MongoDB Replicaset

In AWS we created 3 ubuntu 18.04 Instances for creating mongodb replica set. Instance type - t2.micro

Initially add hostnames for all 3 nodes in the replica set.

\$ vi /etc/hosts

```
root@ip-172-31-93-200:~# cat /etc/hosts
172.31.93.200 db-node1
172.31.92.245 db-node2
172.31.84.52 db-node3
```

Install Mongodb in all 3 nodes.

\$ sudo apt-get update

\$ wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -

\$ echo "deb [arch=amd64,arm64] https://repo.mongodb.org/apt/ubuntu (lsb_release -cs)/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list

\$ sudo apt-get update

\$ sudo apt install mongodb-org -y

\$ sudo systemctl enable mongod

\$ sudo systemctl start mongod

Verify Installation:

\$ sudo systemctl status mongod

```
root@ip-172-31-93-200:~# mongo --version
MongoDB shell version v4.4.6
Build Info: {
    "version": "4.4.6",
    "gitVersion": "72e66213c2c3eab37d9358d5e78ad7f5c1d0d0d7",
    "openSSLVersion": "OpenSSL 1.1.1 11 Sep 2018",
    "modules": [],
    "allocator": "tcmalloc",
    "environment": {
        "distmod": "ubuntu1804",
        "distarch": "x86_64",
        "target_arch": "x86_64"
    }
}
```

Once we installed mongodb in Server, add replica set name unser replication in config file in all 3 nodes.

\$ nano /etc/mongod.conf

```
net:
   port: 27017
   bindIp: 127.0.0.1

# how the process runs
processManagement:
   timeZoneInfo: /usr/share/zoneinfo

#security:

#operationProfiling:
replication:
   replSetName: rs-demo
#sharding:
```

Save and exit

\$ sudo systemctl enable mongod

\$ sudo systemctl stop mongod

\$ sudo systemctl start mongod

\$ mongo

Initiate replica-set in master node using following command.

\$ rs.initiate()

\$ rs.isMaster()

\$ rs.add("172.31.92.245:27017")

\$ rs.add("172.31.84.52:27017")

\$ rs.status()

```
"_id" : 1,
"name" : "172.31.92.245:27017",
"health" : 1,
"state" : 2,
"stateStr" : "SECONDARY",
```

```
"_id" : 2,
"name" : "172.31.84.52:27017",
"health" : 1,
"state" : 2,
"stateStr" : "SECONDARY",
```

rs-demo:PRIMARY> use test-replicaset switched to db test-replicaset

```
rs-demo:PRIMARY> db.eclhur.insert({"name":"Elchuru"})
WriteResult({ "nInserted" : 1 })
```

rs-demo:PRIMARY> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
test-replicaset 0.000GB
rs-demo:PRIMARY> show collections
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rs-demo:SECONDARY> show dbs

admin 0.000GB

config 0.000GB

local 0.000GB

test-replicaset 0.000GB

rs-demo:SECONDARY> use test-replicaset
switched to db test-replicaset
rs-demo:SECONDARY> show collections

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