Module 6 – Scalability & Availability

MongoDB Demo

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Demo:

In this demo, we will create a replica set having it's member on the same machine but different ports. We will also create an arbiter node.

1. Create folders rs1, rs2, rs3, and rsarb in C:\data directory. This is the default directory where mongo stores all the data.
2. We will change the storage folder for the data according to the replica member.
3. You also must create a folder named mongolog in C drive to store all the log files of MongoDB.
4. We will create three instances in the same system but different ports, i.e., on port 27017, 27018, and 27019. Command to create mongo replica members are:

   mongod --replSet m101 --logpath /mongolog/"1.log" --dbpath /data/rs1 --port 27017 --smallfiles --oplogSize 64

   mongod --replSet m101 --logpath /mongolog/"2.log" --dbpath /data/rs2 --port 27018 --smallfiles --oplogSize 64

   mongod --replSet m101 --logpath /mongolog/"3.log" --dbpath /data/rs3 --port 27019 --smallfiles --oplogSize 64

   Here, the name of the replica set is m101, the name of the replica members are rs1, rs2, and rs3 for port 27017, 27018, and 27019 respectively.

5. To connect a mongo shell to one of the mongod instances, enter the following command:
   mongo --port 27017
6. To create variable rsconf to store replica set configuration, enter the following command:

```
rsconf = {
        "_id": "m101",
        "members": [{
                "_id": 0,
                "host": "localhost: 27017"
        }]
}
```

7. To initiate the replica set with above configuration, enter the following command:
   rs.initiate(rsconf)

8. You will observe the following output:
   { "ok" : 1 }

9. To observe the configuration of the replica set, execute the following command:
   rs.conf()

10. To add another member to the replica set, enter the following command:

rs.add("localhost:27018")

11. you will observe the following output:
    { "ok" : 1 }
12. To create an arbiter node rsarb on port 27020, enter the following command:
    mongod --port 27020 --dbpath /srv/mongodb/rsarb --replSet rs0 --smallfiles --oplogSize 128
13. now, we will add this node to the replica set:
    rs.addArb("localhost:27020")
14. To check the status of the replica set m101, enter the following command:
    rs.status()
15. Observe the result.

This concludes the demo.

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