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# **OpenStack-Ansible Documentation:**

## **os\_masakari role**

*Release 0.1.0.dev239*

**OpenStack-Ansible Contributors**

**Jan 13, 2025**



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**tags**

openstack, masakari, cloud, ansible

**category**

\*nix

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



## DEFAULT VARIABLES

```
## Verbosity Options
debug: False

# Set the host which will execute the shade modules
# for the service setup. The host must already have
# clouds.yaml properly configured.
masakari_service_setup_host: "{{ openstack_service_setup_host | default(
  ↳'localhost') }}"
masakari_service_setup_host_python_interpreter: >-
  {{
    openstack_service_setup_host_python_interpreter | default(
      (masakari_service_setup_host == 'localhost') | ternary(ansible_playbook_
↳python, ansible_python['executable']))
  }}
masakari_venv_python_executable: "{{ openstack_venv_python_executable |
↳default('python3') }}"

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

masakari_git_repo: https://opendev.org/openstack/masakari
masakari_monitors_git_repo: https://opendev.org/openstack/masakari-monitors
masakari_git_install_branch: master
masakari_monitors_git_install_branch: master
masakari_upper_constraints_url: >-
  {{ requirements_git_url | default('https://releases.openstack.org/
↳constraints/upper/' ~ requirements_git_install_branch | default('master')) }
↳}
masakari_git_constraints:
  - "--constraint {{ masakari_upper_constraints_url }}"

## System info
masakari_system_user_name: masakari
masakari_system_group_name: masakari
masakari_system_shell: /bin/false
masakari_system_comment: masakari system user
masakari_system_user_home: "/var/lib/{{ masakari_system_user_name }}"
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## Database credentials
masakari_db_setup_host: "{{ openstack_db_setup_host | default('localhost') }}"
masakari_db_setup_python_interpreter: >-
  {{
    openstack_db_setup_python_interpreter | default(
      (masakari_db_setup_host == 'localhost') | ternary(ansible_playbook_
->python, ansible_facts['python']['executable']))
  }}
masakari_galera_address: "{{ galera_address | default('127.0.0.1') }}"
masakari_galera_database: masakari
masakari_galera_user: masakari
masakari_galera_use_ssl: "{{ galera_use_ssl | default(False) }}"
masakari_galera_ssl_ca_cert: "{{ galera_ssl_ca_cert | default('') }}"
masakari_galera_port: "{{ galera_port | default('3306') }}"
masakari_db_max_overflow: "{{ openstack_db_max_overflow | default('50') }}"
masakari_db_max_pool_size: "{{ openstack_db_max_pool_size | default('5') }}"
masakari_db_pool_timeout: "{{ openstack_db_pool_timeout | default('30') }}"
masakari_db_connection_recycle_time: "{{ openstack_db_connection_recycle_time_
->| default('600') }}"

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

# Name of the virtual env to deploy into
masakari_venv_tag: "{{ venv_tag | default('untagged') }}"
masakari_bin: "/openstack/venvs/masakari-{{ masakari_venv_tag }}/bin"

# Common pip packages
masakari_pip_packages:
  - cryptography
  - "git+{{ masakari_git_repo }}@{{ masakari_git_install_branch }}"
->#egg=masakari"
  - masakari
  - keystonemiddleware
  - osprofiler
  - PyMySQL
  - pymemcache
  - python-masakariclient
  - python-novaclient
  - python-keystoneclient
  - python-memcached
  - python-swiftclient
  - systemd-python
  - uwsgi
  - keystoneauth1

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

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masakari_monitor_pip_packages:
  - "git+{{ masakari_monitors_git_repo }}@{{ masakari_monitors_git_install_
    ↳branch }}#egg=masakari-monitors"
  - systemd-python

## Tunable overrides
masakari_api_paste_ini_overrides: {}
masakari_masakari_conf_overrides: {}
masakari_policy_json_overrides: {}
masakari_policy_overrides: "{{ masakari_policy_json_overrides }}"
masakari_api_init_overrides: {}
masakari_engine_init_overrides: {}
masakari_monitors_conf_overrides: {}
masakari_monitors_process_overrides: {}
masakari_monitors_init_overrides: {}

## Service Type and Data
masakari_service_region: "{{ service_region | default('RegionOne') }}"
masakari_service_name: masakari
masakari_service_port: 15868
masakari_service_proto: http
masakari_service_registry_proto: "{{ masakari_service_proto }}"
masakari_service_publicuri_proto: "{{ openstack_service_publicuri_proto |
    ↳default(masakari_service_proto) }}"
masakari_service_adminuri_proto: "{{ openstack_service_adminuri_proto |
    ↳default(masakari_service_proto) }}"
masakari_service_internaluri_proto: "{{ openstack_service_internaluri_proto |
    ↳default(masakari_service_proto) }}"
masakari_service_type: instance-ha
masakari_service_description: "Masakari ha Service"
masakari_service_user_name: masakari
masakari_service_project_name: service
masakari_service_project_domain_id: default
masakari_service_user_domain_id: default
masakari_service_publicuri: "{{ masakari_service_publicuri_proto }}://{{
    ↳external_lb_vip_address }}:{{ masakari_service_port }}"
masakari_service_publicurl: "{{ masakari_service_publicuri }}/v1/(tenant_id)s
    ↳"
masakari_service_internaluri: "{{ masakari_service_internaluri_proto }}://{{
    ↳internal_lb_vip_address }}:{{ masakari_service_port }}"
masakari_service_internalurl: "{{ masakari_service_internaluri }}/v1/(tenant_
    ↳id)s"
masakari_service_adminuri: "{{ masakari_service_adminuri_proto }}://{{
    ↳internal_lb_vip_address }}:{{ masakari_service_port }}"
masakari_service_adminurl: "{{ masakari_service_adminuri }}/v1/(tenant_id)s"

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

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masakari_service_role_names:
  - admin
  - service
masakari_service_token_roles:
  - service
masakari_service_token_roles_required: "{{ openstack_service_token_roles_
  ↳required | default(True) }}"
masakari_api_bind_address: "{{ openstack_service_bind_address | default('0.0.
  ↳0.0') }}"
masakari_api_service_port: 15868

## API options
masakari_enable_v1_api: True

masakari_etc_dir: /etc/masakari
masakari_monitor_etc_dir: /etc/masakarimonitors
masakari_config_options: --config-file {{ masakari_etc_dir }}/masakari.conf

## Services
masakari_services:
  masakari-api:
    group: masakari_api
    service_name: masakari-api
    execstarts: "{{ masakari_bin }}/masakari-api"
    config_overrides: "{{ masakari_api_init_overrides }}"
  masakari-engine:
    group: masakari_engine
    service_name: masakari-engine
    execstarts: "{{ masakari_bin }}/masakari-engine"
    config_overrides: "{{ masakari_engine_init_overrides }}"
  masakari-hostmonitor:
    group: masakari_monitor
    service_name: masakari-hostmonitor
    execstarts: "{{ masakari_bin }}/masakari-hostmonitor"
    config_overrides: "{{ masakari_monitors_init_overrides }}"
  masakari-instancemonitor:
    group: masakari_monitor
    service_name: masakari-instancemonitor
    execstarts: "{{ masakari_bin }}/masakari-instancemonitor"
    config_overrides: "{{ masakari_monitors_init_overrides }}"
  masakari-introspectiveinstancemonitor:
    group: masakari_monitor
    service_name: masakari-introspectiveinstancemonitor
    execstarts: "{{ masakari_bin }}/masakari-introspectiveinstancemonitor"
    config_overrides: "{{ masakari_monitors_init_overrides }}"
  masakari-processmonitor:
    group: masakari_monitor
    service_name: masakari-processmonitor
    execstarts: "{{ masakari_bin }}/masakari-processmonitor"

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    config_overrides: "{{ masakari_monitors_init_overrides }}"

## Configuration for Oslo Messaging

# RPC
masakari_oslmsg_rpc_host_group: "{{ oslmsg_rpc_host_group | default(
    ↪'rabbitmq_all') }}"
masakari_oslmsg_rpc_setup_host: "{{ (masakari_oslmsg_rpc_host_group in
    ↪groups) | ternary(groups[magakari_oslmsg_rpc_host_group][0], 'localhost') }
    ↪}"
masakari_oslmsg_rpc_transport: "{{ oslmsg_rpc_transport | default('rabbit')
    ↪ }}"
masakari_oslmsg_rpc_servers: "{{ oslmsg_rpc_servers | default('127.0.0.1') }
    ↪}"
masakari_oslmsg_rpc_port: "{{ oslmsg_rpc_port | default('5672') }}"
masakari_oslmsg_rpc_use_ssl: "{{ oslmsg_rpc_use_ssl | default(False) }}"
masakari_oslmsg_rpc_userid: masakari
masakari_oslmsg_rpc_policies: []
# vhost name depends on value of oslmsg_rabbit_quorum_queues. In case quorum
    ↪queues
# are not used - vhost name will be prefixed with leading `/.
masakari_oslmsg_rpc_vhost:
  - name: /masakari
    state: "{{ masakari_oslmsg_rabbit_quorum_queues | ternary('absent',
    ↪'present') }}"
  - name: masakari
    state: "{{ masakari_oslmsg_rabbit_quorum_queues | ternary('present',
    ↪'absent') }}"
masakari_oslmsg_rpc_ssl_version: "{{ oslmsg_rpc_ssl_version | default(
    ↪'TLSv1_2') }}"
masakari_oslmsg_rpc_ssl_ca_file: "{{ oslmsg_rpc_ssl_ca_file | default('') }
    ↪}"

# Notify
masakari_oslmsg_notify_configure: "{{ oslmsg_notify_configure |
    ↪default(False) }}"
masakari_oslmsg_notify_host_group: "{{ oslmsg_notify_host_group | default(
    ↪'rabbitmq_all') }}"
masakari_oslmsg_notify_setup_host: >-
  {{ (masakari_oslmsg_notify_host_group in groups) | ternary(groups[magakari_
    ↪oslmsg_notify_host_group][0], 'localhost') }}
masakari_oslmsg_notify_transport: "{{ oslmsg_notify_transport | default(
    ↪'rabbit') }}"
masakari_oslmsg_notify_servers: "{{ oslmsg_notify_servers | default('127.0.
    ↪0.1') }}"
masakari_oslmsg_notify_port: "{{ oslmsg_notify_port | default('5672') }}"
masakari_oslmsg_notify_use_ssl: "{{ oslmsg_notify_use_ssl | default(False) }
    ↪}"
masakari_oslmsg_notify_userid: "{{ masakari_oslmsg_rpc_userid }}"

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masakari_oslmsg_notify_password: "{{ masakari_oslmsg_rpc_password }}"
masakari_oslmsg_notify_vhost: "{{ masakari_oslmsg_rpc_vhost }}"
masakari_oslmsg_notify_ssl_version: "{{ oslmsg_notify_ssl_version | default(
  ↪'TLSv1_2') }}"
masakari_oslmsg_notify_ssl_ca_file: "{{ oslmsg_notify_ssl_ca_file | default(
  ↪'') }}"
masakari_oslmsg_notify_policies: []

## RabbitMQ integration
masakari_oslmsg_rabbit_quorum_queues: "{{ oslmsg_rabbit_quorum_queues |
  ↪default(True) }}"
masakari_oslmsg_rabbit_stream_fanout: "{{ oslmsg_rabbit_stream_fanout |
  ↪default(masakari_oslmsg_rabbit_quorum_queues) }}"
masakari_oslmsg_rabbit_transient_quorum_queues: "{{ oslmsg_rabbit_transient_
  ↪quorum_queues | default(masakari_oslmsg_rabbit_stream_fanout) }}"
masakari_oslmsg_rabbit_qos_prefetch_count: "{{ oslmsg_rabbit_qos_prefetch_
  ↪count | default(masakari_oslmsg_rabbit_stream_fanout | ternary(10, 0)) }}"
masakari_oslmsg_rabbit_queue_manager: "{{ oslmsg_rabbit_queue_manager |
  ↪default(masakari_oslmsg_rabbit_quorum_queues) }}"
masakari_oslmsg_rabbit_quorum_delivery_limit: "{{ oslmsg_rabbit_quorum_
  ↪delivery_limit | default(0) }}"
masakari_oslmsg_rabbit_quorum_max_memory_bytes: "{{ oslmsg_rabbit_quorum_
  ↪max_memory_bytes | default(0) }}"

# The multicast interface used by corocync for masakari hostmonitor
masakari_monitor_corosync_multicast_interface: "br-mgmt"
masakari_monitor_corosync_multicast_ports: 5405
masakari_monitor_corosync_ipmi_check: False

###
### Backend TLS
###

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

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

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

# masakari server certificate
masakari_pki_keys_path: "{{ masakari_pki_dir ~ '/certs/private/' }}"
masakari_pki_certs_path: "{{ masakari_pki_dir ~ '/certs/certs/' }}"
masakari_pki_intermediate_cert_name: "{{ openstack_pki_service_intermediate_

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```
↪cert_name | default('ExampleCorpIntermediate') }}"
masakari_pki_regen_cert: ''
masakari_pki_san: "{{ openstack_pki_san | default('DNS:' ~ ansible_facts[
↪'hostname'] ~ ',IP:' ~ management_address) }}"
masakari_pki_certificates:
- name: "masakari-{{ ansible_facts['hostname'] }}"
  provider: ownca
  cn: "{{ ansible_facts['hostname'] }}"
  san: "{{ masakari_pki_san }}"
  signed_by: "{{ masakari_pki_intermediate_cert_name }}"

# masakari destination files for SSL certificates
masakari_ssl_cert: /etc/masakari/masakari.pem
masakari_ssl_key: /etc/masakari/masakari.key

# Installation details for SSL certificates
masakari_pki_install_certificates:
- src: "{{ masakari_user_ssl_cert | default(masakari_pki_certs_path ~
↪'masakari_' ~ ansible_facts['hostname'] ~ '-chain.crt') }}"
  dest: "{{ masakari_ssl_cert }}"
  owner: "{{ masakari_system_user_name }}"
  group: "{{ masakari_system_user_name }}"
  mode: "0644"
- src: "{{ masakari_user_ssl_key | default(masakari_pki_keys_path ~
↪'masakari_' ~ ansible_facts['hostname'] ~ '.key.pem') }}"
  dest: "{{ masakari_ssl_key }}"
  owner: "{{ masakari_system_user_name }}"
  group: "{{ masakari_system_user_name }}"
  mode: "0600"

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



## DEPENDENCIES

<TODO>





## EXAMPLE PLAYBOOK

```
---  
- name: Install masakari  
  hosts: masakari_all  
  user: root  
  roles:  
    - role: "os_masakari"  
      tags: "os-masakari"  
  vars:  
    external_lb_vip_address: 10.232.48.205  
    internal_lb_vip_address: 172.29.236.100  
    masakari_galera_address: "{{ internal_lb_vip_address }}"
```



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**CHAPTER  
FOUR**

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**TAGS**

<TODO>