Replication Notes

Starting a Master/Slave Pair

Create directories for each mongod instance:

```
mkdir /data/master /data/slave
```

Start the master and the slave:

```
mongod(.exe) --dbpath /data/master --port 27017 --master

mongod(.exe) --dbpath /data/slave --port 27018 --slave --source localhost:27017
```

Starting a Replica Set

Create directories for each mongod instance:

```
mkdir /data/rs0 /data/rs1 /data/rs2
```

Start three instances of mongod:

```
mongod(.exe) --dbpath /data/rs0 --port 27017 --replSet myset

mongod(.exe) --dbpath /data/rs1 --port 27018 --replSet myset

mongod(.exe) --dbpath /data/rs2 --port 27019 --replSet myset
```

Connect to the any mongod instance:

```
mongo(.exe) --port 27018
```

Initialize the replica set:

```
> use admin
> rs.initiate()
```

Add the other members:

```
PRIMARY> rs.add('localhost:27018')
PRIMARY> rs.add('localhost:27019')
```

Config Objects

There are many optional settings that can be configured using the config object:

```
{
  _id : <setname>,
  members: [
    {
      _id : <ordinal>,
```

```
      host : <hostname[:port]>
      [, arbiterOnly : true]
      [, buildIndexes : <bool>]
      [, hidden : true]
      [, priority: <priority>]
      [, tags: {loc1 : desc1, loc2 : desc2, ..., locN : descN}]
      [, slaveDelay : <n>]
      [, votes : <n>]
    }
    , ...
  ],
  [settings: {
    [getLastErrorDefaults: <lasterrdefaults>]
    [, getLastErrorModes : <modes>]
  ]
}
```

A quick example:

```
> conf = { _id: 'myset',
...          members: [
...              { _id: 0, host: 'localhost:27017'},
...              { _id: 1, host: 'localhost:27018'},
...              { _id: 2, host: 'localhost:27019'}
...          ]
...      }

> use admin
> rs.initiate(conf)
```

To reconfigure the set:

```
PRIMARY> conf = rs.conf()
PRIMARY> conf.members[2].priority = 100
PRIMARY> rs.reconfig(conf)
```

To remove an option set it to its default setting:

```
PRIMARY> conf = rs.conf()
PRIMARY> conf.members[2].priority = 1
PRIMARY> rs.reconfig(conf)
```

Other Important Commands

```
rs.help()
rs.status()
rs.slaveOk()
db.printReplicationInfo()
db.printSlaveReplicationInfo()
```