





undercloud node      stack

```
[root@osp-director ~]# useradd stack
[root@osp-director ~]# passwd stack
[root@osp-director ~]# echo "stack ALL=(root) NOPASSWD:ALL" | tee -a
/etc/sudoers.d/stack
stack ALL=(root) NOPASSWD:ALL
[root@osp-director ~]# chmod 0440 /etc/sudoers.d/stack
```

undercloud node      FQDN

```
[root@osp-director ~]# hostnamectl set-hostname osp-director.local.com
[root@osp-director ~]# hostnamectl
  Static hostname: osp-director.local.com
            Icon name: computer-vm
            Chassis: vm
            Machine ID: dd2b112292874ace925a58b7a83c4254
            Boot ID: 15ba823406d448ab9278803e2498bbba
  Virtualization: kvm
  Operating System: Red Hat Enterprise Linux Server 7.7 (Maipo)
    CPE OS Name: cpe:/o:redhat:enterprise_linux:7.7:GA:server
            Kernel: Linux 3.10.0-1062.7.1.el7.x86_64
  Architecture: x86-64
```

stack

```
[root@osp-director ~]# su - stack
[stack@osp-director ~]$
```

python-tripleoclient

```
[stack@osp-director ~]$ sudo yum install -y python-tripleoclient
```

가 , undercloud.conf

```
[stack@osp-director ~]$ cp /usr/share/instack-
undercloud/undercloud.conf.sample ~/undercloud.conf
[stack@osp-director ~]$ vim undercloud.conf
```

undercloud.conf

```
[DEFAULT]
image_path = /home/stack/images
## undercloud      FQDN
undercloud_hostname = osp-director.local.com
```

```
## SSL/TLS          API IP    SSL/TLS          IP
undercloud_public_host = 10.10.10.9

## SSL/TLS          API IP
undercloud_admin_host = 10.10.10.8

# #                IP
undercloud_ntp_servers = 10.10.10.1

## undercloud      IP, PXE          IP, eth0  IP
local_ip = 10.10.10.10/24

## undercloud      NIC
local_interface = eth0

## local_interface MTU
local_mtu = 1500

## undercloud      introspection      ,      br-ctlplane
inspection_interface = br-ctlplane

overcloud_domain_name = local.com
generate_service_certificate = false
enable_ui = true

[auth]
undercloud_admin_password = redhat
undercloud_haproxy_stats_password = redhat

[ctlplane-subnet]
cidr = 10.10.10.10/24
dhcp_start = 10.10.10.5
dhcp_end = 10.10.10.50
inspection_iprange = 10.10.10.100,10.10.10.120
gateway = 10.10.10.1
masquerade = true
```

undercloud

```
[stack@osp-director ~]$ openstack undercloud install -y
....
2019-12-03 14:37:12,270 INFO: Created flavor "baremetal" with profile "None"
2019-12-03 14:37:12,341 INFO: Created flavor "control" with profile
"control"
2019-12-03 14:37:15,998 INFO: Created flavor "compute" with profile
"compute"
2019-12-03 14:37:16,050 INFO: Created flavor "ceph-storage" with profile
"ceph-storage"
2019-12-03 14:37:16,100 INFO: Created flavor "block-storage" with profile
"block-storage"
```

```

2019-12-03 14:37:16,152 INFO: Created flavor "swift-storage" with profile
"swift-storage"
2019-12-03 14:37:16,152 INFO: Configuring Mistral workbooks
2019-12-03 14:37:29,212 INFO: Mistral workbooks configured successfully
2019-12-03 14:38:25,268 INFO: Configuring an hourly cron trigger for
tripleo-ui logging
2019-12-03 14:38:26,300 INFO:
#####
#
Undercloud install complete.

```

The file containing this installation's passwords is at /home/stack/undercloud-passwords.conf.

There is also a stackrc file at /home/stack/stackrc.

These files are needed to interact with the OpenStack services, and should be secured.

```
#####
#
```

undercloud

```

[stack@osp-director ~]$ ls
stackrc  undercloud.conf  undercloud.conf.bak  undercloud-passwords.conf

```

undercloud

```

[stack@osp-director ~]$ sudo systemctl list-units openstack-*
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION
openstack-glance-api.service        loaded active running OpenStack
Image Service (code-named Glance) API server
openstack-heat-engine.service        loaded active running Openstack
Heat Engine Service
openstack-ironic-conductor.service   loaded active running OpenStack
Ironic Conductor service
openstack-ironic-inspector-dnsmasq.service loaded active running PXE boot
dnsmasq service for Ironic Inspector
openstack-ironic-inspector.service   loaded active running Hardware
introspection service for OpenStack Ironic
openstack-mistral-api.service         loaded active running Mistral
API Server

```

```
openstack-mistral-engine.service      loaded active running Mistral
Engine Server
openstack-mistral-executor.service   loaded active running Mistral
Executor Server
openstack-nova-api.service           loaded active running OpenStack
Nova API Server
openstack-nova-compute.service       loaded active running OpenStack
Nova Compute Server
openstack-nova-conductor.service     loaded active running OpenStack
Nova Conductor Server
openstack-nova-scheduler.service     loaded active running OpenStack
Nova Scheduler Server
openstack-swift-account-reaper.service loaded active running OpenStack
Object Storage (swift) - Account Reaper
openstack-swift-account.service      loaded active running OpenStack
Object Storage (swift) - Account Server
openstack-swift-container-sync.service loaded active running OpenStack
Object Storage (swift) - Container Sync
openstack-swift-container-updater.service loaded active running OpenStack
Object Storage (swift) - Container Updater
openstack-swift-container.service    loaded active running OpenStack
Object Storage (swift) - Container Server
openstack-swift-object-expirer.service loaded active running OpenStack
Object Storage (swift) - Object Expirer
openstack-swift-object-reconstructor.service loaded active running OpenStack
Object Storage (swift) - Object Reconstructor
openstack-swift-object-updater.service loaded active running OpenStack
Object Storage (swift) - Object Updater
openstack-swift-object.service       loaded active running OpenStack
Object Storage (swift) - Object Server
openstack-swift-proxy.service        loaded active running OpenStack
Object Storage (swift) - Proxy Server
openstack-zaqar@1.service            loaded active running OpenStack
Message Queuing Service (code-named Zaqar) Server Instance 1
```

LOAD = Reflects whether the unit definition was properly loaded.  
ACTIVE = The high-level unit activation state, i.e. generalization of SUB.  
SUB = The low-level unit activation state, values depend on unit type.

23 loaded units listed. Pass --all to see loaded but inactive units, too.  
To show all installed unit files use 'systemctl list-unit-files'.

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