**Before Activity Start, we have to close Alerts from Nagios & local Server**

1. Stop App-1 to App8 & ML Train supervisor service & Comment Alerts
2. Stop Alerts from Db-1 & DB-2 if in DB-1 slave
3. Disable Alerts from Nagios for DB-1 & Db-2 & Db-1 slave

**Activity -1**

**Redis Upgrade in DB-1 & DB-1-Slave India**

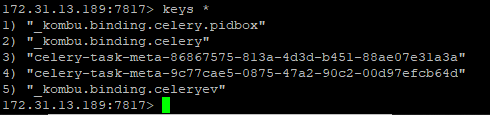
**Master DB:** 172.31.13.189 - India DB-1  **Slave DB:** 172.31.20.20 - India DB-1 Slave

**Step: 1) Take Redis Conf & Data Backup on 172.31.13.189**

**Master-Side**

* redis-cli -h 172.31.13.189 -p 7817

$ Save



* mkdir /home/sanjeet.jha/redis\_27092022
* cd /home/sanjeet.jha/redis\_27092022
* cp -r /etc/redis .
* cp -r /var/lib/redis/\* .

**Step: 2) Upgrade Redis 6.0.6 to 7.0**

**Master-Side**

* sudo add-apt-repository ppa:redislabs/redis
* sudo apt-get update
* Update in /etc/redis/redis.conf  
  supervised system  
  protected-mode no
* sudo apt-get install redis-server

# Choose Default Conf

* systemctl restart redis
* redis-cli -h 172.31.13.189 -p 7817

$ key \*

* info replication - **To check the replication status**

Text

Description automatically generated

**Step: 3) Take Redis Conf & Data Backup on 172.31.20.20**

**Slave-Side**

* mkdir /home/sanjeet.jha/redis\_27092022
* cd /home/sanjeet.jha/redis\_27092022
* cp -r /etc/redis .

**Step: 4) Upgrade Redis 6.0.6 to 7.0**

**Slave-Side**

* sudo add-apt-repository ppa:redislabs/redis
* sudo apt-get update
* Update in /etc/redis/redis.conf

supervised system

* sudo apt-get install redis

# Choose Default Conf

----------------------------------------------- Activity Complete ----------------------------------------------

---------------------------------------------------EXTRA POINTS ----------------------------------------------

Some value If require purge & configuring again replication between them:

**Master Server values**

* bind 172.31.13.189
* port 7817
* notify-keyspBot-events "Ex"
* rename-command FLUSHALL "cc15f59dt127be6c52"
* rename-command FLUSHDB "cc02d59dt127beb840f"
* rename-command DEBUG "9dt127bc15f5b840"
* rename-command SHUTDOWN SHUTDOWN\_MENOT
* rename-command CONFIG ASC12\_CONFIG

**Slave Server values**

* bind 172.31.20.20
* port 7817
* notify-keyspBot-events "Ex"
* slaveof 172.31.13.189 7817
* rename-command FLUSHALL "cc15f59dt127be6c52"
* rename-command FLUSHDB "cc02d59dt127beb840f"
* rename-command DEBUG "9dt127bc15f5b840"
* rename-command SHUTDOWN SHUTDOWN\_MENOT
* rename-command CONFIG ASC12\_CONFIG

------------------------------------------------------ END ----------------------------------------------

**Activity -2**

**Mongo Upgrade in DB-1 & DB-1 Slave India**

**Master DB:** 172.31.13.189 - India DB-1  **Slave DB:** 172.31.20.20 - India DB-1 Slave

**Connection String:**

mongo --host 172.31.13.189 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
Password: suRb05MnG01 {**FOR MASTER**}  
  
mongo --host 172.31.13.189 --port 17901 -u "botplatformtw" -p --authenticationDatabase "botplatform"  
Password: Jt!F243@yuE)07

mongo --host 172.31.20.20 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
Password: suRb05MnG01 {**FOR Slave**}

**Step: 1) Take Mongo Conf & Data Backup on 172.31.13.189**

**Master-Side**

* cd /u01/database\_bkp/mongo\_bkp
* cp -r /etc/mongo.conf .
* mongodump --host 172.31.13.189 --port 17901 -uadmin1 --out mongo\_dump\_21apr2022

password: SuRb05MnG01

**Step: 2) Upgrade on Master - Mongo 4.0 to 4.2**

**Master-Side**

* systemctl stop mongod.service
* wget -qO - https://www.mongodb.org/static/pgp/server-4.2.asc | sudo apt-key add –
* echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.2.list
* sudo apt-get update
* sudo apt-get install -y mongodb-org=4.2.18 mongodb-org-server=4.2.18 mongodb-org-shell=4.2.18 mongodb-org-mongos=4.2.18 mongodb-org-tools=4.2.18
* systemctl start mongod.service  
  **NOTE: Please don’t set compatibility at primary till upgrade on mongo slave.**db.adminCommand( { getParameter: 1, featureCompatibilityVersion: 1 } ) db.adminCommand( { setFeatureCompatibilityVersion: "4.2" } )

**Step: 3) Upgrade on Slave - Mongo 4.0 to 4.2**

**Slave-Side**

* systemctl stop mongod.service
* wget -qO - https://www.mongodb.org/static/pgp/server-4.2.asc | sudo apt-key add –
* echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.2.list
* sudo apt-get update
* sudo apt-get install -y mongodb-org=4.2.18 mongodb-org-server=4.2.18 mongodb-org-shell=4.2.18 mongodb-org-mongos=4.2.18 mongodb-org-tools=4.2.18
* systemctl start mongod.service

**Step: 4) Now Open Both Master & Slave and check Primary & secondary and run compatibility command on Master only.**

**Master-Side**

mongo --host 172.31.13.189 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
Password: suRb05MnG01 {**FOR MASTER**}

mongo --host 172.31.20.20 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
Password: suRb05MnG01 {**FOR Slave**}

* db.adminCommand( { getParameter: 1, featureCompatibilityVersion: 1 } )
* db.adminCommand( { setFeatureCompatibilityVersion: "4.2" } )

**Step: 5) Upgrade on Master - Mongo 4.2 to 4.4**

**Master-Side**

* systemctl stop mongod.service
* 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 bionic/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
* sudo apt-get update
* sudo apt-get install -y mongodb-org=4.4.11 mongodb-org-server=4.4.11 mongodb-org-shell=4.4.11 mongodb-org-mongos=4.4.11 mongodb-org-tools=4.4.11systemctl start mongod.service
* systemctl start mongod.service

**NOTE: Please don’t set compatibility at primary till upgrade on mongo slave.**db.adminCommand( { setFeatureCompatibilityVersion: "4.4" } )

**Step: 6) Upgrade on Slave - Mongo 4.0 to 4.2**

**Slave-Side**

* systemctl stop mongod.service
* 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 bionic/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
* sudo apt-get update
* sudo apt-get install -y mongodb-org=4.4.11 mongodb-org-server=4.4.11 mongodb-org-shell=4.4.11 mongodb-org-mongos=4.4.11 mongodb-org-tools=4.4.11systemctl start mongod.service
* systemctl start mongod.service

**Step: 7) Now Open Both Master & Slave and check Primary & secondary and run compatibility command on Master only.**

**Master-Side**

mongo --host 172.31.13.189 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
Password: suRb05MnG01 {**FOR MASTER**}

mongo --host 172.31.20.20 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
Password: suRb05MnG01 {**FOR Slave**}

* db.adminCommand( { getParameter: 1, featureCompatibilityVersion: 1 } )
* db.adminCommand( { setFeatureCompatibilityVersion: "4.4" } )

**Step: 8) Run below command on both Side.**

**Master-Side & Slave-Side**

* apt --fix-broken install

**Step: 9) Check master & slave status with below commands**

**Master-Side**

* mongo --host 172.31.13.189 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
  Password: suRb05MnG01
* rs.conf()
* rs.status()

**Slave-Side**

* mongo --host 172.31.20.20 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
  Password: suRb05MnG01
* db.getMongo().setSlaveOk()   
  new version use below command on secondary  
  db.getMongo().setSecondaryOk()

-------------------------------------------EXTRA POINTS ----------------------------------------------

Some value If require purge & configuring again replication between them:

**Master Server values**

**Installation Steps**

* 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 bionic/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
* sudo apt-get update
* sudo apt-get install -y mongodb-org=4.4.11 mongodb-org-server=4.4.11 mongodb-org-shell=4.4.11 mongodb-org-mongos=4.4.11 mongodb-org-tools=4.4.11

**Database Restore Steps**

* cd /u01/database\_bkp/mongo\_bkp
* mongorestore mongo\_dump\_21apr2022

**User Create command admin and surbo\_Bot**

* use admin
* db.createUser({user: "admin1",pwd: "suRb05MnG01",roles: [ { role: "root", db: "admin"},{ role: "userAdminAnyDatabase", db: "admin" } ]})   
    
  - use botplatform  
   db.createUser( { user: "botplatformtw", pwd: "Jt!F243@yuE)07", roles: [ { role: "dbOwner", db: "botplatform" } ] })

**Master Conf**

* net:

port: 17901

bindIp: 172.31.13.189

* security:

authorization: enabled

keyFile: /opt/mongo/mongo.key

* replication:

replSetName: mongo-Bot-repl

**Replication Steps**

* mongo --host 172.31.13.189 --port 17901 -u "admin1" -p --authenticationDatabase "admin"  
  Password: suRb05MnG01
* rs.initiate()
* rs.add(“172.31.20.20:17901”)
* rs.conf()
* rs.status()
* rs.isMaster()

**Set priority 0 to secondary**

* cfg = rs.conf()
* rs.reconfig(cfg)
* cfg.members[1].priority = 0
* rs.reconfig(cfg)

**Slave Server values**

**Installation Steps**

* 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 bionic/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
* sudo apt-get update
* sudo apt-get install -y mongodb-org=4.4.11 mongodb-org-server=4.4.11 mongodb-org-shell=4.4.11 mongodb-org-mongos=4.4.11 mongodb-org-tools=4.4.11

**User Create command admin**

* use admin

db.createUser({user: "admin1",pwd: "suRb05MnG01",roles: [ { role: "root", db: "admin"},{ role: "userAdminAnyDatabase", db: "admin" } ]})

**Slave Conf**

* net:

port: 17901

bindIp: 172.31.13.189

* security:

authorization: enabled

keyFile: /opt/mongo/mongo.key

* replication:

replSetName: mongo-Bot-repl

**To check Slave**

* db.getMongo().setSlaveOk()

------------------------------------------------------ END ----------------------------------------------

----------------------------------------------- Activity Complete ----------------------------------------------

---------------------------------------------------EXTRA POINTS ----------------------------------------------

Some value If require purge & configuring again replication between them:

**Master Server values**

* bind 10.35.0.98
* port 7817
* notify-keyspBot-events "Ex"
* rename-command FLUSHALL "cc15f59dt127be6c52"
* rename-command FLUSHDB "cc02d59dt127beb840f"
* rename-command DEBUG "9dt127bc15f5b840"
* rename-command SHUTDOWN SHUTDOWN\_MENOT
* rename-command CONFIG ASC12\_CONFIG

**Slave Server values**

* bind 10.35.0.242
* port 7817
* notify-keyspBot-events "Ex"
* slaveof 10.35.0.98 7817
* rename-command FLUSHALL "cc15f59dt127be6c52"
* rename-command FLUSHDB "cc02d59dt127beb840f"
* rename-command DEBUG "9dt127bc15f5b840"
* rename-command SHUTDOWN SHUTDOWN\_MENOT
* rename-command CONFIG ASC12\_CONFIG

------------------------------------------------------ END ----------------------------------------------

**Activity -3**

**RabbitMQ Upgrade in DB-2 India**

**RabbitmQ DB Server:** 172.31.6.117 - DB-2

**Step: 1) Upgrade Command**

======================check available version of rabbitMQ ======================

sudo apt list --upgradable 2>/dev/null | grep -v "-security" | grep rabbit

======================installed available version of rabbitMQ ======================

sudo apt list --upgradable 2>/dev/null | grep -v "-security" | awk -F "/" '{print $1}' | grep rabbit | xargs apt install -y

====================Check both version ======================

rabbitmqctl --version     {Should be 3.10.7}

erl --version {Should be V13.1}