

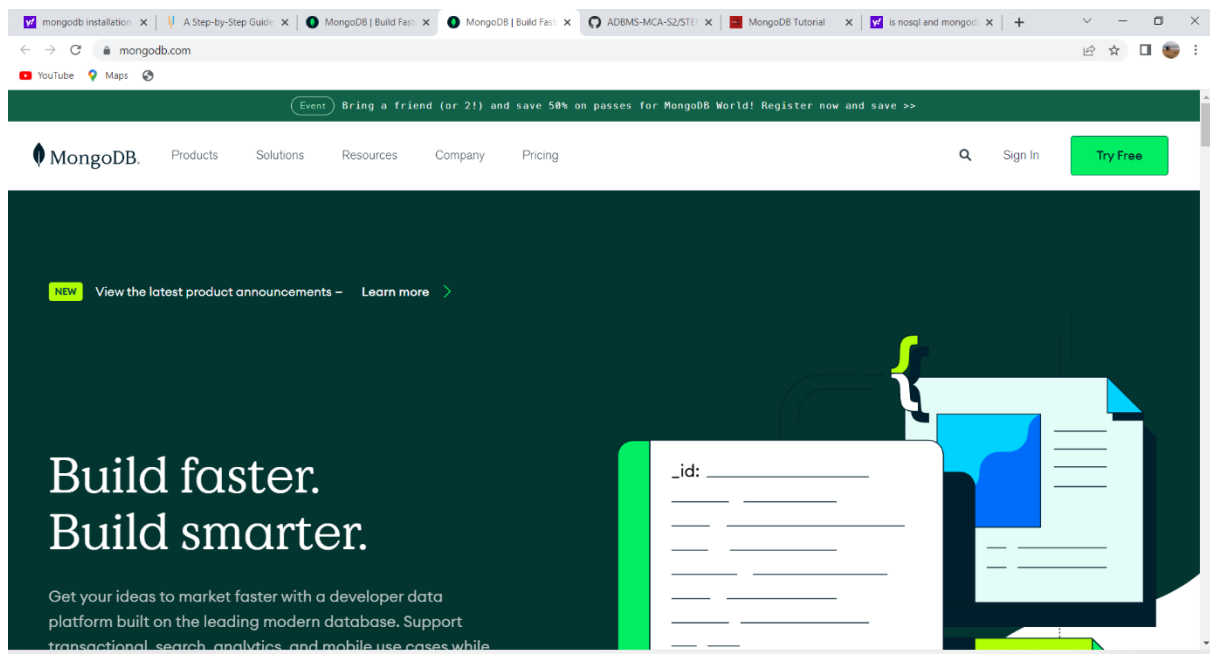
# INSTALLATION OF MONGODB

**AIM:** To understand the installation and configuration of NoSQL Databases.

MongoDB is a cross-platform, document oriented NoSql database that provides, high performance, high availability, and easy scalability. MongoDB works on concept of collection and document.

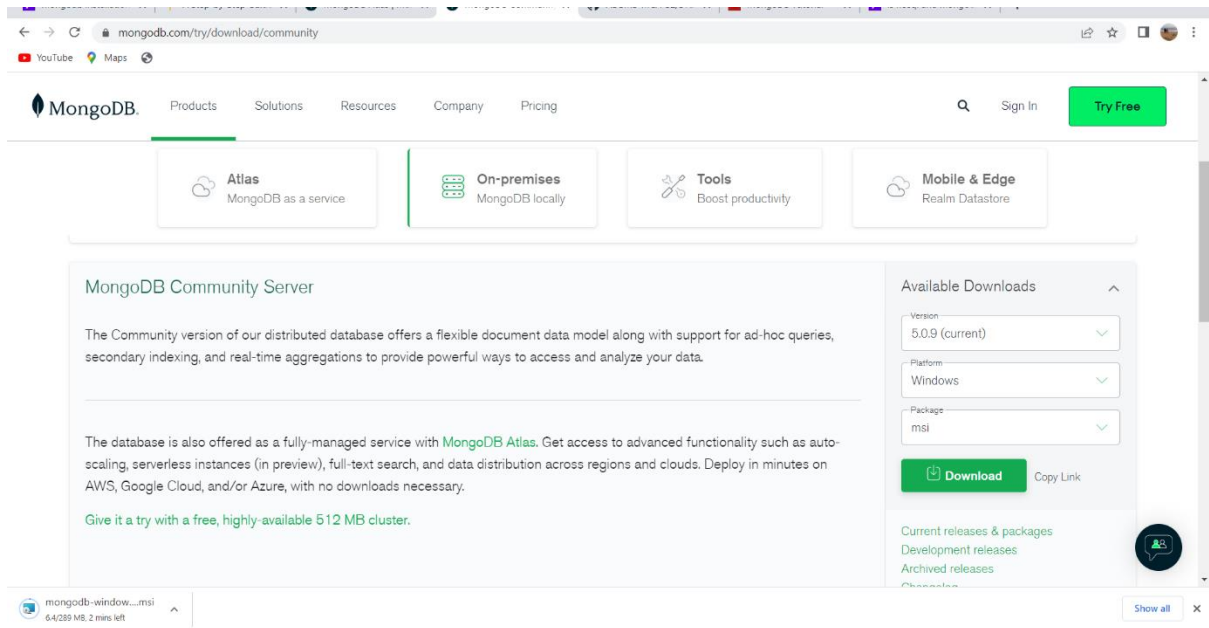
## STEP 1:

Navigate to the official MongoDB website.



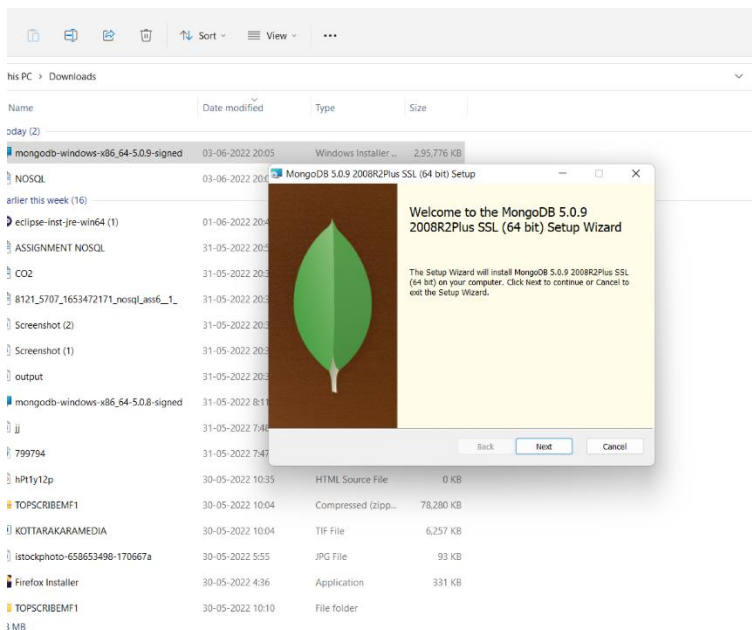
## STEP 2:

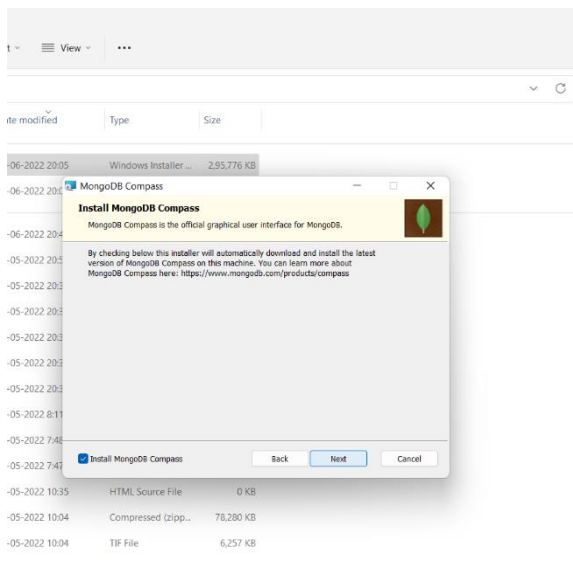
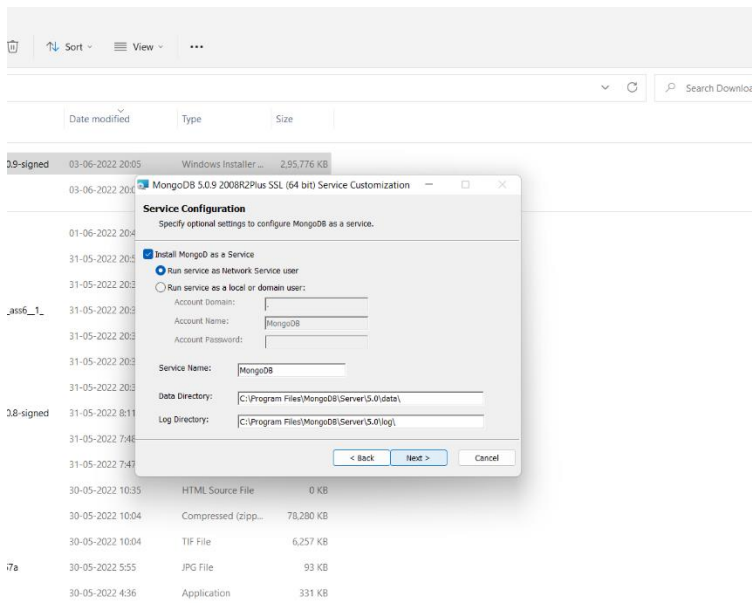
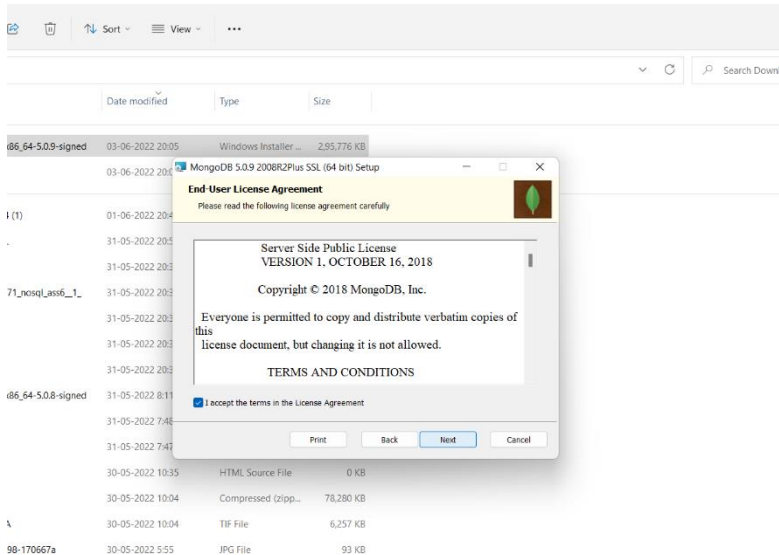
Under the products section, click on the Community server version. Make sure that the specifications to the right of the screen are correct. At the time of writing, the latest version is 4.4.5. Ensure that the platform is Windows, and the package is MSI. Go ahead and click on download.

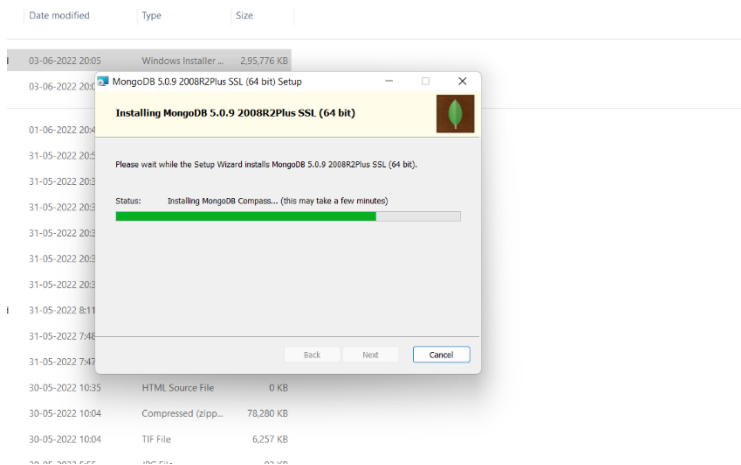
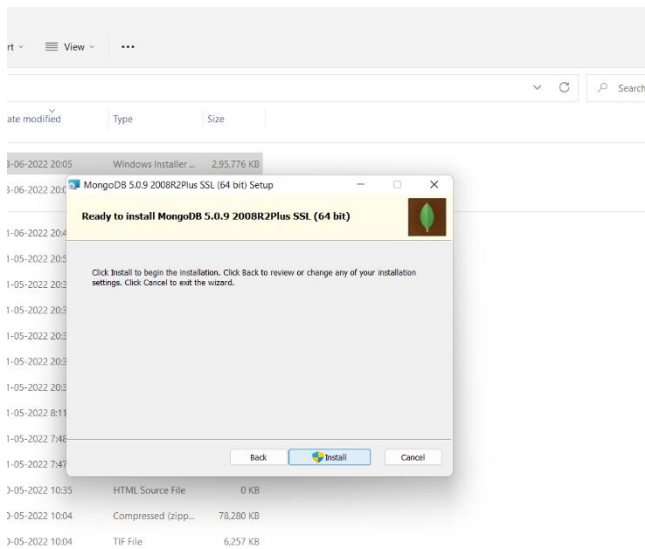


### **STEP 3:**

You can find the downloaded file in the downloads directory. Install the software step by step.

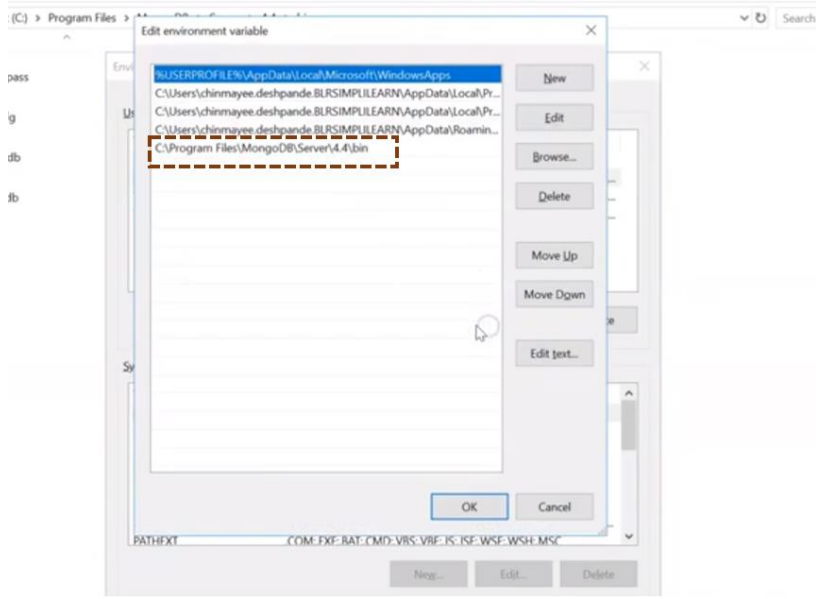






## **STEP:4**

create an environment variable for the executable file so that we don't have to change the directory structure every time we want to execute the file.



## STEP:5

After creating an environment path, we can open the command prompt and type mongod and then mongo.

```
C:\Program Files\MongoDB\Server\5.0\bin>mongod
{"t":{"sdate":"2022-06-03T20:32:33.618+05:30"},"s":"I", "c":"NETWORK", "id":6915701, "ctx":"main","msg":"Initialized wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":13},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":13},"isInternalClient":true}}}, {"t":{"sdate":"2022-06-03T20:32:33.624+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":{"sdate":"2022-06-03T20:32:34.269+05:30"},"s":"I", "c":"ASIO", "id":22601, "ctx":"main","msg":"No TransportLayer configured during NetworkInterface startup"}, {"t":{"sdate":"2022-06-03T20:32:34.270+05:30"},"s":"I", "c":"NETWORK", "id":4648602, "ctx":"main","msg":"Implicit TCP FastOpen in use."}, {"t":{"sdate":"2022-06-03T20:32:34.272+05:30"},"s":"I", "c":"ASIO", "id":22601, "ctx":"main","msg":"No TransportLayer configured during NetworkInterface startup"}, {"t":{"sdate":"2022-06-03T20:32:34.272+05:30"},"s":"I", "c":"REPL", "id":5123008, "ctx":"main","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorService","ns":"config.tenantMigrationDonors"}}, {"t":{"sdate":"2022-06-03T20:32:34.272+05:30"},"s":"I", "c":"REPL", "id":5123008, "ctx":"main","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","ns":"config.tenantMigrationRecipients"}}, {"t":{"sdate":"2022-06-03T20:32:34.272+05:30"},"s":"I", "c":"CONTROL", "id":5945603, "ctx":"main","msg":"Multi threading initialized"}, {"t":{"sdate":"2022-06-03T20:32:34.273+05:30"},"s":"I", "c":"CONTROL", "id":4615611, "ctx":"initandlisten","msg":"MongoDB starting","attr":{"pid":22348,"port":27017,"dbPath":"C:/data/db/","architecture":"64-bit","host":"DESKTOP-0M0R9K0"}}, {"t":{"sdate":"2022-06-03T20:32:34.273+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":{"sdate":"2022-06-03T20:32:34.273+05:30"},"s":"I", "c":"CONTROL", "id":23403, "ctx":"initandlisten","msg":"Build Info","attr":{"buildInfo":{"version":"5.0.9","gitVersion":"6f7dae919422cd7f4892c10ff20cd221ad0066","modules":[],"allocator":"tcmalloc","environment":{"distmod":"windows","distarch":"x86_64","target_arch":"x86_64"}}}}, {"t":{"sdate":"2022-06-03T20:32:34.274+05:30"},"s":"I", "c":"CONTROL", "id":51785, "ctx":"initandlisten","msg":"Operating System","attr":{"os":{"name":"Microsoft Windows 10","version":"10.0 (build 22000)"}}, {"t":{"sdate":"2022-06-03T20:32:34.274+05:30"},"s":"I", "c":"CONTROL", "id":21951, "ctx":"initandlisten","msg":"Options set by command line","attr":{"options":{}}}, {"t":{"sdate":"2022-06-03T20:32:34.279+05:30"},"s":"E", "c":"CONTROL", "id":20557, "ctx":"initandlisten","msg":"DBException in initAndlisten, terminating","attr":{"error":"NonExistentPath: Data directory C:/data/db/ not found. Create the missing directory or specify another path using (1) the --dbpath command line option, or (2) by adding the 'storage.dbPath' option in the configuration file."}}, {"t":{"sdate":"2022-06-03T20:32:34.279+05:30"},"s":"I", "c":"REPL", "id":4784900, "ctx":"initandlisten","msg":"Stepping down the ReplicationCoordinator for shutdown","attr":{"waitTimeMillis":15000}}, {"t":{"sdate":"2022-06-03T20:32:34.284+05:30"},"s":"I", "c":"COMMAND", "id":4784901, "ctx":"initandlisten","msg":"Shutting down the MirrorMastro"}, {"t":{"sdate":"2022-06-03T20:32:34.284+05:30"},"s":"I", "c":"SHARDING", "id":4784902, "ctx":"initandlisten","msg":"Shutting down the WaitForMajorityService"}, {"t":{"sdate":"2022-06-03T20:32:34.285+05:30"},"s":"I", "c":"NETWORK", "id":20562, "ctx":"initandlisten","msg":"Shutdown: going to close listening sockets"}, {"t":{"sdate":"2022-06-03T20:32:34.286+05:30"},"s":"I", "c":"NETWORK", "id":4784905, "ctx":"initandlisten","msg":"Shutting down the global connection pool"}, {"t":{"sdate":"2022-06-03T20:32:34.286+05:30"},"s":"I", "c":"CONTROL", "id":4784906, "ctx":"initandlisten","msg":"Shutting down the FlowControlTicKetholder"}, {"t":{"sdate":"2022-06-03T20:32:34.286+05:30"},"s":"I", "c":"CONTROL", "id":20560, "ctx":"initandlisten","msg":"Stopping further Flow Control ticket acquisitions."}, {"t":{"sdate":"2022-06-03T20:32:34.288+05:30"},"s":"I", "c":"NETWORK", "id":4784918, "ctx":"initandlisten","msg":"Shutting down the ReplicaSetMonitor"}, {"t":{"sdate":"2022-06-03T20:32:34.288+05:30"},"s":"I", "c":"SHARDING", "id":4784921, "ctx":"initandlisten","msg":"Shutting down the MigrationUtilExecutor"}, {"t":{"sdate":"2022-06-03T20:32:34.290+05:30"},"s":"I", "c":"ASIO", "id":22582, "ctx":"MigrationUtil-TaskExecutor","msg":"Killing all outstanding egress activity."}, {"t":{"sdate":"2022-06-03T20:32:34.290+05:30"},"s":"I", "c":"COMMAND", "id":4784923, "ctx":"initandlisten","msg":"Shutting down the ServiceEntryPoint"}, {"t":{"sdate":"2022-06-03T20:32:34.291+05:30"},"s":"I", "c":"CONTROL", "id":4784925, "ctx":"initandlisten","msg":"Shutting down free monitoring"}, {"t":{"sdate":"2022-06-03T20:32:34.291+05:30"},"s":"I", "c":"CONTROL", "id":4784927, "ctx":"initandlisten","msg":"Shutting down the Healthlog"}, {"t":{"sdate":"2022-06-03T20:32:34.291+05:30"},"s":"I", "c":"CONTROL", "id":4784928, "ctx":"initandlisten","msg":"Shutting down the TTL monitor"}, {"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"CONTROL", "id":4784929, "ctx":"initandlisten","msg":"Acquiring the global lock for shutdown"}, {"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"CONTROL", "id":4784931, "ctx":"initandlisten","msg":"Dropping the scope cache for shutdown"}, {"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"FTDC", "id":4784932, "ctx":"initandlisten","msg":"Shutting down full-time data capture"}, {"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"CONTROL", "id":20565, "ctx":"initandlisten","msg":"Now exiting"}, {"t":{"sdate":"2022-06-03T20:32:34.293+05:30"},"s":"I", "c":"CONTROL", "id":23138, "ctx":"initandlisten","msg":"Shutting down","attr":{"exitCode":100}}

C:\Program Files\MongoDB\Server\5.0\bin>

C:\Program Files\MongoDB\Server\5.0\bin>
```

```

Command Prompt - mongo

{"t":{"sdate":"2022-06-03T20:32:34.285+05:30"},"s":"I", "c":"NETWORK", "id":20562, "ctx":"initandlisten","msg":"Shutdown: going to close listening sockets"}
{"t":{"sdate":"2022-06-03T20:32:34.286+05:30"},"s":"I", "c":"NETWORK", "id":4784905, "ctx":"initandlisten","msg":"Shutting down the global connection pool"}
{"t":{"sdate":"2022-06-03T20:32:34.286+05:30"},"s":"I", "c":"CONTROL", "id":4784906, "ctx":"initandlisten","msg":"Shutting down the FlowControlTicketHolder"}
{"t":{"sdate":"2022-06-03T20:32:34.286+05:30"},"s":"I", "c":"-", "id":20520, "ctx":"initandlisten","msg":"Stopping further Flow Control ticket acquisitions."}
{"t":{"sdate":"2022-06-03T20:32:34.288+05:30"},"s":"I", "c":"NETWORK", "id":4784918, "ctx":"initandlisten","msg":"Shutting down the ReplicaSetMonitor"}
{"t":{"sdate":"2022-06-03T20:32:34.288+05:30"},"s":"I", "c":"SHARDING", "id":4784921, "ctx":"initandlisten","msg":"Shutting down the MigrationUtilExecutor"}
{"t":{"sdate":"2022-06-03T20:32:34.290+05:30"},"s":"I", "c":"ASIO", "id":22582, "ctx":"MigrationUtil-TaskExecutor","msg":"Killing all outstanding egress activity."}
{"t":{"sdate":"2022-06-03T20:32:34.290+05:30"},"s":"I", "c":"COMMAND", "id":4784922, "ctx":"initandlisten","msg":"Shutting down the ServiceEntryPoint"}
{"t":{"sdate":"2022-06-03T20:32:34.291+05:30"},"s":"I", "c":"CONTROL", "id":4784925, "ctx":"initandlisten","msg":"Shutting down free monitoring"}
{"t":{"sdate":"2022-06-03T20:32:34.291+05:30"},"s":"I", "c":"CONTROL", "id":4784927, "ctx":"initandlisten","msg":"Shutting down the Healthlog"}
{"t":{"sdate":"2022-06-03T20:32:34.291+05:30"},"s":"I", "c":"CONTROL", "id":4784928, "ctx":"initandlisten","msg":"Shutting down the TTL monitor"}
{"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"CONTROL", "id":4784929, "ctx":"initandlisten","msg":"Acquiring the global lock for shutdown"}
{"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"-", "id":4784931, "ctx":"initandlisten","msg":"Dropping the scope cache for shutdown"}
{"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"FTDC", "id":4784926, "ctx":"initandlisten","msg":"Shutting down full-time data capture"}
{"t":{"sdate":"2022-06-03T20:32:34.292+05:30"},"s":"I", "c":"CONTROL", "id":20565, "ctx":"initandlisten","msg":"Now exiting"}
{"t":{"sdate":"2022-06-03T20:32:34.293+05:30"},"s":"I", "c":"CONTROL", "id":23138, "ctx":"initandlisten","msg":"Shutting down","attr":{"exitCode":100}}

C:\Program Files\MongoDB\Server\5.0\bin>
C:\Program Files\MongoDB\Server\5.0\bin>mongo
MongoDB shell version v5.0.9
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("970f996e-3afc-4545-a999-bfea8252a3e") }
MongoDB server version: 5.0.9
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in
an upcoming release.
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
The server generated these startup warnings when booting:
  2022-06-03T20:14:15.302+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()
  ...
  *

```