安装部署手册

1. 部署环境
2. 操作系统:ubuntu 14.04
3. Openstack版本:juno
4. 服务器配置:最少4G，4个CPU
5. 配置前部署
6. ntp配置

crontab –e

\*/5 \* \* \* \* /usr/sbin/ntpdate 172.20.0.154 > /dev/null 2>&1

2.源更新

a. vim /etc/apt/sources.list

deb http://mirrors.aliyun.com/ubuntu/ utopic main restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ utopic-security main restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ utopic-updates main restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ utopic-proposed main restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ utopic-backports main restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ utopic main restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ utopic-security main restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ utopic-updates main restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ utopic-proposed main restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ utopic-backports main restricted universe multiverse

b.apt-get update

c.apt-get install ubuntu-cloud-keyring

d.echo "deb <http://ubuntu-cloud.archive.canonical.com/ubuntu>" \

"trusty-updates/juno main" > /etc/apt/sources.list.d/cloudarchive-juno.list

e.apt-get update && apt-get dist-upgrade -y

注意:更新完源必须重启机器

三．配置计算节点

1.apt-get install nova-compute sysfsutils

2. vim /etc/nova/nova.conf

[DEFAULT]

rpc\_backend = rabbit

rabbit\_host = controller

rabbit\_password = guest

auth\_strategy = keystone

my\_ip = 172.20.0.153

vnc\_enabled = True

vncserver\_listen = 0.0.0.0

vncserver\_proxyclient\_address = 172.20.0.153

novncproxy\_base\_url = http://*172.20.0.154*:6080/vnc\_auto.html

[keystone\_authtoken]

auth\_uri = http://controller:5000/v2.0

identity\_uri = http://controller:35357

admin\_tenant\_name = service

admin\_user = nova

admin\_password = 111111

[glance]

host = *controller*

*3.验证安装*

egrep -c '(vmx|svm)' /proc/cpuinfo

If this command returns a value of *one or greater*, your compute node supports hardware

acceleration which typically requires no additional configuration.

If this command returns a value of *zero*, your compute node does not support hardware

acceleration and you must configure libvirt to use QEMU instead of KVM.

vim /etc/nova/nova-compute.conf

[libvirt]

virt\_type = qemu

service nova-compute restart

rm -f /var/lib/nova/nova.sqlite

四．安装网络节点

1. vim /etc/sysctl.conf

net.ipv4.ip\_forward=1

net.ipv4.conf.all.rp\_filter=0

net.ipv4.conf.default.rp\_filter=0

sysctl –p

1. 安装服务

apt-get install neutron-plugin-ml2 neutron-plugin-openvswitch-agent neutron-l3-agent neutron-dhcp-agent -y

1. 修改配置文件

vim /etc/neutron/neutron.conf

[DEFAULT]

rpc\_backend = rabbit

rabbit\_host = *controller*

rabbit\_password = *guest*

auth\_strategy = keystone

core\_plugin = ml2

service\_plugins = router

allow\_overlapping\_ips = True

[keystone\_authtoken]

auth\_uri = http://*controller*:5000/v2.0

identity\_uri = http://*controller*:35357

admin\_tenant\_name = service

admin\_user = neutron

admin\_password = *111111*

*vim* /etc/neutron/plugins/ml2/ml2\_conf.ini这一步是配置openstack的虚拟网卡，很重要！

[ml2]

type\_drivers = flat,gre

tenant\_network\_types = gre

mechanism\_drivers = openvswitch

[ml2\_type\_flat]

flat\_networks = external,endternal

[ml2\_type\_vlan]

[ml2\_type\_gre]

tunnel\_id\_ranges = 1:1000

[ml2\_type\_vxlan]

[securitygroup]

enable\_security\_group = True

enable\_ipset = True

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

[ovs]

local\_ip = 172.20.0.153

enable\_tunneling = True

bridge\_mappings = external:br-ex,endternal:br-end

[agent]

tunnel\_types = gre

vim /etc/neutron/l3\_agent.ini 这一步是安装openstack路由，我配置的是多外网，这一步里面的配置是整个服务正常运行的关键

[DEFAULT]

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

use\_namespaces = True

handle\_internal\_only\_routers = True

external\_network\_bridge =

gateway\_external\_network\_id =

router\_delete\_namespaces = True

verbose = True

vim /etc/neutron/dhcp\_agent.ini

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

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

use\_namespaces = True

dhcp\_delete\_namespaces = True

verbose = True

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

vim /etc/neutron/dnsmasq-neutron.conf

dhcp-option-force=26,1454

**pkill dnsmasq**

**vim** /etc/neutron/metadata\_agent.ini

[DEFAULT]

auth\_url = http://*controller*:5000/v2.0

auth\_region = regionOne

admin\_tenant\_name = service

admin\_user = neutron

admin\_password = *111111*

nova\_metadata\_ip = *controller*

metadata\_proxy\_shared\_secret = *111111*

[DEFAULT]

verbose = True

网络节点的配置文件修改结束，但是元数据配置，需要在controller节点/etc/nova/nova.conf添加两行代码

[neutron]

service\_metadata\_proxy = True

metadata\_proxy\_shared\_secret = 111111

1. 创建网桥。

外网网段一配置

ovs-vsctl add-br br-ex

ovs-vsctl add-port br-ex eth1

外网网段二配置

ovs-vsctl add-br br-end

ovs-vsctl add-port br-end eth0

service neutron-plugin-openvswitch-agent restart

service neutron-l3-agent restart

service neutron-dhcp-agent restart

service neutron-metadata-agent restart

service openvswitch-switch restart

1. 网卡配置

auto eth0

iface eth0 inet static

address 0.0.0.0

auto br-end

iface br-end inet static

address 172.20.0.153

netmask 255.255.255.0

gateway 172.20.0.1

auto eth1

iface eth1 inet static

address 0.0.0.0

auto br-ex

iface br-ex inet static

address 122.226.100.153

netmask 255.255.255.240

gateway 122.226.100.145

1. 验证网络连通性，如果网络是通的，flat网段的第一个ip默认是路由，在同一个网络是可以ping通的



