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# 在控制节点（KVM中）：Nova配置文件：

[root@controller3 ~]# cat /etc/nova/nova.conf |grep -v ^$ |grep -v ^#

[DEFAULT]

verbose = True

enabled\_apis=osapi\_compute,metadata

my\_ip = 10.50.16.43

rpc\_backend = rabbit

auth\_strategy = keystone

network\_api\_class = nova.network.neutronv2.api.API

security\_group\_api = neutron

linuxnet\_interface\_driver = nova.network.linux\_net.NeutronLinuxBridgeInterfaceDriver

firewall\_driver = nova.virt.firewall.NoopFirewallDriver

ram\_allocation\_ratio = 3

cpu\_allocation\_ratio = 20

[keystone\_authtoken]

auth\_uri = http://controller3:5000

auth\_url = http://controller3:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = nova

password = NOVA\_PASS

[neutron]

url = http://controller3:9696

auth\_url = http://controller3:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = neutron

password = NEUTRON\_PASS

service\_metadata\_proxy = True

metadata\_proxy\_shared\_secret = METADATA\_SECRET

[oslo\_concurrency]

lock\_path = /var/lib/nova/tmp

[oslo\_middleware]

max\_request\_body\_size=114688

[oslo\_messaging\_rabbit]

rabbit\_hosts = controller3:5672

rabbit\_userid = openstack

rabbit\_password = RABBIT\_PASS

[database]

connection = mysql://nova:NOVA\_DBPASS@controller3/nova

[vnc]

vncserver\_listen = 10.50.16.43

vncserver\_proxyclient\_address = 10.50.16.43

[glance]

host = controller3

[oslo\_concurrency]

lock\_path = /var/lib/nova/tmp

[neutron]

url = http://controller3:9696

auth\_url = http://controller3:35357

auth\_uri = http://controller3:9696

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

region\_name = RegionOne

project\_name = service

username = neutron

password = NEUTRON\_PASS

service\_metadata\_proxy = True

metadata\_proxy\_shared\_secret = METADATA\_SECRET

[cache]

enabled = true

backend = dogpile.cache.memcached

memcache\_servers = controller3:11211

[cinder]

os\_region\_name = RegionOne

# 计算节点：编辑nova配置文件

yum install centos-release-openstack-liberty -y

yum install https://rdoproject.org/repos/openstack-liberty/rdo-release-liberty.rpm

yum install openstack-nova-compute sysfsutils openstack-utils -y

**编译nova配置文件：**

[root@hcontroller3 ~]# cat /etc/nova/nova.conf |grep -v ^$ |grep -v ^#

[DEFAULT]

rpc\_backend = rabbit

auth\_strategy = keystone

my\_ip = controller1

network\_api\_class = nova.network.neutronv2.api.API

security\_group\_api = neutron

linuxnet\_interface\_driver = nova.network.linux\_net.NeutronLinuxBridgeInterfaceDriver

firewall\_driver = nova.virt.firewall.NoopFirewallDriver

verbose = True

[keystone\_authtoken]

auth\_uri = http://controller1:5000

auth\_url = http://controller1:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = nova

password = NOVA\_PASS

[neutron]

url = http://controller1:9696

auth\_url = http://controller1:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

region\_name = RegionOne

project\_name = service

username = neutron

password = NEUTRON\_PASS

[oslo\_concurrency]

lock\_path = /var/lib/nova/tmp

[oslo\_messaging\_rabbit]

rabbit\_host = controller1

rabbit\_userid = openstack

rabbit\_password = RABBIT\_PASS

[glance]

host = controller1

[vnc]

enabled = True

vncserver\_listen = 0.0.0.0

vncserver\_proxyclient\_address = controller1

novncproxy\_base\_url = http://controller3:6080/vnc\_auto.html

**启动服务：**

systemctl enable libvirtd.service openstack-nova-compute.service

systemctl start libvirtd.service openstack-nova-compute.service

# 在KVM中：编辑neutron配置文件

**控制节点上：**

**1、安装软件**

#yum install openstack-neutron openstack-neutron-ml2 openstack-neutron-linuxbridge ebtables ipset -y

2，Nova配置文件中添加：

[neutron]

url = http://controller3:9696

auth\_url = http://controller3:35357

auth\_uri = http://controller3:9696

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

region\_name = RegionOne

project\_name = service

username = neutron

password = NEUTRON\_PASS

service\_metadata\_proxy = True

metadata\_proxy\_shared\_secret = METADATA\_SECRET

**,3，重启nova服务**systemctl restart openstack-nova-api.service

**,4，Neutorn配置文件：**

[DEFAULT]

verbose = True

core\_plugin = ml2

service\_plugins = router

allow\_overlapping\_ips = True

rpc\_backend = rabbit

auth\_strategy = keystone

notify\_nova\_on\_port\_status\_changes = True

notify\_nova\_on\_port\_data\_changes = True

nova\_url = http://controller1:8774/v2

l3\_ha = True

dhcp\_agents\_per\_network = 2

allow\_automatic\_l3agent\_failover = True

max\_l3\_agents\_per\_router = 2

min\_l3\_agents\_per\_router = 2

bind\_host = 10.50.16.42

[nova]

auth\_url = http://controller1:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

region\_name = RegionOne

project\_name = service

username = nova

password = NOVA\_PASS

[keystone\_authtoken]

auth\_uri = http://controller1:5000

auth\_url = http://controller1:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = neutron

password = NEUTRON\_PASS

memcached\_servers = controller1:11211

cache = True

[oslo\_messaging\_rabbit]

rabbit\_hosts = controller1:5672

rabbit\_userid = openstack

rabbit\_password = RABBIT\_PASS

[database]

connection = mysql://neutron:NEUTRON\_DBPASS@controller1/neutron

[oslo\_concurrency]

lock\_path = /var/lib/neutron/tmp

**,5，Modular Layer 2 (ML2) 插件**

编辑 /etc/neutron/plugins/ml2/ml2\_conf.ini

**[root@controller3 neutron]# cat plugins/ml2/ml2\_conf.ini**

[ml2]

type\_drivers = flat,vlan,vxlan

tenant\_network\_types = vxlan

mechanism\_drivers = linuxbridge,l2population

extension\_drivers = port\_security

[ml2\_type\_flat]

flat\_networks = \*

[ml2\_type\_vxlan]

vni\_ranges = 1:1000

[securitygroup]

enable\_ipset = True

**,6.，由于在KVM镜像做好，一下步骤可以忽觉：**

**创建链接**

#ln -s /etc/neutron/plugins/ml2/ml2\_conf.ini /etc/neutron/plugin.ini

**初始化数据库（一台）**

#su -s /bin/sh -c "neutron-db-manage --config-file /etc/neutron/neutron.conf \

--config-file /etc/neutron/plugins/ml2/ml2\_conf.ini upgrade head" neutron

**7，启动nuetorn服务：**

systemctl enable neutron-server.service

systemctl restart neutron-server.service

# 网络节点（计算节点）上：编辑neutron配置文件

**1，安装组件**

yum install openstack-neutron openstack-neutron-ml2 openstack-neutron-linuxbridge ebtables ipset -y

2**、配置Linux bridge agent**

[root@hcontroller3 ~]# cat /etc/neutron/plugins/ml2/linuxbridge\_agent.ini |grep -v ^$ | grep -v ^#

[linux\_bridge]

physical\_interface\_mappings = physnet1:bond1.1124,physnet2:bond1.1033,physnet3:bond1.1034,physnet4:bond1.2001

[vxlan]

enable\_vxlan = True

l2\_population = True

local\_ip 10.50.16.13

[agent]

prevent\_arp\_spoofing = True

[securitygroup]

enable\_security\_group = True

firewall\_driver = neutron.agent.linux.iptables\_firewall.IptablesFirewallDriver

**3、配置the layer-3 agent**

[root@hcontroller3 neutron]# cat /etc/neutron/l3\_agent.ini |grep -v ^$ | grep -v ^#

[DEFAULT]

interface\_driver = neutron.agent.linux.interface.BridgeInterfaceDriver

external\_network\_bridge =

verbose = True

**4、配置 the DHCP agent**

[root@hcontroller3 neutron]# cat /etc/neutron/dhcp\_agent.ini |grep -v ^$ | grep -v ^#

[DEFAULT]

interface\_driver = neutron.agent.linux.interface.BridgeInterfaceDriver

dhcp\_driver = neutron.agent.linux.dhcp.Dnsmasq

enable\_isolated\_metadata = True

verbose = True

dnsmasq\_config\_file = /etc/neutron/dnsmasq-neutron.conf

**5、新建配置文件**

cat >/etc/neutron/dnsmasq-neutron.conf<<EOF

dhcp-option-force=26,1450

EOF

**6、配置metadata agent**

[root@hcontroller3 neutron]# cat /etc/neutron/metadata\_agent.ini |grep -v ^$ | grep -v ^#

[DEFAULT]

auth\_url = http://controller:35357

auth\_region = RegionOne

admin\_tenant\_name = %SERVICE\_TENANT\_NAME%

admin\_user = %SERVICE\_USER%

admin\_password = %SERVICE\_PASSWORD%

auth\_uri = http://controller:5000

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = neutron

password = NEUTRON\_PASS

nova\_metadata\_ip = controller1

metadata\_proxy\_shared\_secret = METADATA\_SECRET

verbose = True

**7、配置**neutron.conf

[root@hcontroller3 neutron]# cat /etc/neutron/neutron.conf |grep -v ^$ | grep -v ^#

[DEFAULT]

core\_plugin = ml2

service\_plugins = router

allow\_overlapping\_ips = True

rpc\_backend = rabbit

auth\_strategy = keystone

notify\_nova\_on\_port\_status\_changes = True

notify\_nova\_on\_port\_data\_changes = True

nova\_url = http://controller:8774/v2

verbose = True

l3\_ha = True

dhcp\_agents\_per\_network = 2

allow\_automatic\_l3agent\_failover = True

max\_l3\_agents\_per\_router = 2

min\_l3\_agents\_per\_router = 2

bind\_host = 10.50.0.13

[keystone\_authtoken]

auth\_uri = http://controller:5000

auth\_url = http://controller:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = neutron

password = NEUTRON\_PASS

memcached\_servers = controller1:11211,controller2:11211,controller3:11211

cache = True

[database]

connection = mysql://neutron:NEUTRON\_DBPASS@controller/neutron

[nova]

auth\_url = http://controller:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

region\_name = RegionOne

project\_name = service

username = nova

password = NOVA\_PASS

[oslo\_concurrency]

lock\_path = /var/lib/neutron/tmp

[oslo\_messaging\_rabbit]

rabbit\_hosts = controller1:5672,controller2:5672,controller3:5672

rabbit\_userid = openstack

rabbit\_password = RABBIT\_PASS

**8，启动服务：**

systemctl enable neutron-linuxbridge-agent.service neutron-dhcp-agent.service neutron-metadata-agent.service neutron-l3-agent.service

systemctl start neutron-linuxbridge-agent.service neutron-dhcp-agent.service neutron-metadata-agent.service neutron-l3-agent.service

# 控制节点（KVM）：编辑cinder配置文件

[root@controller3 ~]# cat /etc/cinder/cinder.conf |grep -v ^$|grep -v ^#

[DEFAULT]

verbose = True

my\_ip = **10.50.16.43**

rpc\_backend = rabbit

auth\_strategy = keystone

[keystone\_authtoken]

auth\_uri = http://controller3:5000

auth\_url = http://controller3:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = cinder

password = CINDER\_PASS

[oslo\_messaging\_rabbit]

rabbit\_host = controller3

rabbit\_userid = openstack

rabbit\_password = RABBIT\_PASS

[database]

connection = mysql://cinder:CINDER\_DBPASS@controller3/cinder

[oslo\_concurrency]

lock\_path = /var/lib/cinder/tmp

# 存储节点（宿主机）：编辑cinder配置文件：

[root@hcontroller3 ~]# cat /etc/cinder/cinder.conf |grep -v ^$|grep -v ^#

[DEFAULT]

rpc\_backend = rabbit

auth\_strategy = keystone

my\_ip = 10.50.16.13

enabled\_backends = lvm

glance\_host = controller3

[database]

connection = mysql://cinder:CINDER\_DBPASS@controller3/cinder

[oslo\_concurrency]

lock\_path = /var/lib/cinder/tmp

[oslo\_messaging\_rabbit]

rabbit\_host = controller3

rabbit\_userid = openstack

rabbit\_password = RABBIT\_PASS

[keystone\_authtoken]

auth\_uri = http://controller3:5000

auth\_url = http://controller3:35357

auth\_plugin = password

project\_domain\_id = default

user\_domain\_id = default

project\_name = service

username = cinder

password = CINDER\_PASS

[lvm]

volume\_driver = cinder.volume.drivers.lvm.LVMVolumeDriver

volume\_group = cinder-volumes

iscsi\_protocol = iscsi

iscsi\_helper = lioadm

**Cinder配置文件：**

问题：

[root@hcontroller3 cinder]# pvcreate /dev/sdb

Can't open /dev/sdb exclusively. Mounted filesystem?

方案：

dmsetup remove\_all

# systemctl enable openstack-cinder-volume.service target.service

# systemctl start openstack-cinder-volume.service target.service