

목차

Overcloud **설정하기** 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
```

- 생성한 images 폴더로 이동하여 아래 명령어 수행

```
# 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 이미지 수정을 위해 libguestfs-tools-c 패키지 설치

```
## overcloud-full.qcow2 의 root 패스워드를 변경하기 위해 아래 명령어 수행
(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 업로드

```
(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 한 이미지 확인

```

(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
```

- 이미지를 로컬 레포지토리로 설정 하기

```
(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
```

- 레포지토리에 이미지 확인

```
(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 등록하기

```
(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 설정하기

- overcloud node 등록을 위한 instackenv.json 파일 생성

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

- instackenv.json 작성
- node의 기본적인 정보를 작성한다. mac주소, ipmi(PXE) 타입 정보, ipmi 계정정보 등

```
{
  "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"
    }
  ]
}
```

```
]
}
```

- 노드 등록

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

- 등록된 노드 검사 및 인트로스펙션 실행

```
(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

```

power off | manageable | False |
power off | manageable | False |
power off | manageable | False |
power off | manageable | False |
power off | manageable | False |
power off | manageable | False |
power off | manageable | False |

(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 를 manage 모드로 전체 바꾸고 싶으면 아래 커맨드를 통해 진행
for node in $(openstack baremetal node list --fields uuid -f value) ; do
openstack baremetal node manage $node ; done
```

- 노드 프로파일 등록
 - 하드웨어 등록 및 검사 후에 노드에 맞는 역할 프로파일을 등록합니다.

```
(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 프로파일에 태그를 설정합니다.

```
(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 compute	jy-compute-0	available
840b93aa-15e4-4e37-9d80-645e6e096b5f compute	jy-compute-1	available
ee16b229-8acb-4bfc-8bf7-e5fc922d68d7 compute	jy-compute-2	available
e7ce5dbf-80aa-45c2-90cc-9ae43a29c121 control	jy-controller-0	available
2a3d995e-fde0-4205-b09e-befe37786511 control	jy-controller-1	available
62bedfd2-a945-452c-a072-c440f34aa2de control	jy-controller-2	available

해당 작업까지 끝났으면, 기본적인 overcloud 기본 설정 작업은 끝났습니다. 이후 작업은 openstack heat-template 파일을 수정하여, 본격적인 overcloud 배포작업이 진행됩니다. heat-template 작업의 양도 많아서 따로 문서로 작성 [Openstack Heat-Template](#)

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