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# **OpenStack-Ansible Documentation:**

## **os\_tacker role**

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**tags** openstack, tacker, cloud, ansible

**category** \*nix

To clone or view the source code for this repository, visit the role repository for [os\\_tacker](#).



## DEFAULT VARIABLES

```
## Verbosity Options
debug: False

#python venv executable
tacker_venv_python_executable: "{{ openstack_venv_python_executable | default(
↳'python3') }}"

# Enable/Disable Ceilometer
tacker_ceilometer_enabled: "{{ (groups['ceilometer_all'] is defined) and_
↳(groups['ceilometer_all'] | length > 0) }}"

# Set the host which will execute the shade modules
# for the service setup. The host must already have
# clouds.yaml properly configured.
tacker_service_setup_host: "{{ openstack_service_setup_host | default(
↳'localhost') }}"
tacker_service_setup_host_python_interpreter: "{{ openstack_service_setup_
↳host_python_interpreter | default((tacker_service_setup_host == 'localhost
↳') | ternary(ansible_playbook_python, ansible_facts['python']['executable
↳'])) }}"

# Set the package install state for distribution packages
# Options are 'present' and 'latest'
tacker_package_state: "{{ package_state | default('latest') }}"

tacker_git_repo: https://opendev.org/openstack/tacker
tacker_git_install_branch: master
tacker_upper_constraints_url: "{{ requirements_git_url | default('https://
↳releases.openstack.org/constraints/upper/' ~ requirements_git_install_
↳branch | default('master')) }}"
tacker_git_constraints:
  - "--constraint {{ tacker_upper_constraints_url }}"

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

# Name of the virtual env to deploy into
tacker_venv_tag: "{{ venv_tag | default('untagged') }}"
tacker_bin: "/openstack/venvs/tacker-{{ tacker_venv_tag }}/bin"
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# Set the etc dir path where tacker is installed.
# This is used for role access to the db migrations.
# Example:
# tacker_etc_dir: "/usr/local/etc/tacker"
tacker_etc_dir: "/etc/tacker"

## System info
tacker_system_user_name: tacker
tacker_system_group_name: tacker
tacker_system_shell: /bin/false
tacker_system_comment: tacker system user
tacker_system_user_home: "/var/lib/{{ tacker_system_user_name }}"

## Configuration for Oslo Messaging

# RPC
tacker_oslomsg_rpc_host_group: "{{ oslomsg_rpc_host_group | default('rabbitmq_
→all') }}"
tacker_oslomsg_rpc_setup_host: "{{ (tacker_oslomsg_rpc_host_group in groups) |
→ ternary(groups[tacker_oslomsg_rpc_host_group][0], 'localhost') }}"
tacker_oslomsg_rpc_transport: "{{ oslomsg_rpc_transport | default('rabbit') }}"
→"
tacker_oslomsg_rpc_servers: "{{ oslomsg_rpc_servers | default('127.0.0.1') }}"
tacker_oslomsg_rpc_port: "{{ oslomsg_rpc_port | default('5672') }}"
tacker_oslomsg_rpc_use_ssl: "{{ oslomsg_rpc_use_ssl | default(False) }}"
tacker_oslomsg_rpc_userid: tacker
tacker_oslomsg_rpc_vhost: /tacker
tacker_oslomsg_rpc_ssl_version: "{{ oslomsg_rpc_ssl_version | default('TLSv1_2
→') }}"
tacker_oslomsg_rpc_ssl_ca_file: "{{ oslomsg_rpc_ssl_ca_file | default('') }}"

# Notify
tacker_oslomsg_notify_host_group: "{{ oslomsg_notify_host_group | default(
→'rabbitmq_all') }}"
tacker_oslomsg_notify_setup_host: "{{ (tacker_oslomsg_notify_host_group in
→groups) | ternary(groups[tacker_oslomsg_notify_host_group][0], 'localhost') |
→ }}"
tacker_oslomsg_notify_transport: "{{ oslomsg_notify_transport | default(
→'rabbit') }}"
tacker_oslomsg_notify_servers: "{{ oslomsg_notify_servers | default('127.0.0.1
→') }}"
tacker_oslomsg_notify_port: "{{ oslomsg_notify_port | default('5672') }}"
tacker_oslomsg_notify_use_ssl: "{{ oslomsg_notify_use_ssl | default(False) }}"
tacker_oslomsg_notify_userid: "{{ tacker_oslomsg_rpc_userid }}"
tacker_oslomsg_notify_password: "{{ tacker_oslomsg_rpc_password }}"
tacker_oslomsg_notify_vhost: "{{ tacker_oslomsg_rpc_vhost }}"
tacker_oslomsg_notify_ssl_version: "{{ oslomsg_notify_ssl_version | default(
→'TLSv1_2') }}"

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tacker_oslmsg_notify_ssl_ca_file: "{{ oslmsg_notify_ssl_ca_file | default('
↳') }}"

## (Qdrouterd) integration
# TODO(ansmith): Change structure when more backends will be supported
tacker_oslmsg_amqp1_enabled: "{{ tacker_oslmsg_rpc_transport == 'amqp' }}"

tacker_optional_oslmsg_amqp1_pip_packages:
  - oslo.messaging[amqp1]

## Database info
tacker_db_setup_host: "{{ openstack_db_setup_host | default('localhost') }}"
tacker_db_setup_python_interpreter: "{{ openstack_db_setup_python_interpreter_
↳| default((tacker_db_setup_host == 'localhost') | ternary(ansible_playbook_
↳python, ansible_facts['python']['executable'])) }}"
tacker_galera_address: "{{ galera_address | default('127.0.0.1') }}"
tacker_galera_database: tacker
tacker_galera_user: tacker
tacker_galera_use_ssl: "{{ galera_use_ssl | default(False) }}"
tacker_galera_ssl_ca_cert: "{{ galera_ssl_ca_cert | default('') }}"
tacker_galera_port: "{{ galera_port | default('3306') }}"
tacker_db_max_overflow: "{{ openstack_db_max_overflow | default('50') }}"
tacker_db_max_pool_size: "{{ openstack_db_max_pool_size | default('5') }}"
tacker_db_pool_timeout: "{{ openstack_db_pool_timeout | default('30') }}"
tacker_db_connection_recycle_time: "{{ openstack_db_connection_recycle_time |
↳default('600') }}"

tacker_bind_address: "{{ openstack_service_bind_address | default('0.0.0.0') }
↳}"
tacker_service_port: 9890
tacker_program_name: tacker-server
tacker_conductor_program_name: tacker-conductor

## Service Type and Data
tacker_service_region: "{{ service_region | default('RegionOne') }}"
tacker_service_name: tacker-server
tacker_service_proto: http
tacker_service_type: nfv-orchestration
tacker_service_description: "tacker service"
tacker_service_publicuri: "{{ tacker_service_publicuri_proto }}://{{ external_
↳lb_vip_address }}:{{ tacker_service_port }}"
tacker_service_publicurl: "{{ tacker_service_publicuri }}"
tacker_service_internaluri: "{{ tacker_service_internaluri_proto }}://{{
↳internal_lb_vip_address }}:{{ tacker_service_port }}"
tacker_service_internalurl: "{{ tacker_service_internaluri }}"
tacker_service_adminuri: "{{ tacker_service_adminuri_proto }}://{{ internal_
↳lb_vip_address }}:{{ tacker_service_port }}"
tacker_service_adminurl: "{{ tacker_service_adminuri }}"
tacker_service_registry_proto: "{{ tacker_service_proto }}"

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tacker_service_publicuri_proto: "{{ openstack_service_publicuri_proto |
↳default(tacker_service_proto) }}"
tacker_service_adminuri_proto: "{{ openstack_service_adminuri_proto |
↳default(tacker_service_proto) }}"
tacker_service_internaluri_proto: "{{ openstack_service_internaluri_proto |
↳default(tacker_service_proto) }}"

tacker_services:
  tacker-server:
    group: tacker_server
    service_name: "{{ tacker_service_name }}"
    enabled: yes
    state: started
    execstarts: "{{ tacker_bin }}/{{ tacker_program_name }} {{ tacker_config_
↳options|default('') }}"
    config_overrides: "{{ tacker_init_config_overrides }}"
  tacker-conductor:
    group: tacker_server
    service_name: "{{ tacker_conductor_program_name }}"
    enabled: yes
    state: started
    execstarts: "{{ tacker_bin }}/{{ tacker_conductor_program_name }} {{
↳tacker_conductor_config_options|default('') }}"
    config_overrides: "{{ tacker_conductor_init_config_overrides }}"

## Barbican service
barbican_keys_backend: false

#NOTE: move password to tests/test-vars.yml
tacker_service_password: password

## Keystone
tacker_service_project_domain_id: default
tacker_service_project_name: service
tacker_service_user_domain_id: default
tacker_service_user_name: tacker
tacker_keystone_auth_plugin: password
tacker_service_role_names:
  - admin
  - service
tacker_service_token_roles:
  - service
tacker_service_token_roles_required: "{{ openstack_service_token_roles_
↳required | default(True) }}"

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

## Common pip packages
tacker_pip_packages:

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```

- networking-sfc
- osprofiler
- PyMySQL
- python-heatclient
- python-tackerclient
- systemd-python
- "git+{{ tacker_git_repo }}@{{ tacker_git_install_branch }}#egg=tacker"

tacker_config_options: --config-file {{ tacker_etc_dir }}/tacker.conf
tacker_conductor_config_options: "{{ tacker_config_options }}"
tacker_init_config_overrides: {}
tacker_conductor_init_config_overrides: {}

## tacker config
tacker_heat_stack_retires: 60
tacker_heat_stack_retry_wait: 5

# heat service paramter for tacker.conf
heat_service_adminurl: "{{ tacker_service_publicuri_proto }}://{{ external_lb_
↪vip_address }}:8004/v1"

## Tunable overrides
tacker_tacker_conf_overrides: {}
tacker_api_paste_ini_overrides: {}
tacker_policy_overrides: {}
tacker_rootwrap_overrides: {}

###
### Backend TLS
###

# Define if communication between haproxy and service backends should be
# encrypted with TLS.
tacker_backend_ssl: "{{ openstack_service_backend_ssl | default(False) }}"

# Storage location for SSL certificate authority
tacker_pki_dir: "{{ openstack_pki_dir | default('/etc/openstack_deploy/pki') }
↪}"

# Delegated host for operating the certificate authority
tacker_pki_setup_host: "{{ openstack_pki_setup_host | default('localhost') }}"

# tacker server certificate
tacker_pki_keys_path: "{{ tacker_pki_dir ~ '/certs/private/' }}"
tacker_pki_certs_path: "{{ tacker_pki_dir ~ '/certs/certs/' }}"
tacker_pki_intermediate_cert_name: "{{ openstack_pki_service_intermediate_
↪cert_name | default('ExampleCorpIntermediate') }}"
tacker_pki_regen_cert: ''
tacker_pki_san: "{{ openstack_pki_san | default('DNS:' ~ ansible_facts[
↪'hostname'] ~ ',IP:' ~ management_address) }}"

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```
tacker_pki_certificates:
  - name: "tacker_{{ ansible_facts['hostname'] }}"
    provider: ownca
    cn: "{{ ansible_facts['hostname'] }}"
    san: "{{ tacker_pki_san }}"
    signed_by: "{{ tacker_pki_intermediate_cert_name }}"

# tacker destination files for SSL certificates
tacker_ssl_cert: /etc/tacker/tacker.pem
tacker_ssl_key: /etc/tacker/tacker.key

# Installation details for SSL certificates
tacker_pki_install_certificates:
  - src: "{{ tacker_user_ssl_cert | default(tacker_pki_certs_path ~ 'tacker_' ~
↳ ansible_facts['hostname'] ~ '-chain.crt') }}"
    dest: "{{ tacker_ssl_cert }}"
    owner: "{{ tacker_system_user_name }}"
    group: "{{ tacker_system_user_name }}"
    mode: "0644"
  - src: "{{ tacker_user_ssl_key | default(tacker_pki_keys_path ~ 'tacker_' ~
↳ ansible_facts['hostname'] ~ '.key.pem') }}"
    dest: "{{ tacker_ssl_key }}"
    owner: "{{ tacker_system_user_name }}"
    group: "{{ tacker_system_user_name }}"
    mode: "0600"

# Define user-provided SSL certificates
#tacker_user_ssl_cert: <path to cert on ansible deployment host>
#tacker_user_ssl_key: <path to cert on ansible deployment host>
```

## DEPENDENCIES

This role needs pip  $\geq 7.1$  installed on the target host.



## EXAMPLE PLAYBOOK

```
---  
- name: Install tacker server  
  hosts: tacker_all  
  user: root  
  roles:  
    - { role: "os_tacker", tags: [ "os-tacker" ] }
```





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**CHAPTER  
FOUR**

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**TAGS**

<TODO>