How to play Redhat Openstack 10 via vm

# Environment Prepare

for this testing , we need a server which has 50G memmory at least.

director 8G 1

controller 8G 3

computer 4G 1

ceph-storage 4G 3

32+4+12=48G

# Undercloud

director在安装undercloud之前必须使用external网络ssh进去。

http://192.168.103.10:3000/

admin/redhat

# Modify overcloud image

overcloud-full.qcow2镜像必须设置默认密码，要不然在ping不通时，无法进入系统去查看是什么原因。

# Install overcloud

## Register node

[root@director httpboot]# ironic port-list

+--------------------------------------+-------------------+

| UUID | Address |

+--------------------------------------+-------------------+

| 5d3bbbd2-87cb-4109-bb8e-a2c305bab57b | 52:54:00:07:35:b4 |

| 7c8cd534-7fd4-4f04-a3b2-36a3ecb26689 | 52:54:00:63:2d:57 |

| 58179fdc-49f2-4026-943e-2b3e0e364526 | 52:54:00:d3:84:aa |

| b0f08912-132a-42c8-b706-b852cd0cc0c2 | 52:54:00:3d:ea:cb |

| 3150edff-4017-4d03-b1a1-6f80c6cd1182 | 52:54:00:ed:9a:53 |

| 58f0c150-bb95-49fd-ab8d-2b933d7fddb9 | 52:54:00:34:0b:4a |

| 7ff1ee6e-18c4-4b75-9ec9-2279e2010d79 | 52:54:00:3c:31:c7 |

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Question: how to inquiry all file in swift ?

## Introspection

openstack overcloud node introspect --all-manageable --provide

[stack@director ~]$ openstack baremetal introspection bulk status

+--------------------------------------+----------+-------+

| Node UUID | Finished | Error |

+--------------------------------------+----------+-------+

| 7f897e37-42b5-4d43-a54c-76e0d6210bb8 | True | None |

| cfb6156f-d8d5-4497-b7c5-49d42808264f | True | None |

| fc638bea-37f1-4615-bfa4-abaea815a7d2 | True | None |

| 3cfe9855-1c73-4112-acf9-5712ba9ec085 | True | None |

| 27068b5c-9722-45a4-b839-136e2f5cabcd | True | None |

| 8b0d6c0b-4b43-490e-8f98-d250dd9c977a | True | None |

| b9569659-b849-45c7-9263-8bbd997e2d30 | True | None |

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[stack@director ~]$ openstack baremetal node list

## setting role

openstack baremetal node set --property capabilities='profile:control,boot\_option:local' a6cb3620-58f2-4a51-95ac-3e2044d357c7

openstack baremetal node set --property capabilities='profile:compute,boot\_option:local' f39d39f7-8bf1-4678-b269-ae6b5ab082c1

openstack baremetal node set --property capabilities='profile:ceph-storage,boot\_option:local' 24f3f890-f65e-4587-8d7a-dcdea9bcfa35

## Adjust nova flavor

nova flavor-delete ceph-storage

openstack flavor set --property "cpu\_arch"="x86\_64" --property "capabilities:boot\_option"="local" --property "capabilities:profile"="ceph-storage" ceph-storage

## deploy

openstack overcloud deploy --templates \

-e /usr/share/openstack-tripleo-heat-templates/environments/network-isolation.yaml \

-e /home/stack/templates/network-environment.yaml \

-e /home/stack/templates/storage-environment.yaml \

--control-scale 3 --compute-scale 1 --ceph-storage-scale 3 \

--control-flavor control --compute-flavor compute --ceph-storage-flavor ceph-storage \

--neutron-network-type vxlan --ntp-server 192.168.103.10

netapp storage

https://access.redhat.com/ecosystem/search/#/ecosystem/Red%20Hat%20OpenStack%20Platform?sort=sortTitle%20asc&certifications=Red%20Hat%20OpenStack%20Platform%208&vendors=NetApp&category=Software

http://www.netapp.com/us/solutions/cloud/openstack.aspx

# Lessons

Filter TripleOCapabilitiesFilter returned 0 hosts

https://bugzilla.redhat.com/show\_bug.cgi?id=1379388

heat stack-delete 可以删除处于CREATE\_IN\_PROGRESS状态的overcloud , it doesn't work in osp9 ,8 or 7.

1. we should to assign root disk for ceph-storage node.

2. modify compute image

3. we should to designate hostname for specific node, it should not be random.

## Set ceph root disk

export SWIFT\_PASSWORD=`sudo crudini --get /etc/ironic-inspector/inspector.conf swift password`

for node in $(ironic node-list | grep -v UUID| awk '{print $2}'); do swift -U service:ironic -K $SWIFT\_PASSWORD download ironic-inspector inspector\_data-$node; done

"disks": [

{

"model": "",

"name": "/dev/vda",

"rotational": true,

"serial": null,

"size": 85899345920,

"vendor": "0x1af4",

"wwn": null,

"wwn\_vendor\_extension": null,

"wwn\_with\_extension": null

},

{

"model": "",

"name": "/dev/vdb",

"rotational": true,

"serial": null,

"size": 42949672960,

"vendor": "0x1af4",

"wwn": null,

"wwn\_vendor\_extension": null,

"wwn\_with\_extension": null

}

"disks": [

{

"model": "QEMU HARDDISK",

"name": "/dev/sda",

"rotational": true,

"serial": "QM00001",

"size": 53687091200,

"vendor": "ATA",

"wwn": null,

"wwn\_vendor\_extension": null,

"wwn\_with\_extension": null

},

{

"model": "",

"name": "/dev/vda",

"rotational": true,

"serial": null,

"size": 85899345920,

"vendor": "0x1af4",

"wwn": null,

"wwn\_vendor\_extension": null,

"wwn\_with\_extension": null

}

ironic node-update 27068b5c-9722-45a4-b839-136e2f5cabcd replace properties/root\_device='{"vendor": "0x1af4"}'

ironic node-update 8b0d6c0b-4b43-490e-8f98-d250dd9c977a replace properties/root\_device='{"vendor": "0x1af4"}'

ironic node-update b9569659-b849-45c7-9263-8bbd997e2d30 replace properties/root\_device='{"vendor": "0x1af4"}'

ceph vm启动时，从硬盘启动是按照磁盘顺序启动的， 目前是virtio , ide 磁盘， 如果之前操作导致virtio上没有os , ide磁盘上有os,

就会从ide磁盘上启动。

感觉设置ceph root disk 这一步骤的效果有bug ， 理论上来讲不应该出现上述问题。

ironic node-update 24f3f890-f65e-4587-8d7a-dcdea9bcfa35 add properties/root\_device='{"vendor": "0x1af4"}'

ironic node-update 10feb866-1287-41dc-bd3f-693bb1ba07c4 add properties/root\_device='{"vendor": "0x1af4"}'

ironic node-update af245783-0abb-4d44-9b70-c72482fdd084 add properties/root\_device='{"vendor": "0x1af4"}'

# Access Overcloud

192.168.101.14

# Refer

<https://adam.younglogic.com/>