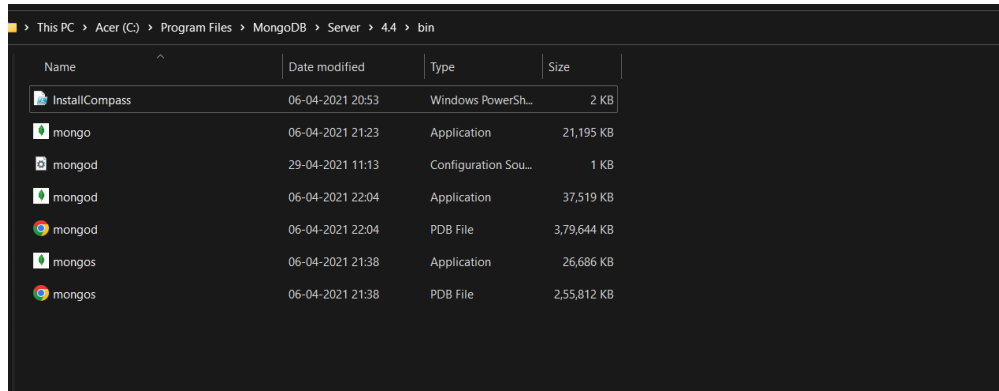


Steps need to follow to Understand MongoDB

Step1:

Go to this location and open cmd



Step 2:

Enter the command “mongod”

```
C:\Windows\System32\cmd.e x + v
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\MongoDB\Server\4.4\bin>mongod
{"t":{"$date":"2023-02-24T19:12:49.425+05:30"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"main","msg":"Automatically disabling TLS 1.0, to force-enable
TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2023-02-24T19:12:49.491+05:30"},"s":"W", "c":"ASIO", "id":22601, "ctx":"main","msg":"No TransportLayer configured during NetworkInterf
ace startup"}
{"t":{"$date":"2023-02-24T19:12:49.493+05:30"},"s":"I", "c":"NETWORK", "id":4648602, "ctx":"main","msg":"Implicit TCP FastOpen in use."}
{"t":{"$date":"2023-02-24T19:12:49.501+05:30"},"s":"I", "c":"STORAGE", "id":4615611, "ctx":"initandlisten","msg":"MongoDB starting","attr":{"pid":9232,"po
rt":27017,"dbPath":"C:/data/db/","architecture":"64-bit","host":"VISHAL"}}
{"t":{"$date":"2023-02-24T19:12:49.502+05:30"},"s":"I", "c":"CONTROL", "id":23398, "ctx":"initandlisten","msg":"Target operating system minimum version
","attr":{"targetMinOS":"Windows 7/Windows Server 2008 R2"}}
{"t":{"$date":"2023-02-24T19:12:49.503+05:30"},"s":"I", "c":"CONTROL", "id":23403, "ctx":"initandlisten","msg":"Build Info","attr":{"buildInfo":{"versio
n":"4.4.5","gitVersion":"ff5cb77101b052fa02da43b8538093486cf9b3f7","modules":[],"allocator":"tcmalloc","environment":{"distmod":"windows","distarch":"x86_64
","target_arch":"x86_64"}}}}
{"t":{"$date":"2023-02-24T19:12:49.504+05:30"},"s":"I", "c":"CONTROL", "id":51765, "ctx":"initandlisten","msg":"Operating System","attr":{"os":{"name":"
Microsoft Windows 10","version":"10.0 (build 22621)"}}}
{"t":{"$date":"2023-02-24T19:12:49.504+05:30"},"s":"I", "c":"CONTROL", "id":21951, "ctx":"initandlisten","msg":"Options set by command line","attr":{"op
tions":{}}}}
{"t":{"$date":"2023-02-24T19:12:49.547+05:30"},"s":"I", "c":"STORAGE", "id":22270, "ctx":"initandlisten","msg":"Storage engine to use detected by data f
iles","attr":{"dbpath":"C:/data/db/","storageEngine":"wiredTiger"}}
{"t":{"$date":"2023-02-24T19:12:49.550+05:30"},"s":"I", "c":"STORAGE", "id":22315, "ctx":"initandlisten","msg":"Opening WiredTiger","attr":{"config":"cr
eate,cache_size=3505M,session_max=33000,eviction=(threads_min=4,threads_max=4),config_base=false,statistics=(fast),log=(enabled=true,archive=true,path=journ
al,compressor=snappy),file_manager=(close_idle_time=100000,close_scan_interval=10,close_handle_minimum=250),statistics_log=(wait=0),verbose=[recovery_progre
ss,checkpoint_progress,compact_progress],"}}
{"t":{"$date":"2023-02-24T19:12:50.213+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246170:212907][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 25 through 26"}}
{"t":{"$date":"2023-02-24T19:12:50.419+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246170:418597][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 26 through 26"}}
{"t":{"$date":"2023-02-24T19:12:50.549+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246170:548761][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY | WT_VERB_RECOVERY_PROGRESS] Main recovery loop: starting at 25/82816 to 26/256"}}
{"t":{"$date":"2023-02-24T19:12:50.851+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246170:851323][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 25 through 26"}}
{"t":{"$date":"2023-02-24T19:12:51.195+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246171:195624][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY_PROGRESS] Recovering log 26 through 26"}}
{"t":{"$date":"2023-02-24T19:12:51.506+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246171:506307][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY | WT_VERB_RECOVERY_PROGRESS] Set global recovery timestamp: (0, 0)}}
{"t":{"$date":"2023-02-24T19:12:51.506+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246171:506307][9232:140721542080336], txn-recover: [WT_VERB_RECOVERY | WT_VERB_RECOVERY_PROGRESS] Set global oldest timestamp: (0, 0)}}
{"t":{"$date":"2023-02-24T19:12:51.799+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message","attr":{"message":"[
1677246171:798557][9232:140721542080336], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 1, snapshot max: 1 snapshot c
```

Step 3: Use the Same File Location

> This PC > Acer (C:) > Program Files > MongoDB > Server > 4.4 > bin

Name	Date modified	Type	Size
InstallCompass	06-04-2021 20:53	Windows PowerSh...	2 KB
mongo	06-04-2021 21:23	Application	21,195 KB
mongod	29-04-2021 11:13	Configuration Sou...	1 KB
mongod	06-04-2021 22:04	Application	37,519 KB
mongod	06-04-2021 22:04	PDB File	3,79,644 KB
mongos	06-04-2021 21:38	Application	26,686 KB
mongos	06-04-2021 21:38	PDB File	2,55,812 KB

Step 4:

Open a new cmd with this file location.

```
C:\Windows\System32\cmd.e  x  +  v

Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\MongoDB\Server\4.4\bin>mongo
MongoDB shell version v4.4.5
connecting to: mongod://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod
Implicit session: session { "id" : UUID("b0d87908-b80c-4866-a301-03b900e381a0") }
MongoDB server version: 4.4.5
---
The server generated these startup warnings when booting:
  2023-02-16T23:17:28.554+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
  Enable MongoDB's free cloud-based monitoring service, which will then receive and display
  metrics about your deployment (disk utilization, CPU, operation statistics, etc).

  The monitoring data will be available on a MongoDB website with a unique URL accessible to you
  and anyone you share the URL with. MongoDB may use this information to make product
  improvements and to suggest MongoDB products and deployment options to you.

  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
```

Step 5:

To create a new database just type “use DatabaseName”

```
> use employee
switched to db employee
```

Step 6: To check databases

Just type “show dbs”

```
> show dbs
DBMS          0.000GB
Eduureka      0.000GB
Flipkart      0.000GB
```

Step 7:

To insert data in the database

Just type this command.

```
> db.employee.insert({"name": "vishal"})
WriteResult({ "nInserted" : 1 })
```

Step 8: To Drop the Database

```
> employee.dropDatabase()
uncaught exception: ReferenceError: employee is not defined :
@(:shell):1:1
> db.dropDatabase()
{ "dropped" : "employee", "ok" : 1 }
> db.dropDatabase()
{ "ok" : 1 }
```

Step 9: To Create new Collection

```
> db.createCollection("School")
{ "ok" : 1 }
>
```

Step 10:

To see collections

```
> show collections
School
biodata
```

Step 11:

Insert Data into collection

Command: `db.collectionName.insert({"name": "Vishal"})`

```
> db.School.insert({"name": "Vishal"})
WriteResult({ "nInserted" : 1 })
```

Step 12:

To see if Data is present in the collection

Command: `db.collectionName.find()`

```
> db.School.find()
{ "_id" : ObjectId("63f8cb7246982d5dc4acf6cc"), "name" : "Vishal" }
```

Step 13:

To Insert multiple data at the same time just follow this command

```
> db.empDetails.insertMany( [ { First_Name: "Radhika", Last_Name: "Sharma", Date_Of_Birth: "1995-09-26", e_mail: "radhika_sharma.123@gmail.com", phone: "9000012345" }, { First_Name: "Rachel", Last_Name: "Christopher", Date_Of_Birth: "1990-02-16", e_mail: "Rachel_Christopher.123@gmail.com", phone: "9000054321" }, { First_Name: "Fathima", Last_Name: "Sheik", Date_Of_Birth: "1990-02-16", e_mail: "Fathima_Sheik.123@gmail.com", phone: "9000054321" } ] )
```

Output of success

```
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("63f8cf5f46982d5dc4acf6ce"),
    ObjectId("63f8cf5f46982d5dc4acf6cf"),
    ObjectId("63f8cf5f46982d5dc4acf6d0")
  ]
}
```