**RGW Installation**

**Step 0: Create network config file**

#  vi /etc/netplan/01-netcfg.yaml

network:

ethernets:

enp1s0:

addresses:

- 192.168.21.247/24

gateway4: 192.168.21.1

nameservers:

addresses: [10.137.224.5]

enp2s0:

addresses:

- 192.168.23.253/24

mtu: 9000

enp3s0:

addresses:

- 10.157.234.187/26

#gateway4: 10.157.234.129

mtu: 9000

enp4s0:

addresses:

- 192.168.24.37/24

mtu: 9000

enp5s0:

addresses:

- 10.157.234.253/26

mtu: 9000

version: 2

**Step 1a: Configure Proxy**

#  vim /etc/apt/apt.conf.d/proxy.conf

Acquire::http::proxy "http://jpe3proxy.jaws.jio.com:8080";

Acquire::https::proxy "http://jpe3proxy.jaws.jio.com:8080";

# vim /etc/apt/apt.conf.d/99verify-peer.conf

Acquire { https::Verify-Peer false }

**Step 1b: Install Packages**

# apt-get update -y

 apt-get install ntp -y

**Step 2: Edit NTP configuration file**

#  vim /etc/ntp.conf

server 10.144.226.50 iburst

server 10.144.226.51 iburst

**Step 3: Enable & Start the ntp service**

# systemctl restart ntp

**Step 4: Check the sync status**

# ntpq -p

timedatectl set-timezone Asia/Kolkata

timedatectl

**Step 5: Create ceph-cloud User[perform in All the Ceph Nodes]**

# adduser cephadm

# passwd cephadm

**Step 6: Enable Sudo Privilege for cephadm user [perform in All the Ceph Nodes]**

# echo "cephadm ALL = (root) NOPASSWD:ALL" | sudo tee /etc/sudoers.d/cephadm

chmod 0440 /etc/sudoers.d/cephadm

**Step 7: Copy the ssh key from cmn nodes to all the rgw nodes**

# vim /etc/hosts

10.157.234.185 ceph-rgw01 ceph-rgw01.jpe1b.jaws.jio.com

10.157.234.186 ceph-rgw02 ceph-rgw02.jpe1b.jaws.jio.com

10.157.234.187 ceph-rgw03 ceph-rgw03.jpe1b.jaws.jio.com

# su - cephadm

# ssh-copy-id cephadm@ceph-rgw01

# ssh-copy-id cephadm@ceph-rgw02

# ssh-copy-id cephadm@ceph-rgw03

**Step 8: Update deployment user(cephadm/root) ssh config file in cmn node**

$ vim ~/.ssh/config

Host ceph-rgw01

Hostname ceph-rgw01

User cephadm

Host ceph-rgw02

Hostname ceph-rgw02

User cephadm

Host ceph-rgw03

Hostname ceph-rgw03

User cephadm

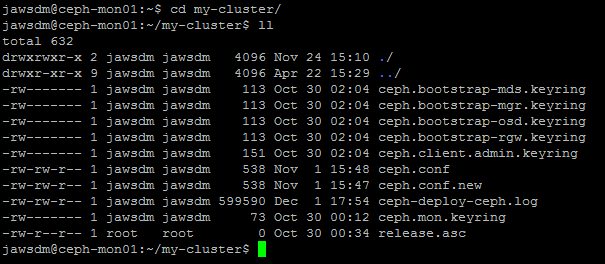
**Step 9: install python packages in all the rgw nodes**

$ apt-get install python2-minimal

**Step 10: Go to deployment folder in cmn node.**

$ cd my-cluster/

$ ll



**Step 11: install ceph packages in all the rgw nodes from cmn nodes**

$ ceph-deploy install ceph-rgw01 ceph-rgw02 ceph-rgw03

**Step 11: Copy ceph admin keys in all the rgw nodes from cmn nodes**

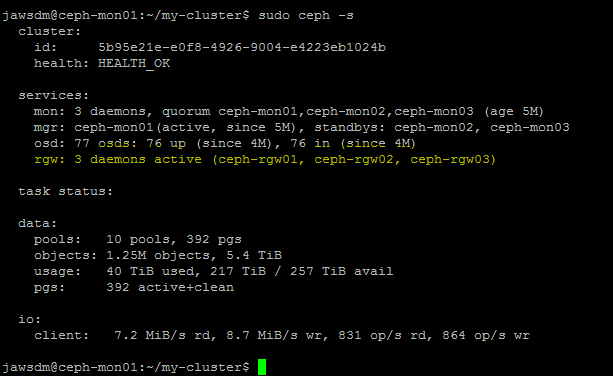
$ ceph-deploy admin ceph-rgw01 ceph-rgw02 ceph-rgw03

**Step 12: Create rgw services**

$ ceph-deploy rgw create ceph-rgw01 ceph-rgw02 ceph-rgw03

**Step 13: check ceph status**

$ sudo ceph -s



**Step 14: Update radosgw configuration based on the rgw nodes**

$ vi /etc/ceph/ceph.conf

[client.rgw.ceph-rgw01]

host = ceph-rgw01

keyring = /var/lib/ceph/radosgw/ceph-rgw.ceph-rgw01/keyring

log file = /var/log/rgw/ceph-client.rgw.ceph-rgw01.log

rgw\_frontends = "civetweb port=8080"

rgw swift enforce content length = True

rgw keystone api version = 3

rgw keystone url = https://preprod.jpe1b.jaws.jio.com:13000

rgw keystone accepted roles = \_member\_, member, admin, swiftoperator, ResellerAdmin

rgw keystone revocation interval = 1000000

rgw keystone implicit tenants = true

rgw swift account in url = true

rgw s3 auth use keystone = true

rgw keystone admin user = admin

rgw keystone admin password = wQOFSzAgM3SFK8fSdps78HLdl

rgw keystone verify ssl = False

rgw keystone token cache size = 10000

rgw keystone admin project = admin

rgw keystone admin domain = default

rgw content length compat = true

**Step 15: restart rgw service**

$ systemctl restart [ceph-radosgw@rgw.ceph-rgw01.service](mailto:ceph-radosgw@rgw.ceph-rgw01.service)

$ systemctl status ceph-radosgw@rgw.ceph-rgw01.service