


```
Activities Terminal Mon 20:39
shubham@shubham: ~/Documents/assignments/Node/Session7

File Edit View Search Terminal Help
... { _id: 2, host: 'localhost:27019', arbiterOnly:true}
... }
... }
{
  "id" : "shubham",
  "members" : [
    {
      "_id" : 0,
      "host" : "localhost:27017"
    },
    {
      "_id" : 1,
      "host" : "localhost:27018"
    },
    {
      "_id" : 2,
      "host" : "localhost:27019",
      "arbiterOnly" : true
    }
  ]
}
rs.initiate(config);
{
  "ok" : 1,
  "$clusterTime" : {
    "clusterTime" : Timestamp(1589209762, 1),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  },
  "operationTime" : Timestamp(1589209762, 1)
}
shubham:SECONDARY>
```

```
Activities Terminal Mon 20:40
shubham@shubham: ~/Documents/assignments/Node/Session7

File Edit View Search Terminal Help
shubham:SECONDARY> rs.status();
{
  "set" : "shubham",
  "date" : ISODate("2020-05-11T15:09:57.972Z"),
  "myState" : 1,
  "term" : NumberLong(1),
  "syncingTo" : "",
  "syncSourceHost" : "",
  "syncSourceId" : -1,
  "heartbeatIntervalMillis" : NumberLong(2000),
  "majorityVoteCount" : 2,
  "writeMajorityCount" : 2,
  "optimes" : {
    "lastCommittedOpTime" : {
      "ts" : Timestamp(1589209794, 1),
      "t" : NumberLong(1)
    },
    "lastCommittedWallTime" : ISODate("2020-05-11T15:09:54.457Z"),
    "readConcernMajorityOpTime" : {
      "ts" : Timestamp(1589209794, 1),
      "t" : NumberLong(1)
    },
    "readConcernMajorityWallTime" : ISODate("2020-05-11T15:09:54.457Z"),
    "appliedOpTime" : {
      "ts" : Timestamp(1589209794, 1),
      "t" : NumberLong(1)
    },
    "durableOpTime" : {
      "ts" : Timestamp(1589209794, 1),
      "t" : NumberLong(1)
    },
    "lastAppliedWallTime" : ISODate("2020-05-11T15:09:54.457Z"),
    "lastDurableWallTime" : ISODate("2020-05-11T15:09:54.457Z")
  },
  "lastStableRecoveryTimestamp" : Timestamp(1589209774, 2)
}
```

```
Activities Terminal Mon 20:40 shubham@shubham: ~/Documents/assignments/Node/Session7
File Edit View Search Terminal Help

    "syncSourceHost" : "localhost:27017",
    "syncSourceId" : 0,
    "infoMessage" : "",
    "configVersion" : 1
  },
  {
    "_id" : 2,
    "name" : "localhost:27019",
    "health" : 1,
    "state" : 7,
    "stateStr" : "ARBITER",
    "uptime" : 34,
    "lastHeartbeat" : ISODate("2020-05-11T15:09:56.309Z"),
    "lastHeartbeatRecv" : ISODate("2020-05-11T15:09:57.809Z"),
    "pingMs" : NumberLong(0),
    "lastHeartbeatMessage" : "",
    "syncingTo" : "",
    "syncSourceHost" : "",
    "syncSourceId" : -1,
    "infoMessage" : "",
    "configVersion" : 1
  }
],
"ok" : 1,
"$clusterTime" : {
  "clusterTime" : Timestamp(1589209794, 1),
  "signature" : {
    "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
    "keyId" : NumberLong(0)
  }
},
"operationTime" : Timestamp(1589209794, 1)
}
shubham:PRIMARY> rs.status();
```

```
Activities Terminal Mon 20:40 shubham@shubham: ~/Documents/assignments/Node/Session7
File Edit View Search Terminal Help
shubham:PRIMARY> rs.status();
{
  "set" : "shubham",
  "date" : ISODate("2020-05-11T15:10:19.340Z"),
  "myState" : 1,
  "term" : NumberLong(1),
  "syncingTo" : "",
  "syncSourceHost" : "",
  "syncSourceId" : -1,
  "heartbeatIntervalMillis" : NumberLong(2000),
  "majorityVoteCount" : 2,
  "writeMajorityCount" : 2,
  "optimes" : {
    "lastCommittedOpTime" : {
      "ts" : Timestamp(1589209814, 1),
      "t" : NumberLong(1)
    },
    "lastCommittedWallTime" : ISODate("2020-05-11T15:10:14.458Z"),
    "readConcernMajorityOpTime" : {
      "ts" : Timestamp(1589209814, 1),
      "t" : NumberLong(1)
    },
    "readConcernMajorityWallTime" : ISODate("2020-05-11T15:10:14.458Z"),
    "appliedOpTime" : {
      "ts" : Timestamp(1589209814, 1),
      "t" : NumberLong(1)
    },
    "durableOpTime" : {
      "ts" : Timestamp(1589209814, 1),
      "t" : NumberLong(1)
    },
    "lastAppliedWallTime" : ISODate("2020-05-11T15:10:14.458Z"),
    "lastDurableWallTime" : ISODate("2020-05-11T15:10:14.458Z")
  },
  "lastStableRecoveryTimestamp" : Timestamp(1589209774, 2)
}
```


Activities robo3t Mon 20:46 Robo 3T - 1.3

File View Options Window Help

shubham (3)
System
config
Collections (3)
System
transactions
users
Functions
Users

Welcome x db.getCollection('users'... x db.getCollection('users'... x

shubham localhost:27017 config
db.getCollection('users').find({})

users 0.001 sec.

Key	Value	Type
(1) Objectid("5eb96c09d0f9c7da33b42a8")	{ 3 fields }	Object
_id	Objectid("5eb96c09d0f9c7da33b42a8")	Objectid
name	Shubham	String
profile	trainee	String

Logs

Activities Terminal Mon 20:50 shubham@shubham: ~/Documents/assignments/Node/Session7

File Edit View Search Terminal Help

```
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten]
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten] Remote systems will be unable to connect to this server.
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten] ** Start the server with --bind_ip <address> to specify which IP
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten] ** addresses it should serve responses from, or with --bind_ip_all to
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten] ** bind to all interfaces. If this behavior is desired, start the
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten] ** server with --bind_ip 127.0.0.1 to disable this warning.
2020-05-11T17:57:08.198+0530 I CONTROL [initandlisten]
...
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
...

shubham:PRIMARY> ^C
bye
shubham@shubham:~/Documents/assignments/Node/Session7$ kill 30701
shubham@shubham:~/Documents/assignments/Node/Session7$ mongo
MongoDB shell version v4.2.6
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
2020-05-11T20:50:26.494+0530 E QUERY [js] Error: couldn't connect to server 127.0.0.1:27017, connection attempt failed: SocketException: Error con
necting to 127.0.0.1:27017 :: caused by :: Connection refused :
connect@src/mongo/shell/mongo.js:341:17
@(connect):2:6
2020-05-11T20:50:26.495+0530 F - [main] exception: connect failed
2020-05-11T20:50:26.495+0530 E - [main] exiting with code 1
[1] Done mongod --replSet shubham --logpath "1.log" --dbpath rs1 --port 27017
shubham@shubham:~/Documents/assignments/Node/Session7$
```

```
Activities Terminal Mon 20:51
shubham@shubham: ~/Documents/assignments/Node/Session7

shubham@shubham:~/Documents/assignments/Node/Session7$ mongo --host shubham/localhost:27017,localhost:27018,localhost:27019
MongoDB shell version v4.2.6
connecting to: mongodb://localhost:27017,localhost:27018,localhost:27019/?compressors=disabled&gssapiServiceName=mongodb&replicaSet=shubham
2020-05-11T20:51:33.859+0530 I NETWORK [js] Starting new replica set monitor for shubham/localhost:27017,localhost:27018,localhost:27019
2020-05-11T20:51:33.860+0530 I CONNPOL [ReplicaSetMonitor-TaskExecutor] Connecting to localhost:27018
2020-05-11T20:51:33.860+0530 I CONNPOL [ReplicaSetMonitor-TaskExecutor] Connecting to localhost:27019
2020-05-11T20:51:33.860+0530 I CONNPOL [ReplicaSetMonitor-TaskExecutor] Connecting to localhost:27017
2020-05-11T20:51:33.861+0530 I NETWORK [ReplicaSetMonitor-TaskExecutor] Confirmed replica set for shubham is shubham/localhost:27017,localhost:27018
Implicit session: session { "id" : UUID("4154028a-136d-4110-b2e8-dbe8902512ec") }
MongoDB server version: 4.2.6
Server has startup warnings:
2020-05-11T17:57:06.371+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2020-05-11T17:57:06.371+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** Remote systems will be unable to connect to this server.
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** Start the server with --bind_ip <address> to specify which IP
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** addresses it should serve responses from, or with --bind_ip_all to
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** bind to all interfaces. If this behavior is desired, start the
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten] ** server with --bind_ip 127.0.0.1 to disable this warning.
2020-05-11T17:57:08.099+0530 I CONTROL [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.
```

```
Activities Terminal Mon 20:52
shubham@shubham: ~/Documents/assignments/Node/Session7

shubham@shubham:~/Documents/assignments/Node/Session7$ use admin
switched to db admin
shubham@shubham:~/Documents/assignments/Node/Session7$ rs-status
{
  "electionDate" : ISODate("2020-05-11T15:20:31Z"),
  "configVersion" : 1,
  "self" : true,
  "lastHeartbeatMessage" : ""
},
{
  "_id" : 2,
  "name" : "localhost:27019",
  "health" : 1,
  "state" : 7,
  "stateStr" : "ARBITER",
  "uptime" : 744,
  "lastHeartbeat" : ISODate("2020-05-11T15:21:47.098Z"),
  "lastHeartbeatRecv" : ISODate("2020-05-11T15:21:47.855Z"),
  "pingMs" : NumberLong(0),
  "lastHeartbeatMessage" : "",
  "syncingTo" : "",
  "syncSourceHost" : "",
  "syncSourceId" : -1,
  "infoMessage" : "",
  "configVersion" : 1
}
},
{
  "ok" : 1,
  "$clusterTime" : {
    "clusterTime" : Timestamp(1589210501, 1),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"),
      "keyId" : NumberLong(0)
    }
  },
  "operationTime" : Timestamp(1589210501, 1)
}
shubham@PRIMARY>
```

```
Activities Terminal Mon 20:52 shubham@shubham: ~/Documents/assignments/Node/Session7
File Edit View Search Terminal Help

    "infoMessage" : "",
    "configVersion" : -1
  },
  {
    "_id" : 1,
    "name" : "localhost:27018",
    "health" : 1,
    "state" : 1,
    "stateStr" : "PRIMARY",
    "uptime" : 10482,
    "optime" : {
      "ts" : Timestamp(1589210501, 1),
      "t" : NumberLong(3)
    },
    "optimeDate" : ISODate("2020-05-11T15:21:41Z"),
    "syncingTo" : "",
    "syncSourceHost" : "",
    "syncSourceId" : -1,
    "infoMessage" : "could not find member to sync from",
    "electionTime" : Timestamp(1589210431, 1),
    "electionDate" : ISODate("2020-05-11T15:20:31Z"),
    "configVersion" : 1,
    "self" : true,
    "lastHeartbeatMessage" : ""
  },
  {
    "_id" : 2,
    "name" : "localhost:27019",
    "health" : 1,
    "state" : 7,
    "stateStr" : "ARBITER",
    "uptime" : 744,
    "lastHeartbeat" : ISODate("2020-05-11T15:21:47.098Z"),
    "lastHeartbeatRecv" : ISODate("2020-05-11T15:21:47.855Z"),
    "syncFrom" : NumberLong(0)
  }
]
```

Activities robo3t Mon 20:54 Robo 3T - 1.3

File View Options Window Help

shubham (3)

- System
- config
 - Collections (3)
 - System
 - transactions
 - users
 - Functions
 - Users
- New Connection (3)
 - System
 - config
 - Collections (3)
 - System
 - transactions
 - users
 - Functions
 - Users

Welcome x db.getCollection('users')... x db.getCollection('users')... x db.getCollection('users')... x

New Connection localhost:27018 config

db.getCollection('users').find({})

users 0.001 sec.

Key	Value	Type
(1) ObjectId("5eb96c090d0f9c7da33b42a8")	{ 3 fields }	Object
_id	ObjectId("5eb96c090d0f9c7da33b42a8")	Objectid
name	Shubham	String
profile	trainee	String

Logs


```
Activities Terminal Mon 20:58
shubham@shubham: ~/Documents/assignments/Node/Session7

File Edit View Search Terminal Help

--wiredTigerJournalCompressor arg (=snappy)
RAM
Use a compressor for log records
[none|snappy|zlib|zstd]
--wiredTigerDirectoryForIndexes
Put indexes and data in different
directories
--wiredTigerMaxCacheOverflowFileSizeGB arg (=0)
Maximum amount of disk space to use for
cache overflow; Defaults to 0
(unbounded)
--wiredTigerCollectionBlockCompressor arg (=snappy)
Block compression algorithm for
collection data [none|snappy|zlib|zstd]
--wiredTigerIndexPrefixCompression arg (=1)
Use prefix compression on row-store
leaf pages

^C
[4]+ Exit 1 mongod --replSet shubham --logpath "4.log" --dbpath rs4 --port 29020
shubham@shubham:~/Documents/assignments/Node/Session7$ ps -ef | grep mongod
shubham 1962 30391 0 20:58 pts/0 00:00:00 grep --color=auto mongod
shubham 30702 30391 0 17:57 pts/0 00:01:20 mongod --replSet shubham --logpath 2.log --dbpath rs2 --port 27018
shubham 30741 30391 0 17:57 pts/0 00:01:17 mongod --replSet shubham --logpath 3.log --dbpath rs3 --port 27019
shubham@shubham:~/Documents/assignments/Node/Session7$ mongod --replSet shubham --logpath "4.log" --dbpath rs4 --port 27020 &
[4] 1965
shubham@shubham:~/Documents/assignments/Node/Session7$ mongod --replSet shubham --logpath "5.log" --dbpath rs5 --port 27021 &
[5] 2017
shubham@shubham:~/Documents/assignments/Node/Session7$ ps -ef | grep mongod
shubham 1965 30391 5 20:58 pts/0 00:00:00 mongod --replSet shubham --logpath 4.log --dbpath rs4 --port 27020
shubham 2017 30391 24 20:58 pts/0 00:00:00 mongod --replSet shubham --logpath 5.log --dbpath rs5 --port 27021
shubham 2054 30391 0 20:58 pts/0 00:00:00 grep --color=auto mongod
shubham 30702 30391 0 17:57 pts/0 00:01:21 mongod --replSet shubham --logpath 2.log --dbpath rs2 --port 27018
shubham 30741 30391 0 17:57 pts/0 00:01:18 mongod --replSet shubham --logpath 3.log --dbpath rs3 --port 27019
shubham@shubham:~/Documents/assignments/Node/Session7$
```

```
Activities Terminal Mon 20:59
shubham@shubham: ~/Documents/assignments/Node/Session7

File Edit View Search Terminal Help

--wiredTigerCollectionBlockCompressor arg (=snappy)
(unbounded)
Block compression algorithm for
collection data [none|snappy|zlib|zstd]
--wiredTigerIndexPrefixCompression arg (=1)
Use prefix compression on row-store
leaf pages

^C
[4]+ Exit 1 mongod --replSet shubham --logpath "4.log" --dbpath rs4 --port 29020
shubham@shubham:~/Documents/assignments/Node/Session7$ ps -ef | grep mongod
shubham 1962 30391 0 20:58 pts/0 00:00:00 grep --color=auto mongod
shubham 30702 30391 0 17:57 pts/0 00:01:20 mongod --replSet shubham --logpath 2.log --dbpath rs2 --port 27018
shubham 30741 30391 0 17:57 pts/0 00:01:17 mongod --replSet shubham --logpath 3.log --dbpath rs3 --port 27019
shubham@shubham:~/Documents/assignments/Node/Session7$ mongod --replSet shubham --logpath "4.log" --dbpath rs4 --port 27020 &
[4] 1965
shubham@shubham:~/Documents/assignments/Node/Session7$ mongod --replSet shubham --logpath "5.log" --dbpath rs5 --port 27021 &
[5] 2017
shubham@shubham:~/Documents/assignments/Node/Session7$ ps -ef | grep mongod
shubham 1965 30391 5 20:58 pts/0 00:00:00 mongod --replSet shubham --logpath 4.log --dbpath rs4 --port 27020
shubham 2017 30391 24 20:58 pts/0 00:00:00 mongod --replSet shubham --logpath 5.log --dbpath rs5 --port 27021
shubham 2054 30391 0 20:58 pts/0 00:00:00 grep --color=auto mongod
shubham 30702 30391 0 17:57 pts/0 00:01:21 mongod --replSet shubham --logpath 2.log --dbpath rs2 --port 27018
shubham 30741 30391 0 17:57 pts/0 00:01:18 mongod --replSet shubham --logpath 3.log --dbpath rs3 --port 27019
shubham@shubham:~/Documents/assignments/Node/Session7$ mongo
MongoDB shell version v4.2.6
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
2020-05-11T20:59:12.317+0530 E QUERY [js] Error: couldn't connect to server 127.0.0.1:27017, connection attempt failed: SocketException: Error con
necting to 127.0.0.1:27017 :: caused by :: Connection refused :
connect@src/mongo/shell/mongo.js:341:17
@(connect):2:6
2020-05-11T20:59:12.318+0530 F - [main] exception: connect failed
2020-05-11T20:59:12.318+0530 E - [main] exiting with code 1
shubham@shubham:~/Documents/assignments/Node/Session7$
```