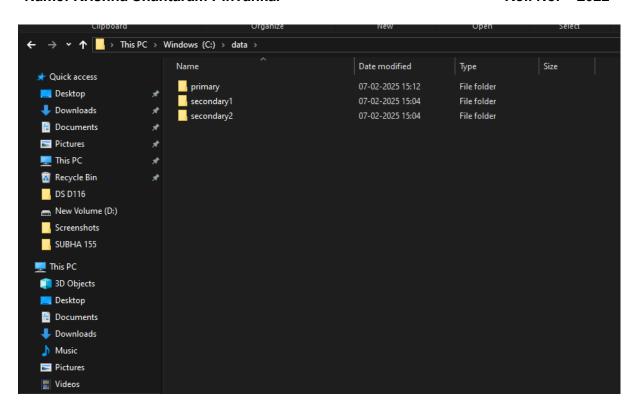
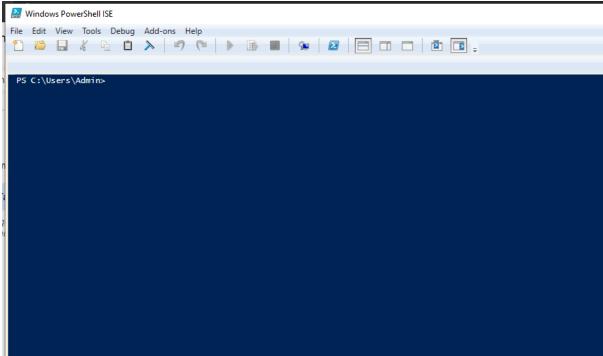
Practical-5: Replication using Mangodb

Name: Krishna Shantaram Pinvankar

Roll No. - L022





```
Windows PowerShell
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 Try the new cross-platform PowerShell https://aka.ms/pscore6
 PS C:\Users\Admin> mongod --port=2737 --dbpath="C:\data\secondary2" --replSet="test-replica-set"
{"t":{"$date":"2025-02-07T15:18:13.663+05:30"},"s":"I", "c":"NETWORK", "id":4915701, "ctx":"thread1","msg":"Initi
d wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":21},"incomingIr
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Admin> mongod --port=2737 --dbpath="C:\data\secondary2" --replSet="test-replica-set"
{"t":{"$date":"2025-02-07715:18:13.663+05:30"},"s":"I", "c":"NETWORK", "id":4915701, "ctx":"thread1","msg":"Initialize
d wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":21},"incomingInterna
lClient":{"minWireVersion":0,"maxWireVersion":21},"outgoing":{"minWireVersion":6,"maxWireVersion":21},"isInternalClient"
                                                                                             --replSet="test-replica-set"
K", "id":4915701, "ctx":"thread1","msg":"Initialize
 true}}}
{"t":{"$date":"2025-02-07715:18:15.199+05:30"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"thread1","msg":"Automatica
lly disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2025-02-07715:18:15.200+05:30"},"s":"I", "c":"NETWORK", "id":4648602, "ctx":"thread1","msg":"Implicit T
CP FastOpen in use."}
 PS C:\Users\Admin> mongosh --host="localhost:2717
 Current Mongosh Log ID: 67a5d78f72b5dd16cab522e1
 Connecting to:
 Using MongoDB:
                                    7.0.6
 Using Mongosh:
 mongosh 2.3.8 is available for download: https://www.mongodb.com/try/download/shell
 For mongosh info see: https://docs.mongodb.com/mongodb-shell/
      The server generated these startup warnings when booting
      2025-02-07T15:11:04.544+05:30: Access control is not enabled for the database. Read and write access to data
              test> rs.initiate()
                 info2: 'no configuration specified. Using a default configuration fo
                 me: 'localhost:2717',
                 ok: 1
              test-replica-set [direct: other] test>
test-replica-set [direct: other] test> rs.add({host:"localhost:2727"});
   ok: 1,
       clusterTime: Timestamp({ t: 1738922325, i: 1 }),
       signature: {
           hash: Binary.createFromBase64('AAAAAAAAAAAAAAAAAAAAAAAAAa, 0),
```

keyId: Long('0')

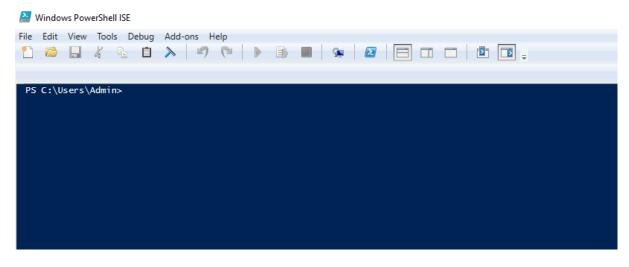
operationTime: Timestamp({ t: 1738922325, i: 1 })

```
test-replica-set [direct: primary] test> rs.status()
{
   set: 'test-replica-set',
   date: ISODate('2025-02-07T10:01:44.534Z'),
   myState: 1,
   term: Long('I'),
   syncSourceHost: '',
   syncSourceId: -1,
   heartbeatIntervalMillis: Long('2000'),
   majorityVoteCount: 2,
   writeMajorityCount: 2,
   votingMembersCount: 2,
   votingMembersCount: 2,
   optimes: {
     lastCommittedOpTime: { ts: Timestamp({ t: 1738922502, i: 1 }), t: Local L
```





```
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Admin> mongosh --host="localhost:2727'
Current Mongosh Log ID: 67a5dab032a291200a9a43d9
Connecting to:
                             mongodb://localhost:2727/?directConnection=true&serverSelectionTimeoutMS=2000&a
Using MongoDB:
                             7.0.6
Using Mongosh:
                              2.1.5
mongosh 2.3.9 is available for download: https://www.mongodb.com/try/download/shell
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
   The server generated these startup warnings when booting 2025-02-07T15:16:51.994+05:30: Access control is not enabled for the database. Read and write access
iguration is unrestricted
  2025-02-07T15:16:51.995+05:30: This server is bound to localhost. Remote systems will be unable to c
rver. Start the server with --bind_ip <address> to specify which IP addresses it should serve responses
bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127
 this warning
test-replica-set [direct: secondary] test> 🕳
```



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Admin> mongosh --host="localhost:2737"
Current Mongosh Log ID: 67a5dafc45a473315d7d3755
Connecting to: mongodb://localhost:2737/?directConnection=true&serverSelect=
1.5
MongoServerSelectionError: Server selection timed out after 2000 ms
PS C:\Users\Admin>
```

```
test-replica-set [direct: primary] test> show dbs
admin 80.00 KiB
config 212.00 KiB
local 404.00 KiB
test-replica-set [direct: primary] test> _
```

```
test-replica-set [direct: secondary] test> show dbs
                admin 80.00 KiB
                config 276.00 KiB
                local 404.00 KiB
                test-replica-set [direct: secondary] test> 🕳
                      404.00 K1B
              test-replica-set [direct: primary] test> use practice
              switched to db practice
              test-replica-set [direct: primary] practice>
test-replica-set [direct: primary] practice> db.users.insert({name:
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
 acknowledged: true,
insertedIds: { '0': ObjectId('67a5dd8e72b5dd16cab522e2') }
,
test-replica-set [direct: primary] practice>
          test-replica-set [direct: primary] practice> db.users.find()
          [ { _id: ObjectId('
                                                        e2'), name: 'kashaf' } ]
          test-replica-set [direct: primary] practice> _
             test-replica-set [direct: secondary] test> use practice
            switched to db practice
            test-replica-set [direct: secondary] practice>
 test-replica-set [direct: secondary] practice> db.users.find()
                            SecondaryOk]: not primary - consider using db.getMongo().setReadPref() or
  the connection string
 test-replica-set [direct: secondary] practice> db.getMongo().setReadPref("secondaryPreferred")
 test-replica-set [direct: secondary] practice> 🕳
```

```
stest-replica-set [direct: secondary] practice> db.users.find()
[[ { _id: ObjectId('67a5dd8e72b5dd16cab522e2'), name: 'kashaf' } ]
test-replica-set [direct: secondary] practice>
```

```
daryOk]: not primary - consider using db.getMongo().setReadPref(
the connection string
test-replica-set [direct: secondary] practice> db.getMongo().setReadPref("secondaryPreferred")
test-replica-set [direct: secondary] practice> db.users.find()
[ { _id: ObjectId('
                                             '), name: 'kasha
test-replica-set [direct: secondary] practice> db.users.find()
  { _id: ObjectId('67a5dd8e72b5dd16cab522e2'), name: 'kashaf' },
   _id: ObjectId('67a5e5ef72b5dd16cab522e4'),
username: 'jane_smith',
   age: 30,
   status:
    _id: ObjectId('67a5e5ef72b5dd16cab522e5'),
   username: 'alice_jones',
   age: 28,
   status: 'active'
    _id: ObjectId('67a5e5ef72b5dd16cab522e3'),
   username: 'john_doe',
   age: 25,
   status: 'active'
test-replica-set [direct: secondary] practice>
```

```
test-replica-set [direct: primary] practice> db.users.deleteMany({})
{ acknowledged: true, deletedCount: 4 }
test-replica-set [direct: primary] practice> 
admin 80.00 KiB
config 212.00 KiB
local 404.00 KiB
```

```
test-replica-set [direct: secondary] practice> db.users.find()

test-replica-set [direct: secondary] practice>
```