**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;

**Step 3: Adapt the connection attribute in the /etc/keystone/keystone.conf to the new database(use esc + / for searching) and next one press N**

# vim /etc/keystone/keystone.conf

[database] 728,1(search)

connection = mysql+pymysql://keystoneUser:keystonePass@192.168.96.131/keystone

[token]

provider = fernet

[cache]

memcache\_servers = 10.10.100.181:11211 {change the 10.10.100

**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://192.168.96.134:5000/v3/ \

--bootstrap-internal-url http://192.168.96.134:5000/v3/ \

--bootstrap-public-url http://192.168.96.133:5000/v3/ \

--bootstrap-region-id RegionOne

**Step 7: Configure httpd server**

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

ServerName rocky

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

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

# 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://192.168.96.133:5000/v3

export OS\_IDENTITY\_API\_VERSION=3

**Step 10: Test openstack users**

# openstack user list (systemctl restart httpd.service)

**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://192.168.0.120:5000/v3

export OS\_IDENTITY\_API\_VERSION=3

export OS\_IMAGE\_API\_VERSION=2

**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://192.168.0.120:5000/v3

export OS\_IDENTITY\_API\_VERSION=3

export OS\_IMAGE\_API\_VERSION=2

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

# source creds

**Step 19: Test OpenStack users**

# openstack user list