How to Destroy MongoDB Replication on Windows

How to Configure MongoDB Replica Set on Windows

Prerequisites

- MongoDB installed on each node.

- Each instance must have a unique data folder and port.

- Nodes must be able to ping each other (use localhost for single-machine setup).

- Use different ports if running multiple instances on one machine.

- Ensure firewall allows traffic on the used ports.

Step 1: Create Folders (for single-machine setup)

mkdir C:\mongodb\repl1\data

mkdir C:\mongodb\repl2\data

mkdir C:\mongodb\repl3\data

Step 2: Create Config Files

Create the following files:

C:\mongodb\repl1\mongod.cfg:

  systemLog:

    destination: file

    path: C:\mongodb\repl1\mongod.log

  storage:

    dbPath: C:\mongodb\repl1\data

  net:

    bindIp: 127.0.0.1

    port: 27017

  replication:

    replSetName: rs0

Repeat similarly for repl2 (port 27018) and repl3 (port 27019).

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Step 3: Start All 3 MongoDB Instances

Open 3 Command Prompts:

mongod --config C:\mongodb\repl1\mongod.cfg

mongod --config C:\mongodb\repl2\mongod.cfg

mongod --config C:\mongodb\repl3\mongod.cfg

Step 4: Initialize the Replica Set

Open mongosh on port 27017:

mongosh --port 27017

Then run:

```
rs.initiate({
  _id: "rs0",
  members: [
    { _id: 0, host: "localhost:27017" },
    { _id: 1, host: "localhost:27018" },
    { _id: 2, host: "localhost:27019" }
  ]
})
```

Step 5: Verify

In mongosh:

rs.status()

You should see the replica set configuration and member states.

Tips

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- Use real hostnames or IPs for remote machines.

- Add priority: 0 and votes: 0 for hidden or non-voting members.

- You can install mongod as a Windows service using mongod.exe --install.