em1->192.168.17.137 (책에서 10점대)

em2->192.168.27.130 (책에서 192점대)

apt-get -y update

apt-get -y upgrade

reboot

apt-get -y install rabbitmq-server

rabbitmqctl change\_password guest openstack1

rabbitmqctl status

apt-get -y install python-mysqldb mysql-server

bind-address = 0.0.0.0 (/etc/my.cnf)

service mysql restart

service mysql status

apt-get -y install keystone

CREATE DATABASE keystone

mysql> GRANT ALL ON keystone\_dbu.\* TO 'keystone'@'localhost' \

IDENTIFIED BY 'openstack1';

GRANT ALL ON keystone.\* TO 'keystone\_dbu'@'localhost' \

IDENTIFIED BY 'openstack1';

connection = mysql://keystone\_dbu:openstack1@localhost:3306/keystone

mysql\_sql\_mode=TRADITIONAL (/etc/keystone.conf)

show grants for 'keystone\_dbu'@'localhost';

service keystone restart

keystone-manage db\_sync

#This file contains environmental variables used to access Keystone

# Host address

HOST\_IP=192.168.17.137 #The Management Address

# Keystone definitions

KEYSTONE\_REGION=RegionOne

ADMIN\_PASSWORD=admin\_pass

SERVICE\_PASSWORD=service\_pass

export SERVICE\_TOKEN="ADMIN"

export SERVICE\_ENDPOINT="http://192.168.17.137:35357/v2.0"

SERVICE\_TENANT\_NAME=service

source ~/keystone.auth

set | grep SERVICE

keystone discover

keystone service-create --name=keystone \

--type=identity --description="Identity Service"

keystone endpoint-create \

--region RegionOne \

--service=keystone \

--publicurl=http://192.168.27.130:5000/v2.0 \

--internalurl=http://1192.168.17.137:5000/v2.0 \

--adminurl=http://192.168.17.137:35357/v2.0

keystone tenant-create --name=admin --description "Admin Tenant"

keystone tenant-create --name=service \

--description="Service Tenant"

keystone user-create --name=admin \

--pass=openstack1 \

--email=admin@testco.com

keystone role-create --name=admin

keystone role-create --name=Member

keystone user-role-add --user=admin --role=admin --tenant=admin

keystone user-role-list --user=admin --tenant=admin

-----------------------------------------------------------------------------------------keystone

CREATE DATABASE glance;

GRANT ALL ON glance.\* TO 'glance\_dbu'@'localhost' \

IDENTIFIED BY 'openstack1';

SHOW GRANTS FOR 'glance\_dbu'@'localhost';

keystone user-create --name=glance \

--pass="openstack1" \

--email=glance@testco.com

keystone user-role-add --user=glance --role-id=admin --tenant=service

keystone user-role-list --user=glance --tenant=service

keystone service-create --name=glance --type=image \

--description="Image Service"

keystone endpoint-create \

--region RegionOne \

--service=glance \

--publicurl=http://192.168.27.130:9292 \

--internalurl=http://192.168.17.137:9292 \

--adminurl=http://192.168.17.137:9292

apt-get -y install glance glance-api \

glance-registry python-glanceclient \

glance-common

[DEFAULT] (/etc/glance/glance-api.conf)

rpc\_backend = rabbit

rabbit\_host = 192.168.17.137

rabbit\_password = openstack1

[database]

#sqlite\_db = /var/lib/glance/glance.sqlite

connection = mysql://glance\_dbu:openstack1@localhost/glance

mysql\_sql\_mode = TRADITIONAL

[database] (/etc/glance/glance-registry.conf)

#sqlite\_db = /var/lib/glance/glance.sqlite

connection = mysql://glance\_dbu:openstack1@localhost/glance

mysql\_sql\_mode = TRADITIONAL

service glance-api restart

service glance-registry restart

glance-manage db\_sync

mysql --user=root --password=openstack1 glance

mysql> alter table migrate\_version convert to \

character set utf8 collate utf8\_unicode\_ci;

wget http://download.cirros-cloud.net/0.3.2/cirros-0.3.2-x86\_64-disk.img

* <http://download.cirros-cloud.net/0.3.2/cirros-0.3.2-x86_64-disk.img>(현재 사용가능한 주소)

glance --os-username=admin --os-password openstack1 \

--os-tenant-name=admin \

--os-auth-url=http://192.168.27.130:5000/v2.0 \

image-create \

--name="Cirros 0.3.2" \

--is-public=true \

--disk-format=qcow2 \

--container-format=bare \

--file cirros-0.3.2-x86\_64-disk.img

-> glance-manage db\_sync 해야 mysql에 glacne db테이블을 생성함

glance --os-username=admin --os-password openstack1 \

--os-tenant-name=admin \

--os-auth-url=http://192.168.27.130:5000/v2.0 \

image-list \

-----------------------------------------------------------------------------------------glance

CREATE DATABASE cinder;

GRANT ALL ON cinder.\* TO 'cinder\_dbu'@'%' \

IDENTIFIED BY 'openstack1';

SHOW GRANTS FOR 'cinder\_dbu'@'%';

keystone user-create --name=cinder \

--pass="openstack1" \

--email=cinder@testco.com

keystone user-role-add --user=cinder --role-id=admin --tenant=service

keystone user-role-list --user=cinder --tenant=service

keystone service-create --name=cinder --type=volume \

--description="Block Storage"

keystone endpoint-create \

--region RegionOne \

--service=cinder \

--publicurl=http://192.168.27.130:8776/v1/%\(tenant\_id\)s \

--internalurl=http://192.168.17.137:8776/v1/%\(tenant\_id\)s \

--adminurl=http://192.168.17.137/v1/%\(tenant\_id\)s

apt-get -y install cinder-api cinder-scheduler

[DEFAULT] (/etc/cinder/cinder.conf)

rpc\_backend = rabbit

rabbit\_host = 192.168.17.137

rabbit\_password = openstack1

[database]

connection = mysql://cinder\_dbu:openstack1@localhost/cinder

[keystone\_authtoken]

auth\_uri = http://192.168.17.137:35357

admin\_tenant\_name = service

admin\_password = openstack1

auth\_protocol = http

admin\_user = cinder

service cinder-scheduler restart

service cinder-api restart

cinder-manage db sync

-----------------------------------------------------------------------------------------cinder

CREATE DATABASE neutron;

GRANT ALL ON neutron.\* TO 'neutron\_dbu'@'localhost' IDENTIFIED BY 'openstack1';

GRANT ALL ON neutron.\* TO 'neutron\_dbu'@'%' IDENTIFIED BY 'openstack1';

mysql> SHOW GRANTS FOR 'neutron\_dbu'@'%';

keystone user-create --name=neutron \

--pass="openstack1" \

[--email=neutron@testco.com](mailto:--email=neutron@testco.com)

keystone user-role-add \

--user=neutron \

--role=admin \

--tenant=service

keystone user-role-list --user=neutron --tenant=service

keystone service-create --name=neutron --type=network \

--description="OpenStack Networking Service"

keystone endpoint-create \

--region RegionOne \

--service=neutron \

--publicurl=http://192.168.27.130:9696 \

--internalurl=http://192.168.17.137:9696 \

--adminurl=http://192.168.17.137:9696

apt-get install -y neutron-server

[DEFAULT] (/etc/neutron/neutron.conf)

core\_plugin = neutron.plugins.ml2.plugin.Ml2Plugin

service\_plugins = router,firewall,lbaas,vpnaas,metering

allow\_overlapping\_ips = True

...

nova\_url = http://192.168.17.137:8774/v2

nova\_admin\_username = admin

nova\_admin\_password = openstack1

nova\_admin\_tenant\_id = 52898f8581f645e899ded3990c315267 (keystone tenant-list에서 service)

nova\_admin\_auth\_url = http://192.168.27.130:35357/v2.0

...

[keystone\_authtoken]

auth\_uri = http://192.168.27.130:5000

auth\_protocol = http

admin\_tenant\_name = service

admin\_user = neutron

admin\_password = openstack1

...

[database]

connection = mysql://neutron\_dbu:openstack1@localhost/neutron

[ml2] (/etc/neutron/plugins/ml2/ml2\_conf.ini)

type\_drivers = gre

tenant\_network\_types = gre

mechanism\_drivers = openvswitch

[ml2\_type\_gre]

tunnel\_id\_ranges = 1:1000

[securitygroup]

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

enable\_security\_group = True

service neutron-server restart (6장 20페이지 config 빠진것 구성)

-----------------------------------------------------------------------------------------neutron

CREATE DATABASE nova;

GRANT ALL ON nova.\* TO 'nova\_dbu'@'localhost' IDENTIFIED BY 'openstack1';

GRANT ALL ON nova.\* TO 'nova\_dbu'@'%' IDENTIFIED BY 'openstack1';

show grants for 'nova\_dbu'@'localhost'

keystone user-create --name=nova \

--pass="openstack1" \

[--email=nova@testco.com](mailto:--email=nova@testco.com)

keystone user-role-add --user=nova --role=admin --tenant=service

keystone user-role-list --user=nova --tenant=service

keystone service-create --name=nova --type=compute \

--description="OpenStack Compute Service"

keystone endpoint-create --region RegionOne \

--service=nova \

--publicurl='http://192.168.27.130:8774/v2/$(tenant\_id)s' \

--internalurl='http://192.168.17.137:8774/v2/$(tenant\_id)s' \

--adminurl='http://192.168.17.137:8774/v2/$(tenant\_id)s'

apt-get -y install nova-api nova-cert nova-conductor nova-consoleauth \

nova-novncproxy nova-scheduler python-novaclient

[DEFAULT] (/etc/nova/nova.conf)

rpc\_backend = rabbit

rabbit\_host = 192.168.17.137

rabbit\_password = openstack1

my\_ip = 192.168.17.137

vncserver\_listen = 0.0.0.0

vncserver\_proxyclient\_address = 0.0.0.0

auth\_strategy=keystone

service\_neutron\_metadata\_proxy = true

neutron\_metadata\_proxy\_shared\_secret = openstack1

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

neutron\_url = http://192.168.17.137:9696

neutron\_auth\_strategy = keystone

neutron\_admin\_tenant\_name = service

neutron\_admin\_username = neutron

neutron\_admin\_password = openstack1

neutron\_admin\_auth\_url = <http://192.168.17.137:35357/v2.0>

linuxnet\_interface\_driver = nova.network.linux\_net.LinuxOVSInterfaceDriver (한줄로 작성)

firewall\_driver = nova.virt.firewall.NoopFirewallDriver

security\_group\_api = neutron

[database]

connection = mysql://nova\_dbu:openstack1@localhost/nova

[keystone\_authtoken]

auth\_uri = http://192.168.17.137:35357

admin\_tenant\_name = service

admin\_password = openstack1

auth\_protocol = http

admin\_user = nova

nova-manage db sync

cd /usr/bin/; for i in $( ls nova-\* ); \

do sudo service $i restart; done

service nova-api restart

service nova-cert restart

service nova-conductor restart

service nova-consoleauth restart

service nova-novncproxy restart

service nova-scheduler restart

nova-manage service list

-----------------------------------------------------------------------------------------nova

apt-get install -y openstack-dashboard memcached python-memcache

apt-get -y remove --purge openstack-dashboard-ubuntu-theme

Enable Debugging Dashboard

\*\*/usr/share/openstack-dashboard/openstack\_dashboard/local/local\_settings.py

#DEBUG = False

DEBUG = True

service apache2 restart

-----------------------------------------------------------------------------------------horizon

<http://192.168.27.130/horizon> 접속 정상

admin/openstakc1 접속시 error 발생

(/var/log/rabbitmq/rabbitmq@controller 로그시 인증실패)

(/etc/neutron/neutron.conf의 rabbiitmq 설정확인)