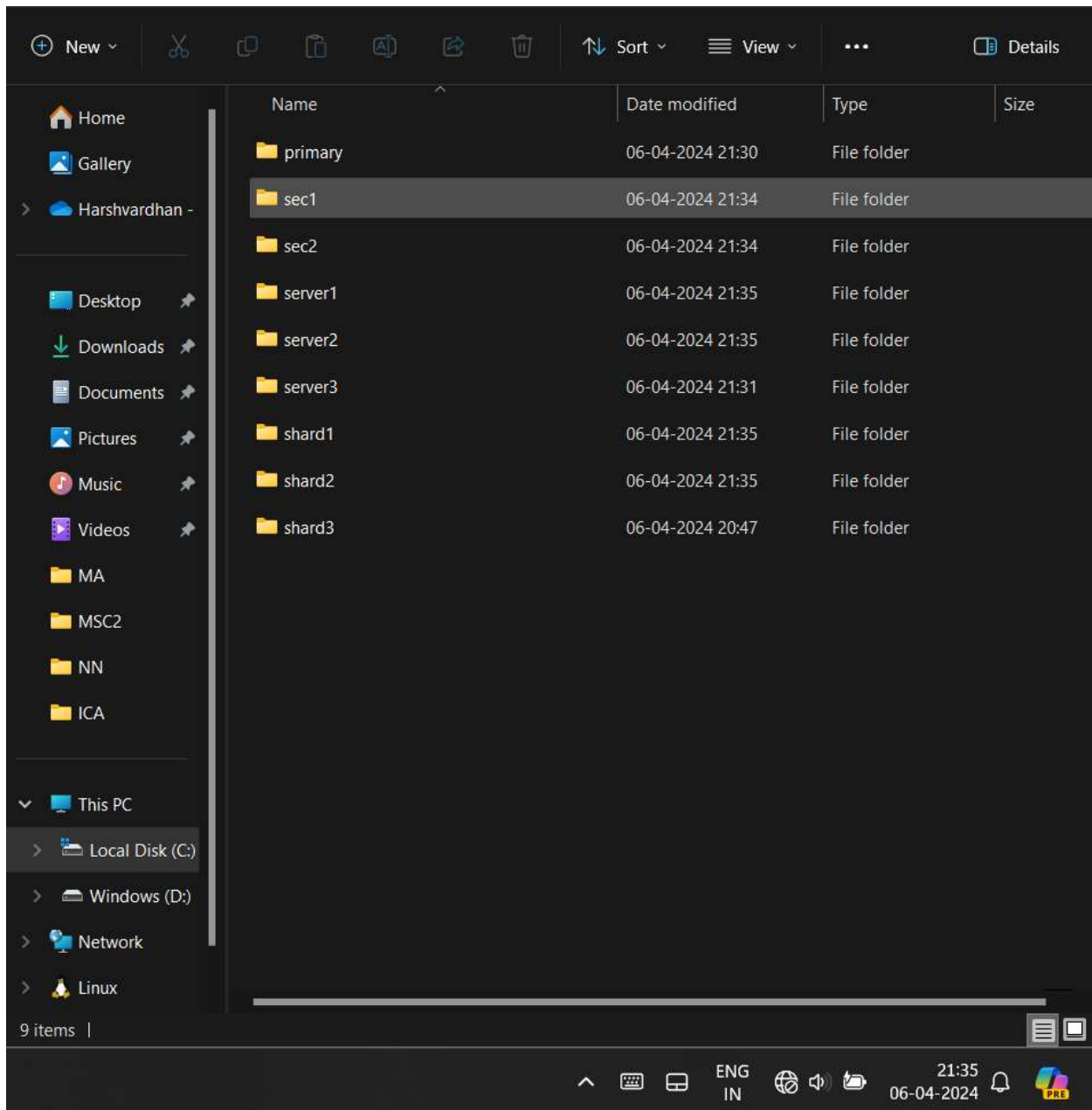# AIM :- Sharding

CODE And Output

STEP 01 : Create Folder Of Primary , Sec1 , Sec2 , Server1 , Server2, Shard1 , Shard2

STEP 02 :- start mongod --port=50001 --replSet="Server1" --dbpath="(folder path)/primary" same for all sec1 and sec2


```
Microsoft Windows [Version 10.0.22631.3374]
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C:\ICA>start mongod --port=5001 --replSet="server1" --dbpath="C:\ICA\primary
"

C:\ICA>start mongod --port=5002 --replSet="server1" --dbpath="C:\ICA\sec1"

C:\ICA>start mongod --port=5003 --replSet="server1" --dbpath="C:\ICA\sec2"

C:\ICA>
```

STEP 03 :- In cmd mongosh –port=5001 and then rs.initiate()

```
C:\Users\harshvardhan bhosale>mongosh --port=5001
Current Mongosh Log ID: 66116f2697a1ac04a0940889
Connecting to:          mongodb://127.0.0.1:5001/?directConn
erSelectionTimeoutMS=2000&appName=mongosh+1.5.4
Using MongoDB:          4.2.22-rc0
Using Mongosh:          1.5.4
```

```
Warning: Found ~/.mongorc.js, but not ~/.mongoshrc.js. ~/.mongorc.js will no
t be loaded.
  You may want to copy or rename ~/.mongorc.js to ~/.mongoshrc.js.
test> rs.initiate({_id:"server1", members:[{_id:0 , host:'localhost:5001'},{
_id:1 , host:'localhost:5002'},{_id:2 , host:'localhost:5003'} ] });
{ ok: 1 }
test> 
```

STEP 04 :- Config your server use this :- mongod --configsvr --port=1010 -- replSet="Server1" --dbpath="(folder path)/server1" as same for all server2 and server3

STEP 05 :- open cmd and mongosh with localhost 1010

```
test> rs.initiate({
...        _id:"server1",
...        configsvr:true,
...        members:[
...             {_id:0, host:"localhost:1010"},
...             {_id:1, host:"localhost:1020"},
...             {_id:2, host:"localhost:1030"}
...        ]
... });
{
  ok: 1,
  '$gleStats': {
    lastOpTime: Timestamp({ t: 1712419086, i: 1 }),
    electionId: ObjectId("000000000000000000000000")
  },
  lastCommittedOpTime: Timestamp({ t: 0, i: 0 })
}
test> |
```

STEP 06 :- now shard the server use this :- mongod --shardsvr --port=1130 --dbpath="(folder path)/shard1" --replSet="Server1" use this for all other shards


```
C:\Windows\System32\cmd.e    ×    +    ∨

Microsoft Windows [Version 10.0.22631.3374]
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C:\ICA>mongod --shardsvr --port=1130 --dbpath="C:\ICA\shard1" --replSet="ser
ver1"
2024-04-06T21:29:43.981+0530 I  CONTROL  [main] Automatically disabling TLS
```



```
Command Prompt - mongod    ×    +    ∨

Microsoft Windows [Version 10.0.22631.3374]
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C:\Users\harshvardhan bhosale>mongod --shardsvr --port=1140 --dbpath="C:\ICA
\shard2" --replSet="server1"
2024-04-06T21:30:16.068+0530 I  CONTROL  [main] Automatically disabling TLS
1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
```

STEP 07 :- Mongosh –host="localhost:1140" yout sharding is complete

```
C:\Users\harshvardhan bhosale>mongosh --host="localhost:1140"
Current Mongosh Log ID: 6611727ca515fef869d6b0be
Connecting to:          mongodb://localhost:1140/?directConnection=true&serv
erSelectionTimeoutMS=2000&appName=mongosh+1.5.4
Using MongoDB:          4.2.22-rc0
Using Mongosh:          1.5.4
```

```
   You may want to copy or rename ~/.mongorc.js to ~/.mongoshrc.js.
test> rs.initiate({
...     _id:"server1",
...     members: [
...         {_id: 0, host: "localhost:1130"},
...         {_id: 1, host: "localhost:1140"},
...     ]
... });
{ ok: 1 }
test> |
```

ENG
IN

21:42
06-04-2024