_tls_container_ref=Unset,
                                                  client_ca_tls_container_data=Unset,
                                                  client_authentication=Unset,
                                                  client_crl_container_ref=Unset,
                                                  client_crl_container_data=Unset,
                                                  project_id=Unset,
                                                  allowed_cidrs=Unset,
                                                  tls_versions=Unset,
                                                  tls_ciphers=Unset,
                                                  alpn_protocols=Unset,
                                                  hsts_max_age=Unset,
                                                  hsts_include_subdomains=Unset,
                                                  hsts_preload=Unset)
```

Bases: *BaseDataModel*

```
class octavia_lib.api.drivers.data_models.LoadBalancer(admin_state_up=Unset,
description=Unset,
flavor=Unset, listeners=Unset,
loadbalancer_id=Unset,
name=Unset, pools=Unset,
project_id=Unset,
vip_address=Unset,
vip_network_id=Unset,
vip_port_id=Unset,
vip_subnet_id=Unset,
vip_qos_policy_id=Unset,
vip_sg_ids=Unset,
additional_vips=Unset,
availability_zone=Unset)
```

Bases: *BaseDataModel*

```
class octavia_lib.api.drivers.data_models.Member(address=Unset,
admin_state_up=Unset,
member_id=Unset,
monitor_address=Unset,
monitor_port=Unset, name=Unset,
pool_id=Unset, protocol_port=Unset,
subnet_id=Unset, weight=Unset,
backup=Unset, project_id=Unset,
vnic_type=Unset)
```

Bases: *BaseDataModel*

```
class octavia_lib.api.drivers.data_models.Pool(admin_state_up=Unset,
description=Unset,
healthmonitor=Unset,
lb_algorithm=Unset,
loadbalancer_id=Unset,
members=Unset, name=Unset,
pool_id=Unset, listener_id=Unset,
protocol=Unset,
session_persistence=Unset,
tls_container_ref=Unset,
tls_container_data=Unset,
ca_tls_container_ref=Unset,
ca_tls_container_data=Unset,
crl_container_ref=Unset,
crl_container_data=Unset,
tls_enabled=Unset, project_id=Unset,
tls_versions=Unset, tls_ciphers=Unset,
alpn_protocols=Unset)
```

Bases: *BaseDataModel*

```
class octavia_lib.api.drivers.data_models.UnsetType
```

Bases: `object`

```
class octavia_lib.api.drivers.data_models.VIP(vip_address=Unset,
                                              vip_network_id=Unset,
                                              vip_port_id=Unset, vip_subnet_id=Unset,
                                              vip_qos_policy_id=Unset,
                                              vip_sg_ids=Unset)
```

Bases: *BaseDataModel*

octavia_lib.api.drivers.driver_lib module

```
class octavia_lib.api.drivers.driver_lib.DriverLibrary(status_socket='/var/run/octavia/status.sock',
                                                       stats_socket='/var/run/octavia/stats.sock',
                                                       get_socket='/var/run/octavia/get.sock',
                                                       **kwargs)
```

Bases: object

get_healthmonitor(*healthmonitor_id*)

Get a health monitor object.

Parameters

healthmonitor_id (*UUID string*) -- The health monitor ID to lookup.

Raises

- *DriverAgentTimeout* -- The driver agent did not respond inside the timeout.
- *DriverError* -- An unexpected error occurred.

Returns

A HealthMonitor object or None if not found.

get_l7policy(*l7policy_id*)

Get a L7 policy object.

Parameters

l7policy_id (*UUID string*) -- The L7 policy ID to lookup.

Raises

- *DriverAgentTimeout* -- The driver agent did not respond inside the timeout.
- *DriverError* -- An unexpected error occurred.

Returns

A L7Policy object or None if not found.

get_l7rule(*l7rule_id*)

Get a L7 rule object.

Parameters

l7rule_id (*UUID string*) -- The L7 rule ID to lookup.

Raises

- *DriverAgentTimeout* -- The driver agent did not respond inside the timeout.
- *DriverError* -- An unexpected error occurred.

Returns

A L7Rule object or None if not found.

get_listener(*listener_id*)

Get a listener object.

Parameters

listener_id (*UUID string*) -- The listener ID to lookup.

Raises

- **DriverAgentTimeout** -- The driver agent did not respond inside the timeout.
- **DriverError** -- An unexpected error occurred.

Returns

A Listener object or None if not found.

get_loadbalancer(*loadbalancer_id*)

Get a load balancer object.

Parameters

loadbalancer_id (*UUID string*) -- The load balancer ID to lookup.

Raises

- **DriverAgentTimeout** -- The driver agent did not respond inside the timeout.
- **DriverError** -- An unexpected error occurred.

Returns

A LoadBalancer object or None if not found.

get_member(*member_id*)

Get a member object.

Parameters

member_id (*UUID string*) -- The member ID to lookup.

Raises

- **DriverAgentTimeout** -- The driver agent did not respond inside the timeout.
- **DriverError** -- An unexpected error occurred.

Returns

A Member object or None if not found.

get_pool(*pool_id*)

Get a pool object.

Parameters

pool_id (*UUID string*) -- The pool ID to lookup.

Raises

- **DriverAgentTimeout** -- The driver agent did not respond inside the timeout.

- ***DriverError*** -- An unexpected error occurred.

Returns

A Pool object or None if not found.

update_listener_statistics(*statistics*)

Update listener statistics.

Parameters

statistics (*dict*) -- Statistics for listeners: **id** (string): ID for listener. **active_connections** (int): Number of currently active connections. **bytes_in** (int): Total bytes received. **bytes_out** (int): Total bytes sent. **request_errors** (int): Total requests not fulfilled. **total_connections** (int): The total connections handled.

Raises

UpdateStatisticsError

Returns

None

update_loadbalancer_status(*status*)

Update load balancer status.

Parameters

status (*dict*) -- dictionary defining the provisioning status and operating status for load balancer objects, including pools, members, listeners, L7 policies, and L7 rules. **iod** (string): ID for the object. **provisioning_status** (string): Provisioning status for the object. **operating_status** (string): Operating status for the object.

Raises

UpdateStatusError

Returns

None

octavia_lib.api.drivers.exceptions module

exception octavia_lib.api.drivers.exceptions.**Conflict**(*args, **kwargs)

Bases: Exception

Exception raised when the driver has a resource conflict.

This exception includes two strings: The user fault string and the optional operator fault string. The user fault string, "user_fault_string", will be provided to the API requester. The operator fault string, "operator_fault_string", will be logged in the Octavia API log file for the operator to use when debugging.

Parameters

- **user_fault_string** (*string*) -- String provided to the API requester.
- **operator_fault_string** (*string*) -- Optional string logged by the Octavia API for the operator to use when debugging.

operator_fault_string = 'The provider driver had a resource conflict.'

user_fault_string = 'The provider driver had a resource conflict.'

exception octavia_lib.api.drivers.exceptions.**DriverAgentNotFound**(*args, **kwargs)

Bases: Exception

Exception raised when the driver agent cannot be reached.

Each exception will include a message field that describes the error. :param fault_string: String describing the fault. :type fault_string: string

fault_string = 'The driver-agent process was not found or not ready.'

exception octavia_lib.api.drivers.exceptions.**DriverAgentTimeout**(*args, **kwargs)

Bases: Exception

Exception raised when the driver agent does not respond.

Raised when communication with the driver agent times out. Each exception will include a message field that describes the error. :param fault_string: String describing the fault. :type fault_string: string

fault_string = 'The driver-agent timeout.'

exception octavia_lib.api.drivers.exceptions.**DriverError**(*args, **kwargs)

Bases: Exception

Catch all exception that drivers can raise.

This exception includes two strings: The user fault string and the optional operator fault string. The user fault string, "user_fault_string", will be provided to the API requester. The operator fault string, "operator_fault_string", will be logged in the Octavia API log file for the operator to use when debugging.

Parameters

- **user_fault_string** (*string*) -- String provided to the API requester.
- **operator_fault_string** (*string*) -- Optional string logged by the Octavia API for the operator to use when debugging.

operator_fault_string = 'An unknown driver error occurred.'

user_fault_string = 'An unknown driver error occurred.'

exception octavia_lib.api.drivers.exceptions.**NotFound**(*args, **kwargs)

Bases: Exception

Exception raised when the driver cannot find a resource.

This exception includes two strings: The user fault string and the optional operator fault string. The user fault string, "user_fault_string", will be provided to the API requester. The operator fault string, "operator_fault_string", will be logged in the Octavia API log file for the operator to use when debugging.

Parameters

- **user_fault_string** (*string*) -- String provided to the API requester.
- **operator_fault_string** (*string*) -- Optional string logged by the Octavia API for the operator to use when debugging.

```
operator_fault_string = 'The provider driver could not find a resource.'
```

```
user_fault_string = 'The provider driver could not find a resource.'
```

```
exception octavia_lib.api.drivers.exceptions.NotImplementedError(*args, **kwargs)
```

Bases: Exception

Exception raised when a driver does not implement an API function.

Parameters

- **user_fault_string** (*string*) -- String provided to the API requester.
- **operator_fault_string** (*string*) -- Optional string logged by the Octavia API for the operator to use when debugging.

```
operator_fault_string = 'This feature is not implemented by this provider.'
```

```
user_fault_string = 'This feature is not implemented by the provider.'
```

```
exception octavia_lib.api.drivers.exceptions.UnsupportedOptionError(*args,  
                                                                    **kwargs)
```

Bases: Exception

Exception raised when a driver does not support an option.

Provider drivers will validate that they can complete the request -- that all options are supported by the driver. If the request fails validation, drivers will raise an `UnsupportedOptionError` exception. For example, if a driver does not support a flavor passed as an option to `load balancer create()`, the driver will raise an `UnsupportedOptionError` and include a message parameter providing an explanation of the failure.

Parameters

- **user_fault_string** (*string*) -- String provided to the API requester.
- **operator_fault_string** (*string*) -- Optional string logged by the Octavia API for the operator to use when debugging.

```
operator_fault_string = 'A specified option is not supported by this provider.'
```

```
user_fault_string = 'A specified option is not supported by this provider.'
```

```
exception octavia_lib.api.drivers.exceptions.UpdateStatisticsError(*args,  
                                                                    **kwargs)
```

Bases: Exception

Exception raised when a statistics update fails.

Each exception will include a message field that describes the error and references to the failed record if available. :param fault_string: String describing the fault. :type fault_string: string :param status_object: The object the fault occurred on. :type status_object: string :param status_object_id: The ID of the object that failed stats update. :type status_object_id: string :param status_record: The stats update record that caused the fault. :type status_record: string

```
fault_string = 'The statistics update had an unknown error.'
```

```
stats_object = None
```

```
stats_object_id = None
```

```
stats_record = None
```

exception `octavia_lib.api.drivers.exceptions.UpdateStatusError(*args, **kwargs)`

Bases: Exception

Exception raised when a status update fails.

Each exception will include a message field that describes the error and references to the failed record if available. :param fault_string: String describing the fault. :type fault_string: string :param status_object: The object the fault occurred on. :type status_object: string :param status_object_id: The ID of the object that failed status update. :type status_object_id: string :param status_record: The status update record that caused the fault. :type status_record: string

```
fault_string = 'The status update had an unknown error.'
```

```
status_object = None
```

```
status_object_id = None
```

```
status_record = None
```

`octavia_lib.api.drivers.provider_base` module

class `octavia_lib.api.drivers.provider_base.ProviderDriver`

Bases: object

create_vip_port(*loadbalancer_id*, *project_id*, *vip_dictionary*, *additional_vip_dicts*)

Creates a port for a load balancer VIP.

If the driver supports creating VIP ports, the driver will create a VIP port with the primary VIP and all additional VIPs added to the port, and return the `vip_dictionary` populated with the `vip_port_id` and a list of `vip_dictionaries` populated with data from the additional VIPs (which are guaranteed to be in the same Network). This might look like: `{ 'port_id': port_id, 'subnet_id': subnet_id_1, 'ip_address': ip1 }, [{ 'subnet_id': subnet_id_2, 'ip_address': ip2 }, { ... }, { ... }]` If the driver does not support port creation, the driver will raise a `NotImplementedError`.

Parameters

- **loadbalancer_id** (*string*) -- ID of loadbalancer.
- **project_id** (*string*) -- The project ID to create the VIP under.

Param

`vip_dictionary`: The VIP dictionary.

Param

`additional_vip_dicts`: A list of additional VIP dictionaries, with subnets guaranteed to be in the same network as the primary `vip_dictionary`.

Returns

VIP dictionary with `vip_port_id` + a list of additional VIP dictionaries (`vip_dict`, `additional_vip_dicts`).

Raises

- *DriverError* -- An unexpected error occurred in the driver.
- *NotImplementedError* -- The driver does not support creating VIP ports.

get_supported_availability_zone_metadata()

Returns a dict of supported availability zone metadata keys.

The returned dictionary will include key/value pairs, 'name' and 'description.'

Returns

The availability zone metadata dictionary

Raises

- *DriverError* -- An unexpected error occurred in the driver.
- *NotImplementedError* -- The driver does not support AZs.

get_supported_flavor_metadata()

Returns a dict of flavor metadata keys supported by this driver.

The returned dictionary will include key/value pairs, 'name' and 'description.'

Returns

The flavor metadata dictionary

Raises

- *DriverError* -- An unexpected error occurred in the driver.
- *NotImplementedError* -- The driver does not support flavors.

health_monitor_create(*healthmonitor*)

Creates a new health monitor.

Parameters

healthmonitor (*object*) -- The health monitor object.

Returns

Nothing if the create request was accepted.

Raises

- *DriverError* -- An unexpected error occurred in the driver.
- *NotImplementedError* -- if driver does not support request.
- *UnsupportedOptionError* -- if driver does not support one of the configuration options.

health_monitor_delete(*healthmonitor*)

Deletes a healthmonitor_id.

Parameters

healthmonitor (*object*) -- The monitor to delete.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.

health_monitor_update(*old_healthmonitor*, *new_healthmonitor*)

Updates a health monitor.

Parameters

- **old_healthmonitor** (*object*) -- The baseline health monitor object.
- **new_healthmonitor** (*object*) -- The updated health monitor object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

l7policy_create(*l7policy*)

Creates a new L7 policy.

Parameters

l7policy (*object*) -- The L7 policy object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

l7policy_delete(*l7policy*)

Deletes an L7 policy.

Parameters

l7policy (*object*) -- The L7 policy to delete.

Returns

Nothing if the delete request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.

l7policy_update(*old_l7policy*, *new_l7policy*)

Updates an L7 policy.

Parameters

- **old_l7policy** (*object*) -- The baseline L7 policy object.
- **new_l7policy** (*object*) -- The updated L7 policy object.

Returns

Nothing if the update request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

l7rule_create(*l7rule*)

Creates a new L7 rule.

Parameters

l7rule (*object*) -- The L7 rule object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

l7rule_delete(*l7rule*)

Deletes an L7 rule.

Parameters

l7rule (*object*) -- The L7 rule to delete.

Returns

Nothing if the delete request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.

l7rule_update(*old_l7rule*, *new_l7rule*)

Updates an L7 rule.

Parameters

- **old_l7rule** (*object*) -- The baseline L7 rule object.
- **new_l7rule** (*object*) -- The updated L7 rule object.

Returns

Nothing if the update request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.

- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

listener_create(*listener*)

Creates a new listener.

Parameters

listener (*object*) -- The listener object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

listener_delete(*listener*)

Deletes a listener.

Parameters

listener (*object*) -- The listener to delete.

Returns

Nothing if the delete request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.

listener_update(*old_listener*, *new_listener*)

Updates a listener.

Parameters

- **old_listener** (*object*) -- The baseline listener object.
- **new_listener** (*object*) -- The updated listener object.

Returns

Nothing if the update request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

loadbalancer_create(*loadbalancer*)

Creates a new load balancer.

Parameters

loadbalancer (*object*) -- The load balancer object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- The driver does not support create.
- ***UnsupportedOptionError*** -- The driver does not support one of the configuration options.

loadbalancer_delete(*loadbalancer*, *cascade=False*)

Deletes a load balancer.

Parameters

- **loadbalancer** (*object*) -- The load balancer to delete.
- **cascade** (*bool*) -- If True, deletes all child objects (listeners, pools, etc.) in addition to the load balancer.

Returns

Nothing if the delete request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.

loadbalancer_failover(*loadbalancer_id*)

Performs a fail over of a load balancer.

Parameters

loadbalancer_id (*string*) -- ID of the load balancer to failover.

Returns

Nothing if the failover request was accepted.

Raises

DriverError -- An unexpected error occurred in the driver.

Raises

NotImplementedError if driver does not support request.

loadbalancer_update(*old_loadbalancer*, *new_loadbalancer*)

Updates a load balancer.

Parameters

- **old_loadbalancer** (*object*) -- The baseline load balancer object.
- **new_loadbalancer** (*object*) -- The updated load balancer object.

Returns

Nothing if the update request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- The driver does not support request.
- ***UnsupportedOptionError*** -- The driver does not support one of the configuration options.

member_batch_update(*pool_id*, *members*)

Creates, updates, or deletes a set of pool members.

Parameters

- **pool_id** (*string*) -- The id of the pool to update.
- **members** (*list*) -- List of member objects.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

member_create(*member*)

Creates a new member for a pool.

Parameters

member (*object*) -- The member object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

member_delete(*member*)

Deletes a pool member.

Parameters

member (*object*) -- The member to delete.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.

member_update(*old_member*, *new_member*)

Updates a pool member.

Parameters

- **old_member** (*object*) -- The baseline member object.
- **new_member** (*object*) -- The updated member object.

Returns

Nothing if the create request was accepted.

Raises

- **DriverError** -- An unexpected error occurred in the driver.
- **NotImplementedError** -- if driver does not support request.
- **UnsupportedOptionError** -- if driver does not support one of the configuration options.

name = None

pool_create(*pool*)

Creates a new pool.

Parameters

pool (*object*) -- The pool object.

Returns

Nothing if the create request was accepted.

Raises

- **DriverError** -- An unexpected error occurred in the driver.
- **NotImplementedError** -- if driver does not support request.
- **UnsupportedOptionError** -- if driver does not support one of the configuration options.

pool_delete(*pool*)

Deletes a pool and its members.

Parameters

pool (*object*) -- The pool to delete.

Returns

Nothing if the create request was accepted.

Raises

- **DriverError** -- An unexpected error occurred in the driver.
- **NotImplementedError** -- if driver does not support request.

pool_update(*old_pool*, *new_pool*)

Updates a pool.

Parameters

- **pool** (*object*) -- The baseline pool object.

- **pool** -- The updated pool object.

Returns

Nothing if the create request was accepted.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- if driver does not support request.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

validate_availability_zone(*availability_zone_metadata*)

Validates if driver can support the availability zone.

Parameters

availability_zone_metadata (*dict*) -- Dictionary with az metadata.

Returns

Nothing if the availability zone is valid and supported.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- The driver does not support availability zones.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.

validate_flavor(*flavor_metadata*)

Validates if driver can support the flavor.

Parameters

flavor_metadata (*dict*) -- Dictionary with flavor metadata.

Returns

Nothing if the flavor is valid and supported.

Raises

- ***DriverError*** -- An unexpected error occurred in the driver.
- ***NotImplementedError*** -- The driver does not support flavors.
- ***UnsupportedOptionError*** -- if driver does not support one of the configuration options.
- ***octavia_lib.api.drivers.exceptions.NotFound*** -- if the driver cannot find a resource.

Module contents**Module contents****octavia_lib.common package****Submodules**

`octavia_lib.common.constants` module

Module contents

Submodules

`octavia_lib.version` module

`octavia_lib.version.product_string()`

`octavia_lib.version.vendor_string()`

`octavia_lib.version.version_string_with_package()`

Module contents