**(MongoDB-1 Replication)**

**Mongo Host:   
1- Server A - IP {**172.31.3.41**} which has Mongo 3.4  
2- Server B - IP {172.31.31.117} Server Instance installed 3.6 for replication  
3- Server C - IP {172.31.5.216} Arbiter for Voting**

**Comment Cron Jobs**

**Step 1: Comment Cron jobs on below servers:**

App3, App4, App5, App6, App7, App8, ML-Train (172.31.30.202)

**Stop Supervisor Service**

**Step 2: Stop Supervisor Service on below servers:**

App3, App4, App5, App6, App7, App8, ML-Train (172.31.30.202)

**Mongo Replication on DB-1**

**ALREADY DONE  
Step 3: Generate Replication Key file Authentication on Server A-DB1 {172.31.3.41}**

KEYFILE

openssl rand -base64 756 > mongo-surbo.key  
mkdir /opt/mongo  
mv ~/ mongo-surbo.key /opt/mongo  
scp /opt/mongo/ mongo-surbo.key [sunny@172.31.31.117:/opt/mongo/](mailto:sunny@192.168.1.13:/opt/mongo/) Copied on Server B & C  
chmod 400 /opt/mongo/ mongo-surbo.key  
chown mongod:mongod /opt/mongo/ mongo-surbo.key

HOST FILE

Configure host file /etc/host

172.31.31.117 rep2.surbo.io # Secondary  
XXX.XXX.XXX.XXX rep3.surbo.io # Arbiter

**ALREADY DONE  
Step 4: Need to prepare Server B-172.31.31.117 installing 3.6 Mongo**

* Installation

wget -qO - https://www.mongodb.org/static/pgp/server-3.6.asc | sudo apt-key add –

echo "deb http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.6 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.6.list

sudo apt update

sudo apt-get install mongodb-org=3.6.8 mongodb-org-mongos=3.6.8 mongodb-org-server=3.6.8 mongodb-org-shell=3.6.8 mongodb-org-tools=3.6.8

Restart the mongo service:

sudosystemctl restart mongod

* Create User -> db.createUser({user: "admin",pwd: "admin",roles: [ { role: "root", db: "admin"},{ role: "userAdminAnyDatabase", db: "admin" } ]})
* Change the configuration file of mongo

net:

port: 27017

bindIp: 127.0.0.1, **172.31.31.117** (private-ip of node)

security:  
authorization: enabled

keyFile: /opt/mongo/mongo-surbo.key

replication:

replSetName: surbo-prod

* Restart the mongo service:

sudosystemctl restart mongod

**ALREADY DONE  
Step 5: Need to prepare Server C installing 3.6 Mongo**

## Arbiter creation:

To create an arbiter install mongo on a different server and create key-path from above set.

Change the configuration file of mongo

net:

port: 27017

bindIp: 127.0.0.1,X.X.X.X (private-ip of node)

security:

keyFile: /opt/mongo/mongo-surbo.key

replication:

replSetName: surbo-prod

Restart the mongo service:

sudosystemctl restart mongod

**Replication on DB-1**

**Step 6: Now going to Replication between All servers**

**Server A –DB1 IP {172.31.3.41}**

* Changes in Mongo: /etc/mongod.conf file

net:

port: 27017

bindIp: 127.0.0.1, 172.31.3.41 (private-ip of node)

security:

keyFile: /opt/mongo/ mongo-surbo.key

replication:

replSetName: surbo-prod

sudosystemctl restart mongod

**Server A –DB1 IP {172.31.3.41}**

Start Replication and add members

mongo --host 172.31.3.41 --port 17901 -u "admin1" -p "suRb05MnG01" --authenticationDatabase "admin"

Initiate the replicaset:

rs.initiate()

add the members:

rs.add("mongo-repl-2:27017") Server - B

rs.addArb("mongo-arb:27017") Server - C

rs.conf()

**Server B-IP {172.31.31.117}**

db.getMongo().setSlaveOk()

Note: Now the current position is Server A-Mongo 3.4 & Server B- Mongo 3.6. Primary Server is Server A & Secondary is Server B. Check the replication works after upgrade & restart service

**Uncomment Cron Jobs**

**Step 7: Uncomment Cron jobs on below servers:**

App3, App4, App5, App6, App7, App8, ML-Train (172.31.30.202)

**Start Supervisor Service**

**Step 8: Start Supervisor Service on below servers:**

App3, App4, App5, App6, App7, App8, ML-Train (172.31.30.202)