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# **OpenStack-Ansible Documentation: os\_placement role**

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## DEFAULT VARIABLES

```
# Set installation method
placement_install_method: "source"
placement_venv_python_executable: "{{ openstack_venv_python_executable |
↳default('python2') }}"

# Set the package install state for distribution and pip packages
# Options are 'present' and 'latest'
placement_package_state: "latest"
placement_pip_package_state: "latest"

# Set the host which will execute the shade modules
# for the service setup. The host must already have
# clouds.yaml properly configured.
placement_service_setup_host: "{{ openstack_service_setup_host | default(
↳'localhost') }}"
placement_service_setup_host_python_interpreter: "{{ openstack_service_
↳setup_host_python_interpreter | default((placement_service_setup_host ==
↳'localhost') | ternary(ansible_playbook_python, ansible_python[
↳'executable']))) }}"

placement_git_repo: https://opendev.org/openstack/placement
placement_git_install_branch: master
placement_upper_constraints_url: "{{ requirements_git_url | default(
↳'https://releases.openstack.org/constraints/upper/' ~ requirements_git_
↳install_branch | default('master')) }}"
placement_git_constraints:
  - "git+{{ placement_git_repo }}@{{ placement_git_install_branch }}"
  ↳#egg=openstack-placement"
  - "--constraint {{ placement_upper_constraints_url }}"

placement_pip_install_args: "{{ pip_install_options | default('') }}"

# Name of the virtual env to deploy into
placement_venv_tag: "{{ venv_tag | default('untagged') }}"
placement_bin: "{{ _placement_bin }}"

## Database info
placement_db_setup_host: "{{ openstack_db_setup_host | default('localhost
↳') }}"
placement_db_setup_python_interpreter: "{{ openstack_db_setup_python_
↳interpreter | default((placement_db_setup_host == 'localhost') |
↳ternary(ansible_playbook_python, ansible_python['executable']))) }}"
placement_galera_address: "{{ galera_address | default('127.0.0.1') }}"
```

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placement_galera_database: placement
placement_galera_user: placement
placement_galera_use_ssl: "{{ galera_use_ssl | default(False) }}"
placement_galera_ssl_ca_cert: "{{ galera_ssl_ca_cert | default('/etc/ssl/
→certs/galera-ca.pem') }}"
placement_galera_port: 3306

## Placement User / Group
placement_system_user_name: placement
placement_system_group_name: placement
placement_system_comment: placement system user
placement_system_shell: /bin/false
placement_system_user_home: "/var/lib/{{ placement_system_user_name }}"

# API
placement_bind_address: "{{ openstack_service_bind_address | default('0.0.
→0.0') }}"
placement_service_port: 8780

# UWSGI
placement_wsgi_processes_max: 16
placement_wsgi_processes: "{{ [(ansible_processor_vcpus//ansible_
→processor_threads_per_core)|default(1), 1] | max * 2, placement_wsgi_
→processes_max] | min }}"
placement_wsgi_threads: 1

## Service Type and Data
placement_service_region: RegionOne
placement_service_name: placement
placement_service_proto: http
placement_service_registry_proto: "{{ placement_service_proto }}"
placement_service_publicuri_proto: "{{ openstack_service_publicuri_proto |
→default(placement_service_proto) }}"
placement_service_adminuri_proto: "{{ openstack_service_adminuri_proto |
→default(placement_service_proto) }}"
placement_service_internaluri_proto: "{{ openstack_service_internaluri_
→proto | default(placement_service_proto) }}"
placement_service_type: placement
placement_service_description: "Placement Service"
placement_service_user_name: placement
placement_service_project_name: service
placement_service_project_domain_id: default
placement_service_user_domain_id: default
placement_service_publicurl: "{{ placement_service_publicuri_proto }}://{{
→external_lb_vip_address }}:{{ placement_service_port }}"
placement_service_internalurl: "{{ placement_service_internaluri_proto }}:/
→/{{ internal_lb_vip_address }}:{{ placement_service_port }}"
placement_service_adminurl: "{{ placement_service_adminuri_proto }}://{{
→internal_lb_vip_address }}:{{ placement_service_port }}"
placement_service_in_ldap: false

placement_auth_strategy: keystone

## Keystone authentication middleware
placement_keystone_auth_type: password
placement_role_name: admin

```

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```
# Common pip packages
placement_pip_packages:
  - openstack-placement
  - PyMySQL
  - pymemcache
  - python-memcached
  - cryptography
  - systemd-python

# Memcached override
placement_memcached_servers: "{{ memcached_servers }}"

## Service Name-Group Mapping
placement_services:
  placement-api:
    group: placement_api
    service_name: placement-api
    init_config_overrides: "{{ placement_api_init_overrides }}"
    start_order: 1
    wsgi_app: True
    wsgi_name: placement-api
    uwsgi_overrides: "{{ placement_api_uwsgi_ini_overrides }}"
    uwsgi_bind_address: "{{ placement_bind_address }}"
    uwsgi_port: "{{ placement_service_port }}"

## Tunable overrides
placement_api_uwsgi_ini_overrides: {}
placement_api_init_overrides: {}
placement_placement_conf_overrides: {}
```





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**CHAPTER  
TWO**

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**DEPENDENCIES**



## EXAMPLE PLAYBOOK

```
- name: Install placement components
hosts: placement_all
gather_facts: "{{ osa_gather_facts | default(True) }}"
environment: "{{ deployment_environment_variables | default({}) }}"
user: root
tags:
  - placement
roles:
  - role: "os_placement"
  - role: "system_crontab_coordination"
    tags:
      - crontab
```