Replication cont’d

**Stepping Down a Member**

The method runs only if the current member is a primary node and produce an error if runs on a non-primary member. rs.stepDown() instructs the current Primary node of the replica set to become a secondary which forces an election. After the primary steps down, eligible secondary nodes hold an election for primary.

**Syntax**

```
rs.stepDown(stepDownPeriod, secondaryCatchUpPeriod)
```

where,

- **stepDownPeriod** - Specifies the number of seconds to step down the primary, during this time the stepdown member is ineligible for becoming primary. By default it is 60 seconds. It must be greater than the secondaryCatchUpPeriod.

- **secondaryCatchUpPeriod** – specifies the number of seconds that mongod will wait for an electable secondary to catch up to the primary. This is Optional. The default wait time is 10 seconds.

rs.stepDown() method will not immediately step down the primary. If no electable secondary node is up to date with the primary, the primary waits up to secondaryCatchUpPeriod for a secondary node to catch up. Once an electable secondary is available, the method steps down the primary. Once stepped down, the original primary becomes a secondary and is ineligible from becoming primary again for the remainder of time specified by stepDownPeriod.
Syncing from a member

rs.syncFrom() methods sets the secondary replica set member will sync from the specified member, overriding the default sync target selection logic.

Syntax

```
rs.syncForm("[hostname]:[port]")
```

Example

```
rs.syncFrom("127.0.0.1:27021")
```
Read Operation on Secondary Member

rs.slaveOk() method allows the current connection to allow read operations to run on secondary members. i.e. allow users to run commands in the secondary or arbiter node.

Syntax

rs.slaveOk()

Printing the oplog of the replica set

- rs.printReplicationInfo() method prints the report of the replica set member’s oplog from the perspective of the Primary Member.

Syntax

rs.printReplicationInfo()
rs.printSlaveReplicationInfo() method prints the report of the replica set member's oplog from the perspective of the Secondary Members of the Set.

**Syntax**

```
rs.printSlaveReplicationInfo()
```

**Stopping a Member**

db.shutdownServer() method is used to shut down or stopping a member. It may be a secondary member. This command will run only with admin database.

**Syntax**

```
db.shutdownServer()
```
Assignment

1. How a member can be Step?
2. How to shut down a member?