

启动配置服务器 (每个)

```
#/usr/local/mongodb/bin/mongod --configsvr \  
>--dbpath /usr/local/mongodb/dbs/config/ \  
>--port 21000 --logpath /usr/local/mongodb/logs/config.log --fork
```

启动mongos(每个)

```
#/usr/local/mongodb/bin/mongos \  
>--configdb 192.168.32.128:21000,192.168.32.130:21000,192.168.32.131:21000 \  
>--port 20000 --logpath /usr/local/mongodb/logs/mongos.log --fork
```

启动片副本集 (每个)

```
#/usr/local/mongodb/bin/mongod --shardsvr --replSet shard1 \  
>--port 22001 --dbpath /usr/local/mongodb/dbs/shard1/ \  
>--logpath /usr/local/mongodb/logs/shard1.log --fork --nojournal --oplogSize 10
```

```
#/usr/local/mongodb/bin/mongod --shardsvr --replSet shard2 \  
>--port 22002 --dbpath /usr/local/mongodb/dbs/shard2/ \  
>--logpath /usr/local/mongodb/logs/shard2.log --fork --nojournal --oplogSize 10
```

```
#/usr/local/mongodb/bin/mongod --shardsvr --replSet shard3 \  
>--port 22003 --dbpath /usr/local/mongodb/dbs/shard3/ \  
>--logpath /usr/local/mongodb/logs/shard3.log --fork --nojournal --oplogSize 10
```

设置每一片副本集

第一片

```
./mongo 127.0.0.1:22001  
> config = { _id:"shard1", members:[  
    {id:0,host:"192.168.32.128:22001"},  
    {id:1,host:"192.168.32.130:22001"},  
    {id:2,host:"192.168.32.131:22001",arbiterOnly:true}  
    ]  
}
```

```
>rs.initiate(config); ## 初始化配置
```

第二片

```
./mongo 127.0.0.1:22002  
> config = { _id:"shard3", members:[  
    {id:0,host:"192.168.32.128:22002"},  
    {id:1,host:"192.168.32.130:22002"},  
    {id:2,host:"192.168.32.131:22002",arbiterOnly:true}
```

```

    ]
  }
>rs.initiate(config); ## 初始化配置
第三片
./mongo 127.0.0.1:22003
> config = { _id:"shard3", members:[
    {id:0,host:"192.168.32.128:22003"},
    {id:1,host:"192.168.32.130:22003"},
    {id:2,host:"192.168.32.131:22003",arbiterOnly:true}
  ]
}
>rs.initiate(config); ## 初始化配置

```

连接到mongos

```

./mongo 127.0.0.1:20000
use admin
##串联路由服务器与分配副本集
db.runCommand( { addshard :
"shard1/192.168.32.128:22001,192.168.32.130:22001,192.168.32.131:22001",name:"shard1"});
db.runCommand( { addshard :
"shard2/192.168.32.128:22002,192.168.32.130:22002,192.168.32.131:22002",name:"shard2"});
db.runCommand( { addshard :
"shard3/192.168.32.128:22003,192.168.32.130:22003,192.168.32.131:22003",name:"shard3"});

```

#查看分片服务器的配置

```
db.runCommand( { listshards : 1 } );
```

#指定testdb分片生效

```
db.runCommand( { enablesharding : "testdb"});
```

#指定数据库里需要分片的集合和片键

```
db.runCommand( { shardcollection : "testdb.table1",key : {id: hashed} } )
```

#使用testdb

```
use testdb;
```

#插入测试数据

```
for (var i = 1; i <= 100000; i++) db.table1.save({id:i,"test1":"testval1"});
```

#查看分片情况如下，部分无关信息省掉了

```
db.table1.stats();
```

