
OpenStack-Ansible Documentation: os_placement role

Release 0.1.0.dev135

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May 03, 2023

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DEFAULT VARIABLES

```
# Set installation method
placement_install_method: "{{ service_install_method | default('source') }}"
placement_venv_python_executable: "{{ openstack_venv_python_executable |
↳default('python3') }}"

# Set the package install state for distribution packages
# Options are 'present' and 'latest'
placement_package_state: "{{ package_state | default('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_facts['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:
  - "--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_facts['python']['executable'])) }}"
```

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```

placement_galera_address: "{{ galera_address | default('127.0.0.1') }}"
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('') }}"
placement_galera_port: "{{ galera_port | default('3306') }}"
placement_db_max_overflow: "{{ openstack_db_max_overflow | default('50') }}"
placement_db_max_pool_size: "{{ openstack_db_max_pool_size | default('5') }}"
placement_db_pool_timeout: "{{ openstack_db_pool_timeout | default('30') }}"
placement_db_connection_recycle_time: "{{ openstack_db_connection_recycle_
↪time | default('600') }}"

## 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_facts['processor_vcpus']//ansible_
↪facts['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: "{{ service_region | default('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 }}"

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```

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: "{{ service_ldap_backend_enabled | default(False) }
↳}"

# List of roles assigned to placement_service_user_name
placement_service_role_names:
  - admin
  - service

# List of roles for which service tokens will be accepted
placement_service_token_roles:
  - service

placement_service_token_roles_required: "{{ openstack_service_token_roles_
↳required | default(True) }}"

placement_auth_strategy: keystone

## Keystone authentication middleware
placement_keystone_auth_type: password

# Common pip packages
placement_pip_packages:
  - "git+{{ placement_git_repo }}@{{ placement_git_install_branch }}
↳#egg=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 }}"

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

**CHAPTER
TWO**

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: "openstack.osa.system_crontab_coordination"
      tags:
        - crontab
```