**Install and Configure the Keystone**

**Step 1: Install Memcached and keystone packages**

# yum install openstack-keystone httpd mod\_wsgi -y

**Step 2: Create database**

# mysql -u root -p

# CREATE DATABASE keystone;

GRANT ALL ON keystone.\* TO 'keystoneUser'@'%' IDENTIFIED BY 'keystonePass';

Quit;

In the mariadb none paste the above one

**Step 3: Adapt the connection attribute in the /etc/keystone/keystone.conf to the new database**

# vim /etc/keystone/keystone.conf

[database]

connection = mysql+pymysql://keystoneUser:keystonePass@192.168.6.141/keystone

only copy database] the press escp /database] 🡪 do this in the configuration file then press n( used to navigate between the same keyword) change the ip of the ip to ens34 (used only for mysql and database service) then insert the above

[token]

provider = fernet

Do the same like the above one that is / thing

Paste the above one next to fernet

[cache]

memcache\_servers = 192.168.6.141:11211

Procedure is same as above then edit for the ens 34 ip and paste it

**Step 4: Synchronize the database**

# su -s /bin/sh -c "keystone-manage db\_sync" keystone

**Step 5: Initialize Fernet key repositories:**

# keystone-manage fernet\_setup --keystone-user keystone --keystone-group keystone

# keystone-manage credential\_setup --keystone-user keystone --keystone-group keystone

**Step 6: Bootstrap the Identity service**

keystone-manage bootstrap --bootstrap-password openstack \

--bootstrap-admin-url http://192.168.6.141:5000/v3/ \

--bootstrap-internal-url http://192.168.6.141:5000/v3/ \

--bootstrap-public-url http://192.168.6.140:5000/v3/ \

--bootstrap-region-id RegionOne

Ens 33 ip is used for public access, user access, admin access and token access

Change the Ip add the ip of , last one is 33 and first two is 34 ip

**Step 7: Configure httpd server**

# vim /etc/httpd/conf/httpd.conf

ServerName rocky

Edit next to server name

**Step 8: Enable and start the Httpd server**

# ln -s /usr/share/keystone/wsgi-keystone.conf /etc/httpd/conf.d/

Used to synchronize the configuration

# systemctl enable httpd.service

systemctl start httpd.service

**##Step 9: Configure Administrative Account**

export OS\_USERNAME=admin

export OS\_PASSWORD=openstack

export OS\_PROJECT\_NAME=admin

export OS\_USER\_DOMAIN\_NAME=Default

export OS\_PROJECT\_DOMAIN\_NAME=Default

export OS\_AUTH\_URL=http://192.168.0.180:5000/v3

export OS\_IDENTITY\_API\_VERSION=3

Don’t do this instead of this do 16, 17 , 18 steps

**Step 10: Test openstack users**

# openstack user list

**Step 11: Create the service project**

# openstack project create --domain default --description "Service Project" service

**Step 12: Create demo project**

# openstack project create --domain default --description "Demo Project" demo

**Step 13: Create demo user**

# openstack user create --domain default --password demo\_pass demo

**Step 14: Create user role**

# openstack role create user

**Step 15: Add user role to demo user**

# openstack role add --project demo --user demo user

**Step 16: Create a admin credential file**

# vim creds

export OS\_PROJECT\_DOMAIN\_NAME=default

export OS\_USER\_DOMAIN\_NAME=default

export OS\_PROJECT\_NAME=admin

export OS\_USERNAME=admin

export OS\_PASSWORD=openstack

export OS\_AUTH\_URL=http://192.168.6.140:5000/v3

export OS\_IDENTITY\_API\_VERSION=3

export OS\_IMAGE\_API\_VERSION=2

ip is ens33 change it to it

set the password according to your need the user and password

**Step 17: Create a demo credential file**

# vim democreds

export OS\_PROJECT\_DOMAIN\_NAME=default

export OS\_USER\_DOMAIN\_NAME=default

export OS\_PROJECT\_NAME=demo

export OS\_USERNAME=demo

export OS\_PASSWORD=demo\_pass

export OS\_AUTH\_URL=http://192.168.6.140:5000/v3

export OS\_IDENTITY\_API\_VERSION=3

export OS\_IMAGE\_API\_VERSION=2

used for internal use

change the ip to ens33 ip

change the password accordingly

**Step 18: Now run below command to source credentials**

# source creds

To reflect the changes

When we turnoff and the turn on then type this command after the keystone in order to provide the credentials

**Step 19: Test OpenStack users**

# openstack user list

Last step