

# Setting up a Sharded Cluster

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## 1. Log into mongos Console

```
[root@localhost tom]# mongo
```

```
MongoDB shell version: 2.6.3
connecting to: test
mongos>
```

## 2. List all Databases

```
mongos> show dbs
```

```
admin    (empty)
config   0.016GB
```

## 3. Switch to config database

```
mongos> use config
```

```
switched to db config
```

## 4. List all Collections

```
mongos> show collections
```

```
changelog
chunks
databases
lockpings
locks
mongos
settings
shards
system.indexes
version
```

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### 5. Add the Three Shards on Mongos

```
mongos> sh.addShard("ReplicaSetNew1/localhost.localdomain:27011")
```

```
{ "shardAdded" : "ReplicaSetNew1", "ok" : 1 }
```

```
mongos> sh.addShard("ReplicaSetNew2/localhost.localdomain:27021")
```

```
{ "shardAdded" : "ReplicaSetNew2", "ok" : 1 }
```

```
mongos> sh.addShard("ReplicaSetNew3/localhost.localdomain:27031")
```

```
{ "shardAdded" : "ReplicaSetNew3", "ok" : 1 }
```

### 6. Check Status of the sharded cluster

```
mongos> sh.status()
```

```
--- Sharding Status ---
  sharding version: {
    "_id" : 1,
    "version" : 4,
    "minCompatibleVersion" : 4,
    "currentVersion" : 5,
    "clusterId" : ObjectId("53bdcc24ecb20b84c96f5914")
  }
  shards:
    { "_id" : "ReplicaSetNew1", "host" :
"ReplicaSetNew1/localhost.localdomain:27011,localhost.localdomain:27012,localhost.localdomain:27013" }
    { "_id" : "ReplicaSetNew2", "host" :
"ReplicaSetNew2/localhost.localdomain:27021,localhost.localdomain:27022,localhost.localdomain:27023" }
    { "_id" : "ReplicaSetNew3", "host" :
"ReplicaSetNew3/localhost.localdomain:27031,localhost.localdomain:27032,localhost.localdomain:27033" }
  databases:
    { "_id" : "admin", "partitioned" : false, "primary" : "config" }
mongos>
```