Step by Step replica set creation on windows.

Prerequistites

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Mongod instance already running on my system with default port 27017.

Location of binary : "C:\Program Files\MongoDB\Server\4.4\bin"

--dbpath : "C:\Program Files\MongoDB\Server\4.4\data\db"

--logpath : "C:\Program Files\MongoDB\Server\4.4\log\mongod.log"

--port   :27017

--storageEngine : "wiredTiger"

To be created as first slave node

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--dbpath "c:\data1\db"

--logpath "c:\data1\log\mongod.log"

--storageEngine "wiredTiger"

--port 27020

--replSet testrep

To be created as second slave node

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--dbpath "c:\data2\db"

--logpath "c:\data2\log\mongod.log"

--storageEngine "wiredTiger"

--port 27020

--replSet testrep

Step1 : Create below folders for both slave for database file, logfile and configuration files

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mkdir c:\data1\config c:\data1\db c:\data1\log

mkdir c:\data2\config c:\data2\db c:\data2\log

Step2 : Configuration file creation of First slave node

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cmd > cd c:\data1\log\notepad c:\data1\config\mongod.cnf

dbpath=c:\data1\db

log=c:\data1\log\mongo

port=27020

Configuration file creation of Second slave node

cmd > cd c:\data2\log\notepad c:\data2\config\mongod.cnf

dbpath=c:\data2\db

log=c:\data2\log\mongo

port=27030

Step 1) Stop services of master node which is running via services.msc .

Step 2)start mongod daemon of primary server using below modified command as replicaset

syntax

mongos --dbpath "" --logpath "" --port --storageEngine=wiredTiger --journal --replSet nameofthereplica

mongod --dbpath "C:\Program Files\MongoDB\Server\4.4\data" --logpath "C:\Program Files\MongoDB\Server\4.4\log\mongod.log" --port 27017 --storageEngine=wiredTiger --journal --replSet testreplicaset

mongo --port 27017

show dbs;

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

****

> rs.initiate(rsconf)

press enter again and primary will be prompted .

>show dbs;

prepare below config file for first slave node.

mongo --dbpath "C:\data1\db" --logpath "C:\data1\log\mongod.log" --port 27020 --storageEngine=wiredTiger --journal --replSet prodrep

verify files apperared in the db location.

prepare below command for second slave node.

mongod --dbpath "C:\data2\db" --logpath "C:\data2\log\mongod.log" --port 27030 --storageEngine=wiredTiger --journal --replSet prodrep

Add slaves to configuration

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primary > rs.add("localhost:27020");

>rs.status();

>rs.add("localhost:27030")

>rs.status();

Login to first salve node as mongoshell

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mongo --port 27020

secondary > show dbs;

>rs.slaveOk()

Login to second salve node as mongoshell

****

mongo --port 27030

secondary > show dbs;

>rs.slaveOk()

Final step:Testing of replication fo the database from Primary to secondary Node

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create a newdb on primary and check if that got replicated on first and second slave.

primary > show dbs;

>use repdb1

db.student.insert ({ "name" : "Avi" });

show dbs;

first slave node

mongo --port 27020

show dbs;

second slave node

mongo --port 27030

show dbs;