

**Overcloud** ..... 7



- OerCloud Image Upload

```
(undercloud) [stack@osp-director ~]$ mkdir ~/images
(undercloud) [stack@osp-director ~]$ sudo yum install rhosp-director-images
rhosp-director-images-ipa -y
(undercloud) [stack@osp-director ~]$ cd ~/images
```

- images

```
# for i in /usr/share/rhosp-director-images/overcloud-full-latest-13.0.tar
/usr/share/rhosp-director-images/ironic-python-agent-latest-13.0.tar; do tar
-xvf $i; done
overcloud-full.qcow2
overcloud-full.initrd
overcloud-full.vmlinuz
overcloud-full-rpm.manifest
overcloud-full-signature.manifest
ironic-python-agent.initramfs
ironic-python-agent.kernel
```

- qcow                                    libguestfs-tools-c

```
## overcloud-full.qcow2    root
(undercloud) [stack@osp-director images]$ virt-customize -a
~/images/overcloud-full.qcow2 --root-password password:redhat
[  0.0] Examining the guest ...
[ 17.9] Setting a random seed
[ 17.9] Setting the machine ID in /etc/machine-id
[ 17.9] Setting passwords
[ 19.6] Finishing off
```

- OverCloud Image

```
(undercloud) [stack@osp-director images]$ openstack overcloud image upload -
-image-path /home/stack/images/
Image "overcloud-full-vmlinuz" was uploaded.
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
|           ID           |           Name           | Disk |
Format | Size | Status |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
| d8a6d69b-acc6-49a9-a50c-52da04df8109 | overcloud-full-vmlinuz | aki |
| 6734128 | active |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
Image "overcloud-full-initrd" was uploaded.
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+
```

```

|          ID          |          Name          | Disk Format |
|  Size  | Status |
+-----+-----+-----+-----+
-+-----+-----+
| 440a8ca0-5c66-4a3d-9d4d-ac43f99ee05b | overcloud-full-initrd |   ari   |
| 66976521 | active |
+-----+-----+-----+-----+
-+-----+-----+
Image "overcloud-full" was uploaded.
+-----+-----+-----+-----+
-----+-----+
|          ID          |          Name          | Disk Format |
Size  | Status |
+-----+-----+-----+-----+
-----+-----+
| 60a5279e-fabf-4bdc-b76a-cb8236cb4776 | overcloud-full |   qcow2  |
1508179968 | active |
+-----+-----+-----+-----+
-----+-----+
Image "bm-deploy-kernel" was uploaded.
+-----+-----+-----+-----+
-----+-----+
|          ID          |          Name          | Disk Format |
Size  | Status |
+-----+-----+-----+-----+
-----+-----+
| 2a5d6a15-425f-4413-a737-d7483f513cf5 | bm-deploy-kernel |   aki   |
6734128 | active |
+-----+-----+-----+-----+
-----+-----+
Image "bm-deploy-ramdisk" was uploaded.
+-----+-----+-----+-----+
-----+-----+
|          ID          |          Name          | Disk Format |
Size  | Status |
+-----+-----+-----+-----+
-----+-----+
| ef1348d5-f250-498d-a430-2acb37a9e617 | bm-deploy-ramdisk |   ari   |
466121877 | active |
+-----+-----+-----+-----+
-----+-----+

```

- upload

```

(undercloud) [stack@osp-director images]$ ls
ironic-python-agent.initramfs  overcloud-full.initrd  overcloud-full-
rpm.manifest                  overcloud-full.vmlinuz
ironic-python-agent.kernel    overcloud-full.qcow2   overcloud-full-
signature.manifest

```

```
(undercloud) [stack@osp-director images]$ openstack image list
+-----+-----+-----+
| ID                | Name                | Status |
+-----+-----+-----+
| 2a5d6a15-425f-4413-a737-d7483f513cf5 | bm-deploy-kernel    | active |
| ef1348d5-f250-498d-a430-2acb37a9e617 | bm-deploy-ramdisk   | active |
| 60a5279e-fabf-4bdc-b76a-cb8236cb4776 | overcloud-full      | active |
| 440a8ca0-5c66-4a3d-9d4d-ac43f99ee05b | overcloud-full-initrd | active |
| d8a6d69b-acc6-49a9-a50c-52da04df8109 | overcloud-full-vmlinuz | active |
+-----+-----+-----+
```

```
(undercloud) [stack@osp-director images]$ ls -l /httpboot
total 461788
-rwxr-xr-x. 1 root          root          6734128 Dec  6 16:15
agent.kernel
-rw-r--r--. 1 root          root          466121877 Dec  6 16:15
agent.ramdisk
-rw-r--r--. 1 ironic        ironic         758 Dec  6 15:53
boot.ipxe
-rw-r--r--. 1 ironic-inspector ironic-inspector 467 Dec  6 15:49
inspector.ipxe
```

•

```
(undercloud) [stack@jy-director ~]$ mkdir templates

openstack overcloud container image prepare \
  --namespace=registry.access.redhat.com/rhosp13 \
  --push-destination=10.10.10.10:8787 \
  --prefix=openstack- \
  --tag-from-label {version}-{release} \
  --output-env-file=/home/stack/templates/overcloud_images.yaml \
  --output-images-file /home/stack/local_registry_images.yaml

sudo openstack overcloud container image upload \
  --config-file /home/stack/local_registry_images.yaml \
  --verbose
```

•

```
(undercloud) [stack@osp-director ~]$ curl
http://10.10.10.10:8787/v2/_catalog | jq .repositories[]
 % Total    % Received % Xferd  Average Speed   Time    Time     Time
Current
                                Dload  Upload  Total  Spent  Left
Speed
100 1502 100 1502    0    0  178k    0 --:--:-- --:--:-- --:--:--
209k
"rhosp13/openstack-aodh-api"
```

```
"rhosp13/openstack-aodh-evaluator"  
"rhosp13/openstack-aodh-listener"  
"rhosp13/openstack-aodh-notifier"  
"rhosp13/openstack-ceilometer-central"  
"rhosp13/openstack-ceilometer-compute"  
...
```

- DNS sub-net

```
(undercloud) [stack@osp-director images]$ openstack subnet set --dns-  
nameserver 8.8.8.8 ctlplane-subnet  
(undercloud) [stack@osp-director images]$ openstack subnet show ctlplane-  
subnet
```

```
+-----+-----+  
--+  
| Field          | Value  
|  
+-----+-----+  
--+  
| allocation_pools | 10.10.10.5-10.10.10.25  
| cidr            | 10.10.10.0/24  
| created_at      | 2019-12-03T05:37:04Z  
| description     |  
| dns_nameservers | 8.8.8.8  
| enable_dhcp     | True  
| gateway_ip      | 10.10.10.1  
| host_routes     | destination='169.254.169.254/32',  
gateway='10.10.10.10' |  
| id              | b6e9c70b-791a-493f-a99d-721571fb345f  
| ip_version      | 4  
| ipv6_address_mode | None  
| ipv6_ra_mode    | None  
| name            | ctlplane-subnet  
| network_id      | f31f42c8-e2f9-43ef-9810-b562918b5569  
| prefix_length   | None  
| project_id      | 29533fc9937e471eba1834f50cd3ccbd
```

```

|
| revision_number      | 1
| segment_id          | None
| service_types       |
| subnetpool_id       | None
| tags                 |
| updated_at           | 2019-12-03T06:35:36Z
|
+-----+-----+
--+
```

## Overcloud

- overcloud node `instackenv.json`

```
(undercloud) [stack@osp-director ~]$ vim instackenv.json
```

- instackenv.json
- node `. mac , ipmi(PXE) , ipmi`

```

{
  "nodes": [
    {
      "mac": [
        "52:54:00:3a:f9:af"
      ],
      "name": "jy-osp0-compute",
      "pm_type": "pxe_ipmitool",
      "pm_user": "admin",
      "pm_password": "password",
      "pm_addr": "10.10.10.1",
      "pm_port": "7005"
    },
    {
      "mac": [
        "52:54:00:61:6f:56"
      ],
      "name": "jy-osp0-controller",
      "pm_type": "pxe_ipmitool",
      "pm_user": "admin",
      "pm_password": "password",
      "pm_addr": "10.10.10.1",
      "pm_port": "7006"
    }
  ]
}
```

```
]
}
```

•

```
(undercloud) [stack@osp-director ~]$ openstack overcloud node import
~/instackenv.json
```

•

```
(undercloud) [stack@osp-director ~]$ openstack baremetal node list
```

UUID	Name	Instance UUID
0159eddb-4a85-40aa-9e91-51be5f1eae6a	jy-compute-0	None
840b93aa-15e4-4e37-9d80-645e6e096b5f	jy-compute-1	None
ee16b229-8acb-4bfc-8bf7-e5fc922d68d7	jy-compute-2	None
e7ce5dbf-80aa-45c2-90cc-9ae43a29c121	jy-controller-0	None
2a3d995e-fde0-4205-b09e-befe37786511	jy-controller-1	None
62bedfd2-a945-452c-a072-c440f34aa2de	jy-controller-2	None

```
(undercloud) [stack@osp-director ~]$ openstack overcloud node introspect --
all-manageable --provide
Introspection of node 0159eddb-4a85-40aa-9e91-51be5f1eae6a completed.
Status:SUCCESS. Errors:None
Introspection of node 840b93aa-15e4-4e37-9d80-645e6e096b5f completed.
Status:SUCCESS. Errors:None
Introspection of node ee16b229-8acb-4bfc-8bf7-e5fc922d68d7 completed.
Status:SUCCESS. Errors:None
Introspection of node e7ce5dbf-80aa-45c2-90cc-9ae43a29c121 completed.
Status:SUCCESS. Errors:None
Introspection of node 2a3d995e-fde0-4205-b09e-befe37786511 completed.
Status:SUCCESS. Errors:None
Introspection of node 62bedfd2-a945-452c-a072-c440f34aa2de completed.
Status:SUCCESS. Errors:None
Successfully introspected 6 node(s).
```

```
Introspection completed.
Started Mistral Workflow tripleo.baremetal.v1.provide_manageable_nodes.
```



```
Execution ID: 266f947f-dea5-4d4c-a89e-2af0ee15d510
Waiting for messages on queue 'tripleo' with no timeout.
6 node(s) successfully moved to the "available" state.
```

```
(undercloud) [stack@osp-director ~]$ openstack baremetal node list
```

```
+-----+-----+-----+-----+-----+-----+
| UUID | Name | Instance UUID |
Power State | Provisioning State | Maintenance |
+-----+-----+-----+-----+-----+-----+
| 0159eddb-4a85-40aa-9e91-51be5f1eae6a | jy-compute-0 | None |
power off | available | False |
| 840b93aa-15e4-4e37-9d80-645e6e096b5f | jy-compute-1 | None |
power off | available | False |
| ee16b229-8acb-4bfc-8bf7-e5fc922d68d7 | jy-compute-2 | None |
power off | available | False |
| e7ce5dbf-80aa-45c2-90cc-9ae43a29c121 | jy-controller-0 | None |
power off | available | False |
| 2a3d995e-fde0-4205-b09e-befe37786511 | jy-controller-1 | None |
power off | available | False |
| 62bedfd2-a945-452c-a072-c440f34aa2de | jy-controller-2 | None |
power off | available | False |
+-----+-----+-----+-----+-----+-----+
```

```
Provisioning state manage
for node in $(openstack baremetal node list --fields uuid -f value) ; do
openstack baremetal node manage $node ; done
```

- 
- 

```
(undercloud) [stack@osp-director ~]$ openstack baremetal node set --property
capabilities='profile:compute,boot_option:local,node:compute-0' 2a3d995e-
fde0-4205-b09e-befe37786511
(undercloud) [stack@osp-director ~]$ openstack baremetal node set --property
capabilities='profile:control,boot_option:local,node:controller-0' 62bedfd2-
a945-452c-a072-c440f34aa2de
```

- flavor

```
(undercloud) [stack@osp-director ~]$ openstack flavor set --property
"capabilities:boot_option"="local" --property
"capabilities:profile"="control" control
(undercloud) [stack@osp-director ~]$ openstack flavor set --property
"capabilities:boot_option"="local" --property
"capabilities:profile"="compute" compute
(undercloud) [stack@osp-director ~]$ openstack overcloud profiles list
```

```

+-----+-----+-----+
+-----+-----+
| Node UUID                               | Node Name       | Provision State |
Current Profile | Possible Profiles |
+-----+-----+-----+
+-----+-----+-----+
| 0159eddb-4a85-40aa-9e91-51be5f1eae6a | jy-compute-0    | available       |
compute      |                  |
| 840b93aa-15e4-4e37-9d80-645e6e096b5f | jy-compute-1    | available       |
compute      |                  |
| ee16b229-8acb-4bfc-8bf7-e5fc922d68d7 | jy-compute-2    | available       |
compute      |                  |
| e7ce5dbf-80aa-45c2-90cc-9ae43a29c121 | jy-controller-0 | available       |
control      |                  |
| 2a3d995e-fde0-4205-b09e-befe37786511 | jy-controller-1 | available       |
control      |                  |
| 62bedfd2-a945-452c-a072-c440f34aa2de | jy-controller-2 | available       |
control      |                  |
+-----+-----+-----+
+-----+-----+-----+

```

heat-template , overcloud , openstack  
, overcloud . heat-template

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