

Module 4: Integration with MongoDB And Email Servers

Demo Document 1

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Creating Installation Of MongoDB On Windows System

DEMO Steps:





Step1: Download MongoDB in your system, using the link mentioned below.

<https://www.mongodb.com/download-center/community>

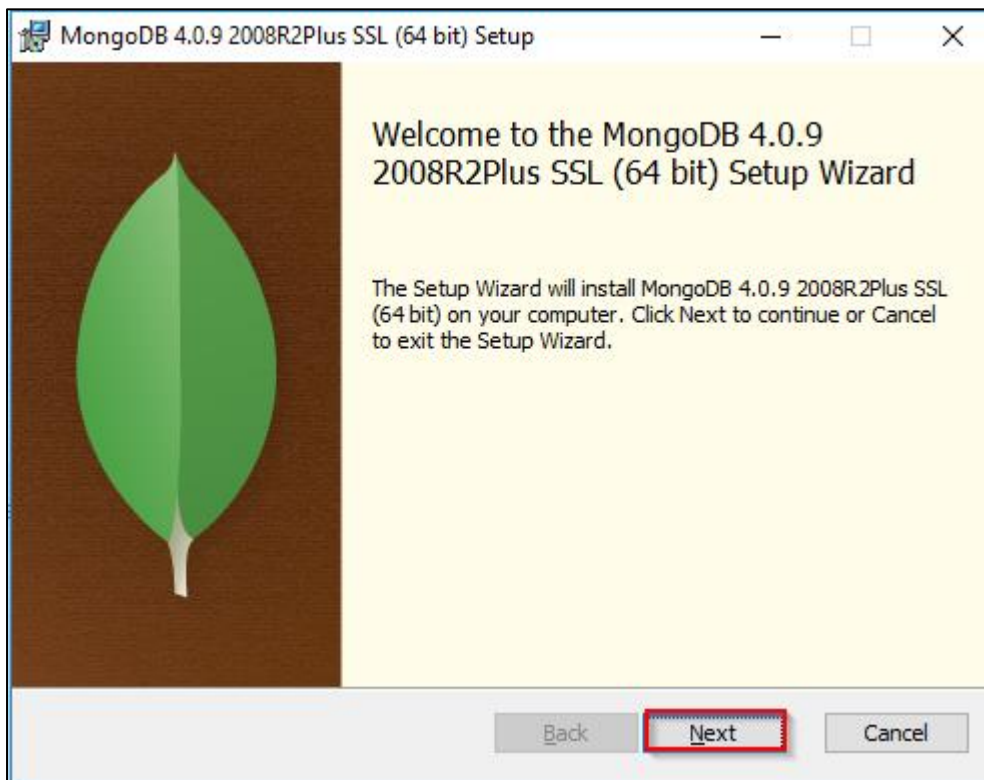
Follow the steps- Products>>Server>>community server>> Download

The screenshot shows the MongoDB download center interface. At the top, the 'Products' tab is selected. Below it, the 'Server' tab is selected. The main heading is 'MongoDB Community Server' with the tagline 'FEATURE RICH. DEVELOPER READY.'. Below this, there are three dropdown menus: 'Version' set to '4.0.9 (current release)', 'OS' set to 'Windows 64-bit x64', and 'Package' set to 'MSI'. A green 'Download' button is visible. At the bottom, the download URL is displayed: https://fastdl.mongodb.org/win32/mongodb-win32-x86_64-2008plus-ssl-4.0.9-signed.msi.

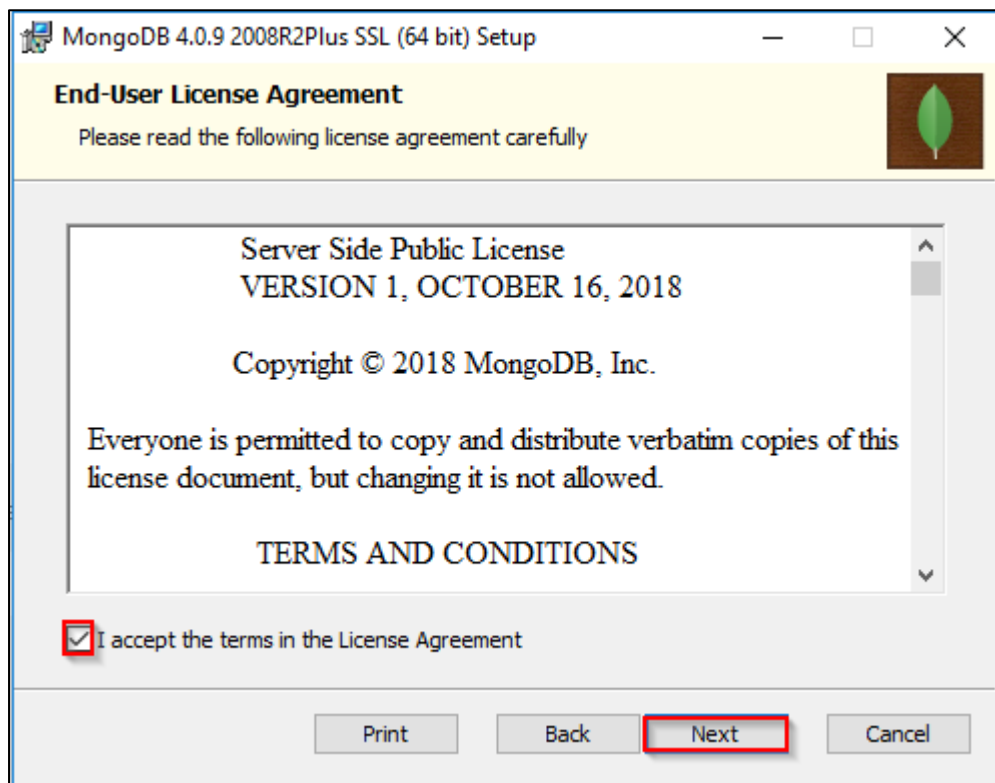
Step2: Double click on the setup file to start the installation

Name	Date modified	Type
 index	20-09-2018 19:37	HTML File
 index.html	24-09-2018 03:01	Text Document
 mongodb-win32-x86_64-2008plus-ssl-4.0...	10-05-2019 10:49	Shortcut
 notes	30-10-2018 19:25	JavaScript File

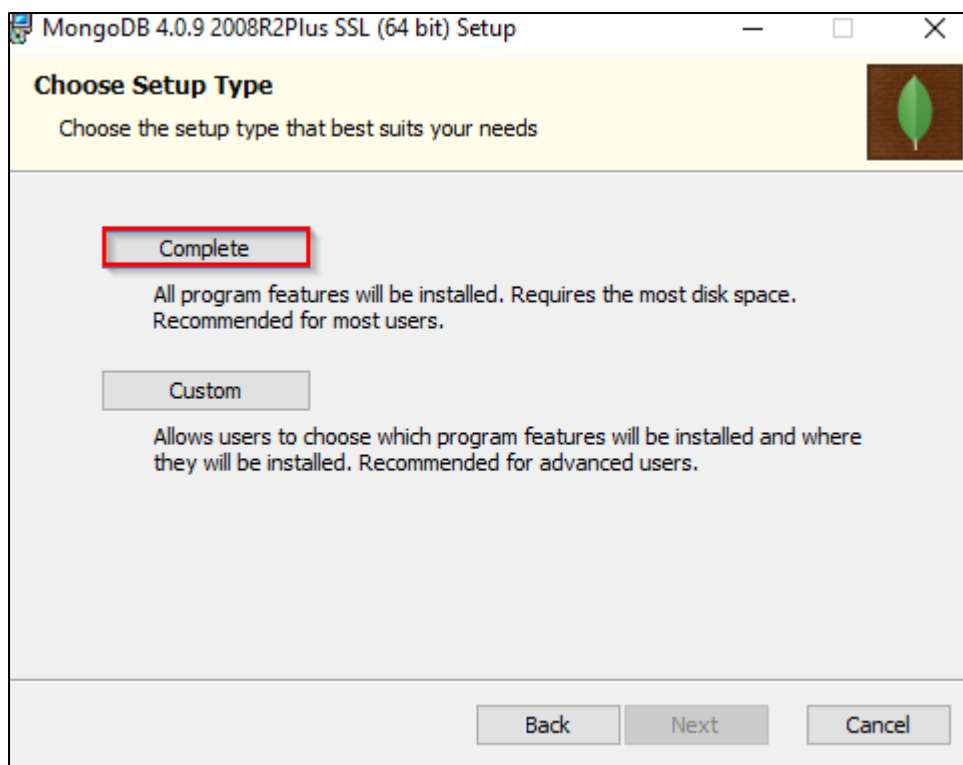
Step-3: Start the installation by clicking “Next”



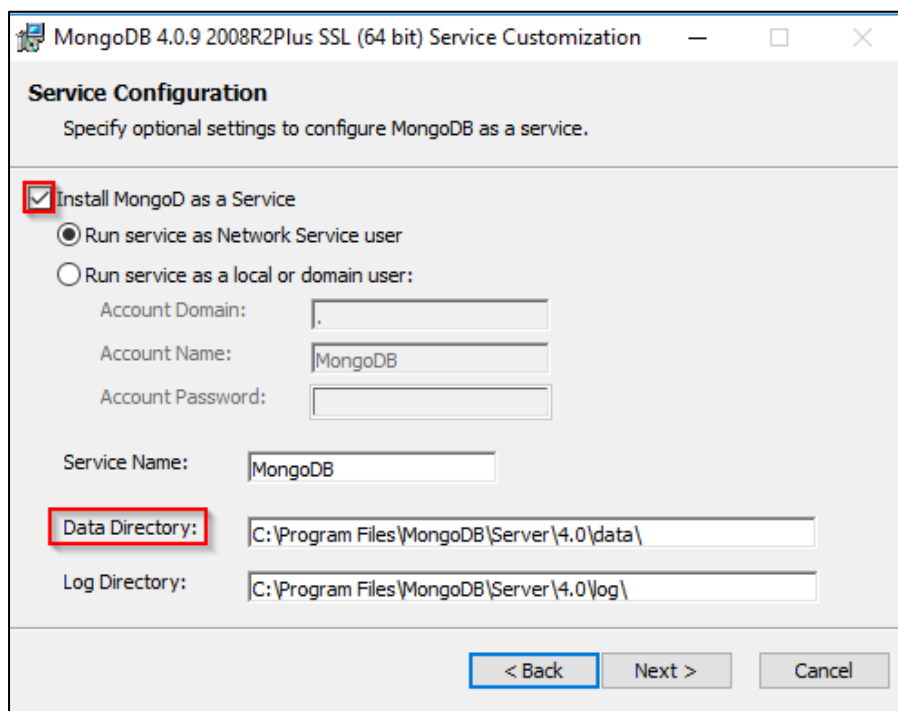
Step-4: Accept the terms of license Agreement and click on “Next”



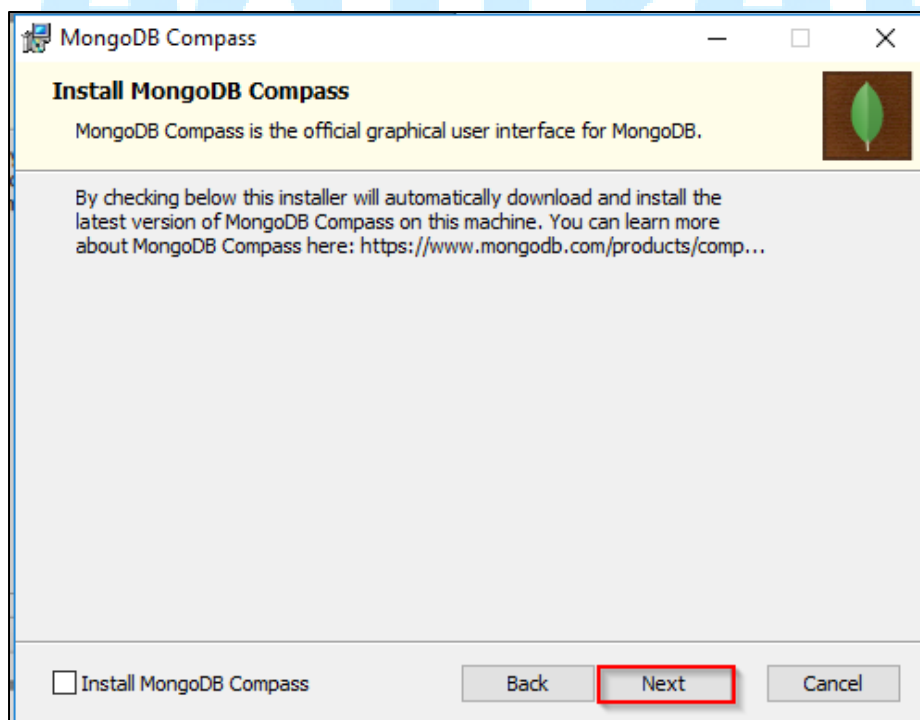
Step-5: Select “Complete” option



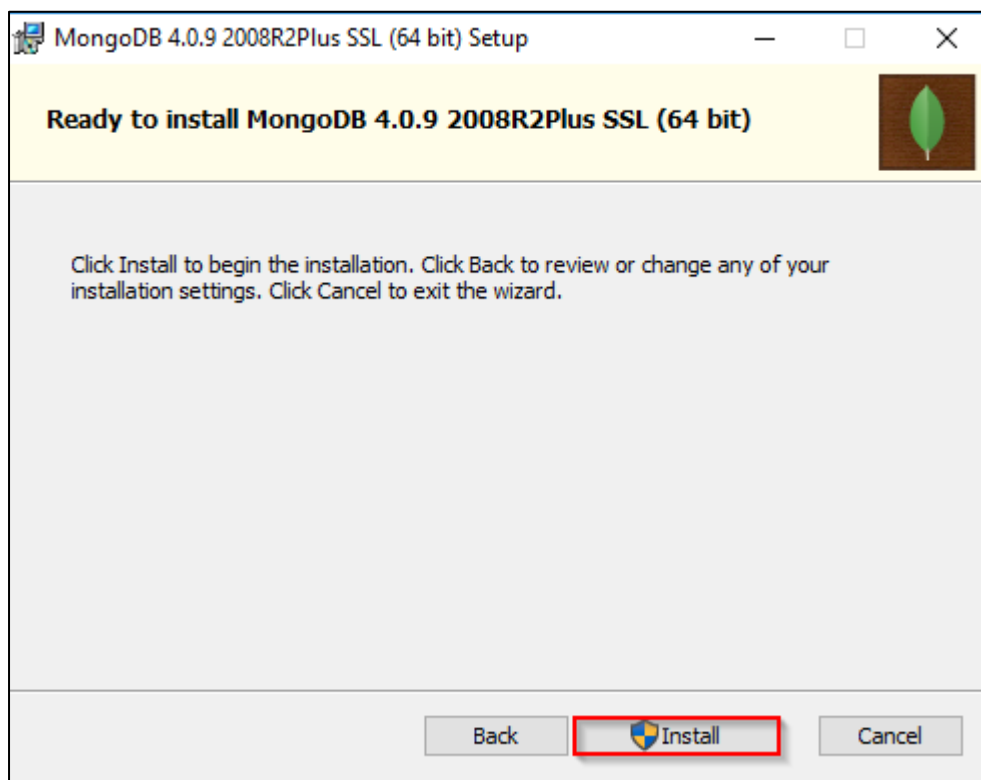
Step-6: Click on “Install MongoDB as a Service” option and Run service as a Network Service user



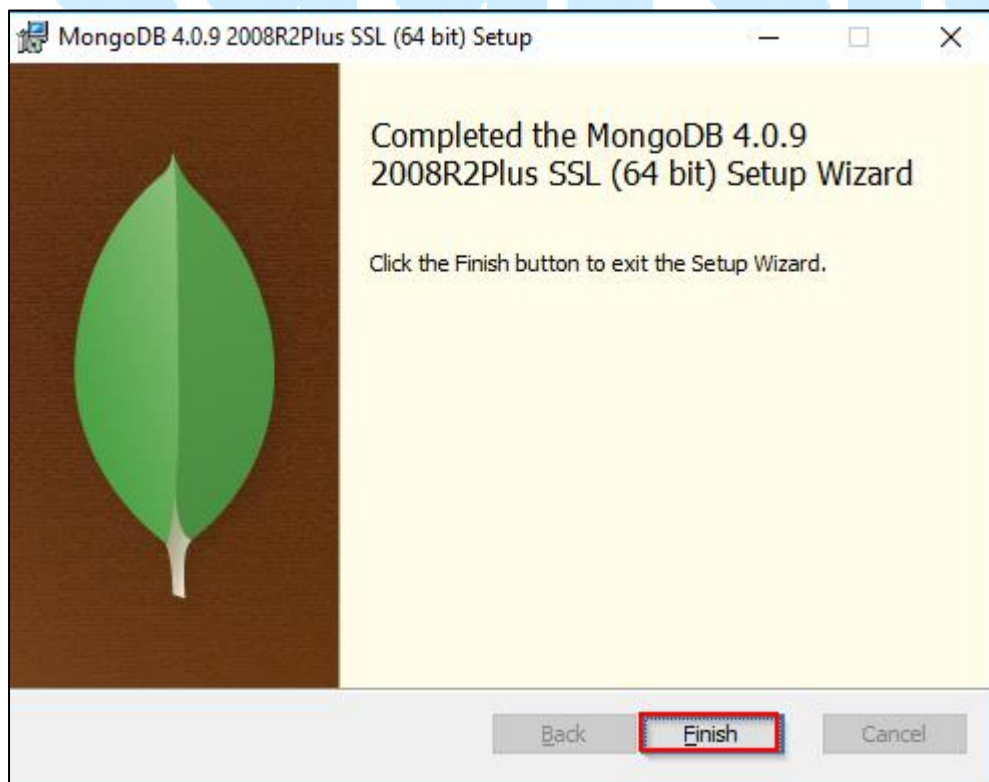
Step-7: **Uncheck** the Install MongoDB Compass and click on “Next”



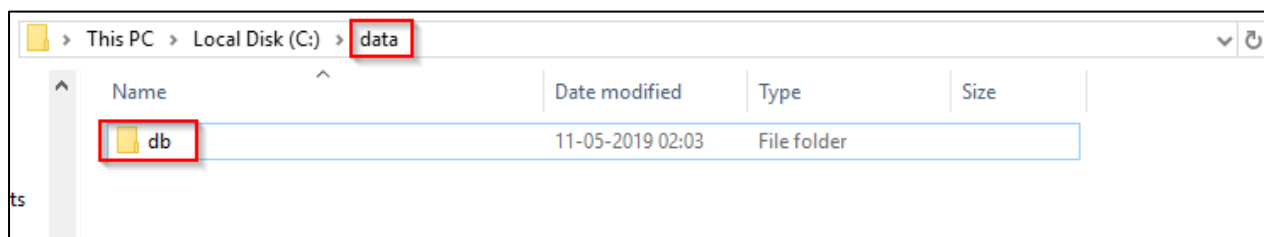
Step-8: Finally click on “Install”



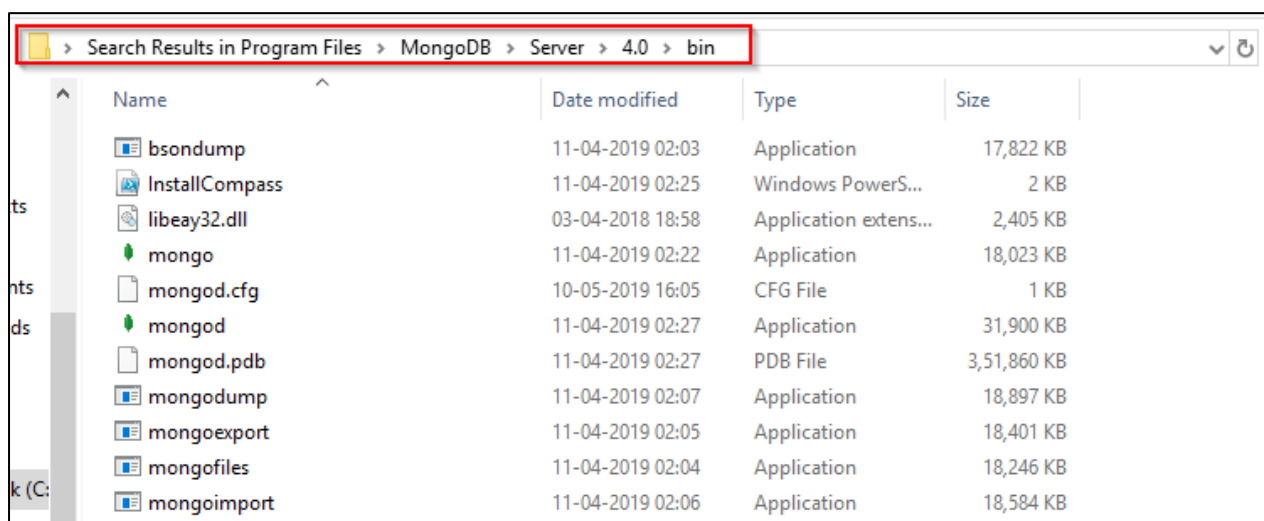
Step-9: Allow the MongoDB to do changes and click on “Finish”



Step-10: Create a new folder in your **C-drive**, name it **data** and inside it create a new folder called **db** to store the data of database



Step-11: Copy the path of your MongoDB (installation) Location and use it to navigate command prompt



```
Microsoft Windows [Version 10.0.17134.706]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\>cd C:\Program Files\MongoDB\Server\4.0\bin
C:\Program Files\MongoDB\Server\4.0\bin>mongod
```

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Step-12: Open two command prompts and Navigate the path to /bin folder in both the command prompts. Type **mongod** in one terminal and **mongo** in other terminal as shown below

Here in first terminal Mongod will **start the mongoServer** and in second terminal Mongo will open Terminal and **connect with server**

```
C:\Program Files\MongoDB\Server\4.0\bin>mongod
2019-05-10T13:29:33.200-0700 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2019-05-10T13:29:33.326-0700 I CONTROL [initandlisten] MongoDB starting : pid=9060 port=27017 dbpath=C:\data\db\ 64-bit host=DESKTOP-HR7ER1E
2019-05-10T13:29:33.326-0700 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2019-05-10T13:29:33.328-0700 I CONTROL [initandlisten] db version v4.0.9
2019-05-10T13:29:33.328-0700 I CONTROL [initandlisten] git version: fc525e2d9b0e4bceff5c2201457e564362909765
2019-05-10T13:29:33.329-0700 I CONTROL [initandlisten] allocator: tcmalloc
2019-05-10T13:29:33.329-0700 I CONTROL [initandlisten] modules: none
2019-05-10T13:29:33.330-0700 I CONTROL [initandlisten] build environment:
2019-05-10T13:29:33.330-0700 I CONTROL [initandlisten]   distmod: 2008plus-ssl
2019-05-10T13:29:33.330-0700 I CONTROL [initandlisten]   distarch: x86_64
2019-05-10T13:29:33.331-0700 I CONTROL [initandlisten]   target_arch: x86_64
2019-05-10T13:29:33.331-0700 I CONTROL [initandlisten] options: {}
2019-05-10T13:29:33.364-0700 W STORAGE [initandlisten] Detected unclean shutdown - C:\data\db\mongod.lock is not empty.
2019-05-10T13:29:33.376-0700 I STORAGE [initandlisten] Detected data files in C:\data\db\ created by the 'wiredTiger' storage engine, so setting the active storage engine to 'wiredTiger'
2019-05-10T13:29:33.377-0700 W STORAGE [initandlisten] Recovering data from the last clean checkpoint.
2019-05-10T13:29:33.378-0700 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=3526M,session_max=20000,eviction=(threads_min=4,threads_max=4),config_base=false,statistics=(fast),log=(enabled=true,archive=true,path=journal,compressor=snappy),file_manager=(close_idle_time=100000),statistics_log=(wait=0),verbose=(recovery_progress)
2019-05-10T13:29:33.821-0700 I STORAGE [initandlisten] WiredTiger message [1557520173:821801][9060:140729413094480], txn-recover: Main recovery loop: starting at 7/35840 to 8/256
2019-05-10T13:29:33.837-0700 I STORAGE [initandlisten] WiredTiger message [1557520173:837334][9060:140729413094480], txn-recover: Recovering log 7 through 8
2019-05-10T13:29:33.986-0700 I STORAGE [initandlisten] WiredTiger message [1557520173:985361][9060:140729413094480], txn-recover: Recovering log 8 through 8
2019-05-10T13:29:34.082-0700 I STORAGE [initandlisten] WiredTiger message [1557520174:81072][9060:140729413094480], txn-recover: Set global recovery timestamp: 0
2019-05-10T13:29:34.264-0700 I RECOVERY [initandlisten] WiredTiger recoveryTimestamp. Ts: Timestamp(0, 0)
2019-05-10T13:29:34.540-0700 I CONTROL [initandlisten]
2019-05-10T13:29:34.540-0700 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-05-10T13:29:34.541-0700 I CONTROL [initandlisten] **           Read and write access to data and configuration is unrestricted.
2019-05-10T13:29:34.541-0700 I CONTROL [initandlisten]
2019-05-10T13:29:34.542-0700 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2019-05-10T13:29:34.542-0700 I CONTROL [initandlisten] **           Remote systems will be unable to connect to this server.
2019-05-10T13:29:34.542-0700 I CONTROL [initandlisten] **           Start the server with --bind_ip <address> to specify which IP
2019-05-10T13:29:34.543-0700 I CONTROL [initandlisten] **           addresses it should serve responses from, or with --bind_ip_all to
2019-05-10T13:29:34.543-0700 I CONTROL [initandlisten] **           bind to all interfaces. If this behavior is desired, start the
2019-05-10T13:29:34.544-0700 I CONTROL [initandlisten] **           server with --bind_ip 127.0.0.1 to disable this warning.
2019-05-10T13:29:34.544-0700 I CONTROL [initandlisten]
2019-05-11T01:59:35.287+0530 I FTDC [initandlisten] Initializing full-time diagnostic data capture with directory 'C:\data\db\diagnostic.data'
2019-05-11T01:59:35.381+0530 I NETWORK [initandlisten] waiting for connections on port 27017
2019-05-11T01:59:36.107+0530 I FTDC [ftdc] Unclean full-time diagnostic data capture shutdown detected, found interim file, some metrics may have been lost. OK
```

Where **27017** is the default port for running MongoDB server

```
C:\Program Files\MongoDB\Server\4.0\bin>mongo
MongoDB shell version v4.0.9
connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("ec7e64b9-bdc6-4e0c-a82e-4880a074df9a") }
MongoDB server version: 4.0.9
Server has startup warnings:
2019-05-11T13:45:18.260+0530 I CONTROL [initandlisten]
2019-05-11T13:45:18.260+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-05-11T13:45:18.260+0530 I CONTROL [initandlisten] **           Read and write access to data and configuration is unrestricted.
2019-05-11T13:45:18.260+0530 I CONTROL [initandlisten]
---
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()
---
```

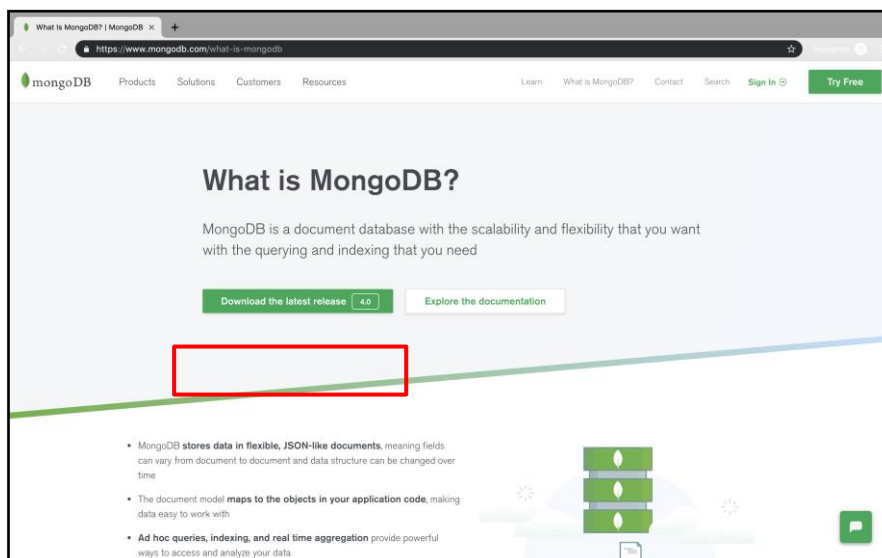
(Use Mongo terminal to perform Queries Associated with database)

Step 13: To check all databases use “show dbs” it will show all databases

```
avi — mongo — 78x22
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten] ** WARNING: soft rlimi
ts too low. Number of files is 256, should be at least 1000
> show dbs
MEANStackDB 0.000GB
admin        0.000GB
apr_dashboard 0.000GB
apr_node_oo  0.000GB
aprlogin     0.000GB
classdatabase 0.000GB
classpractice 0.000GB
config       0.000GB
curd         0.000GB
dashboard    0.000GB
graphql      0.000GB
local        0.000GB
marchNode    0.000GB
march_dashboard 0.000GB
marchang     0.000GB
ts_crud      0.000GB
user_crud    0.000GB
```

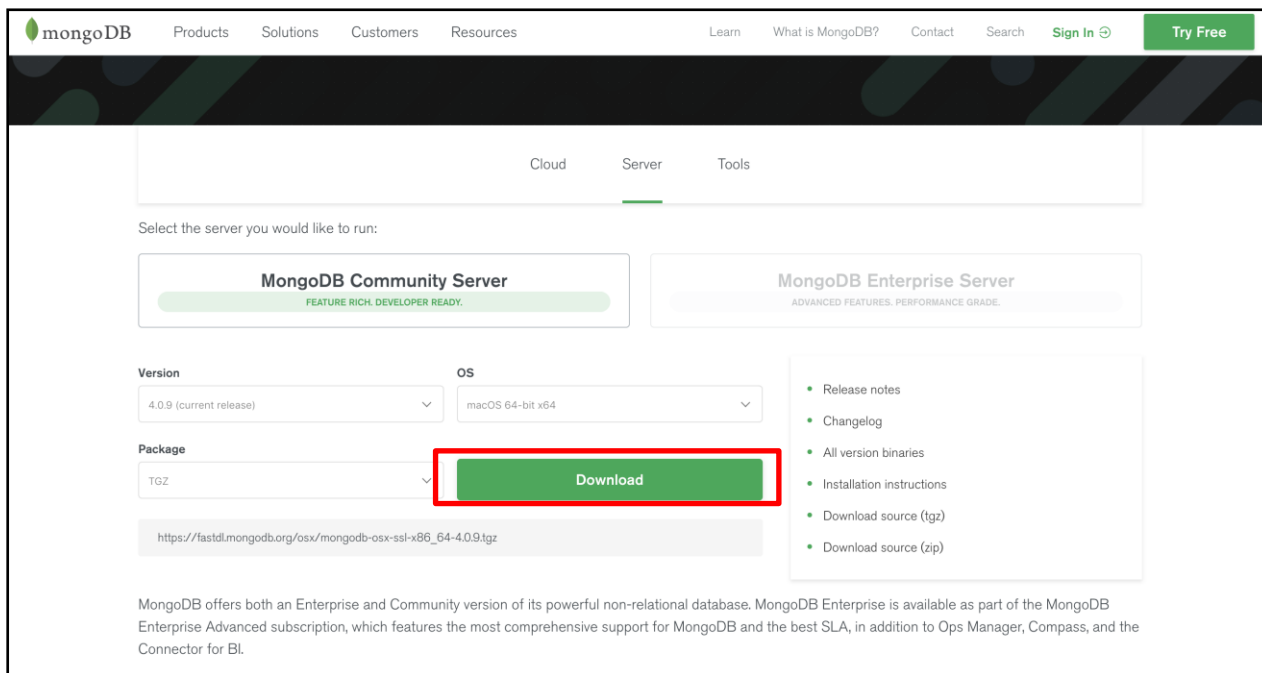
Installation Of MongoDB On Mac System:

Step1: Go to MongoDB Website, select product. Click on MongoDB Server and select download latest release. (for mac: <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-os-x/>)



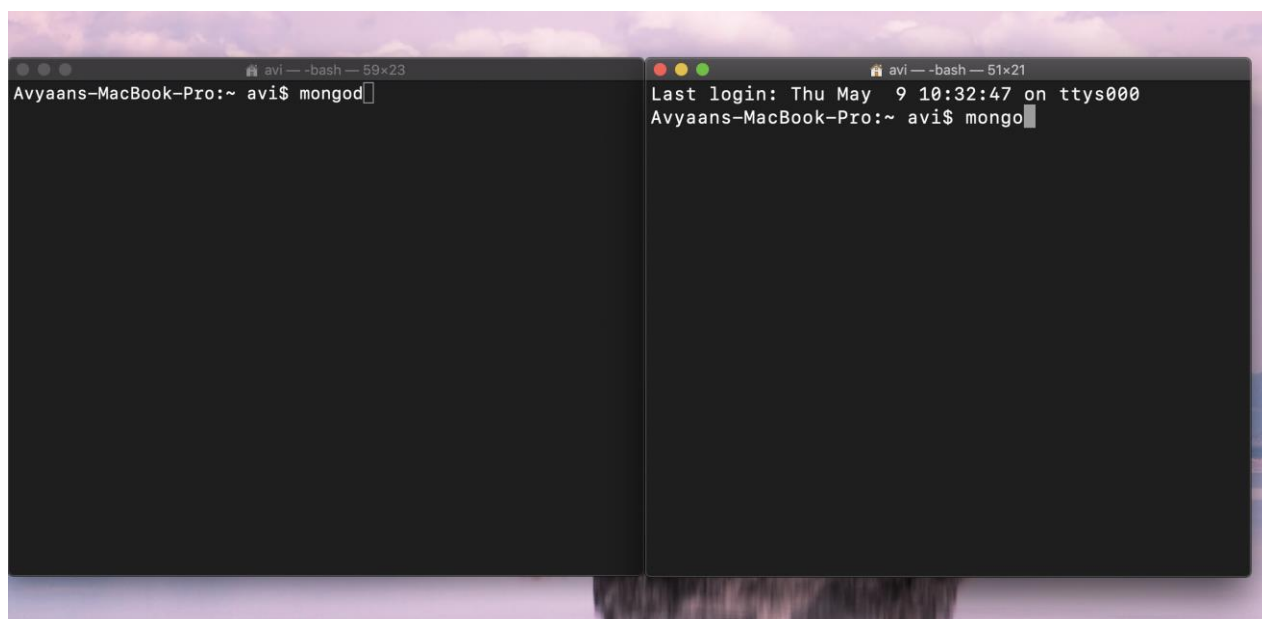
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Step2: Select OS according to your system and click download



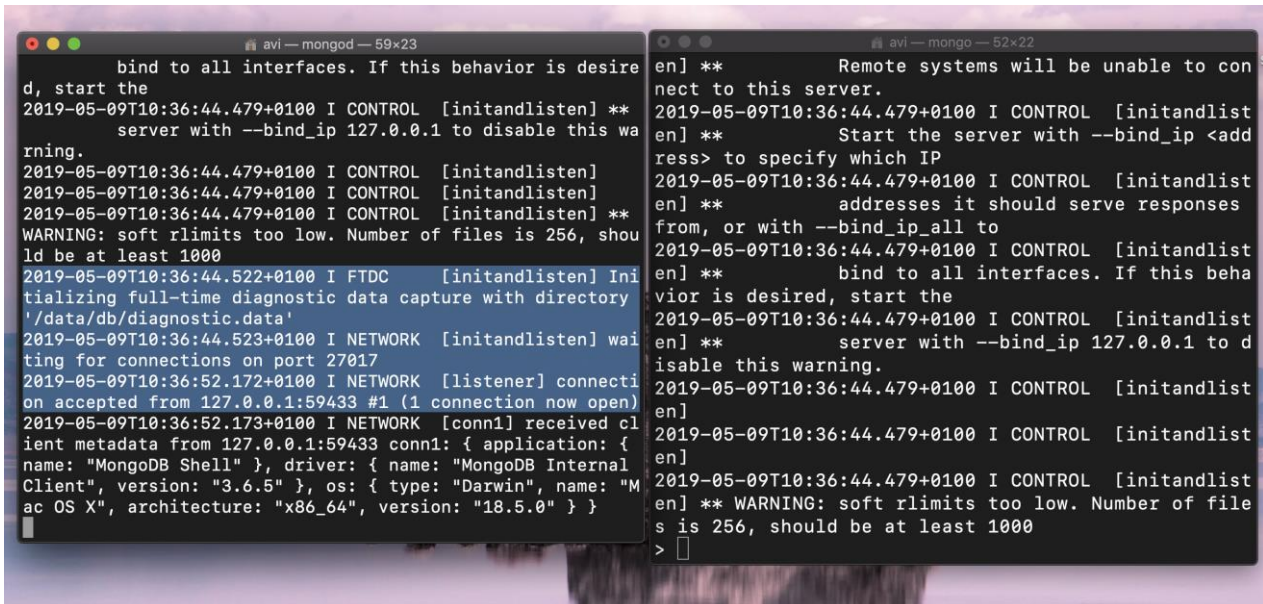
The screenshot shows the MongoDB download page. At the top, there is a navigation bar with links for Products, Solutions, Customers, Resources, Learn, What is MongoDB?, Contact, Search, Sign In, and a Try Free button. Below the navigation bar, there are tabs for Cloud, Server, and Tools. The Server tab is selected. The main content area has two options: MongoDB Community Server (Feature rich, Developer ready) and MongoDB Enterprise Server (Advanced features, Performance grade). Below these options, there are dropdown menus for Version (4.0.9 (current release)) and OS (macOS 64-bit x64). There is also a Package dropdown menu (TGZ). A green Download button is highlighted with a red rectangle. Below the Download button, there is a URL: https://fastdl.mongodb.org/osx/mongodb-osx-ssl-x86_64-4.0.9.tgz. To the right of the Download button, there is a list of links: Release notes, Changelog, All version binaries, Installation instructions, Download source (tgz), and Download source (zip). At the bottom, there is a paragraph of text: MongoDB offers both an Enterprise and Community version of its powerful non-relational database. MongoDB Enterprise is available as part of the MongoDB Enterprise Advanced subscription, which features the most comprehensive support for MongoDB and the best SLA, in addition to Ops Manager, Compass, and the Connector for BI.

Step3: Once done with installation open command prompt. Open two Terminals and type mongod in first one and in another Terminal type mongo. Mongod will start the mongo server and Terminal with Mongo will connect with server.



Step4: Mongod server will start on port number 27017 and mongo will connect with this server

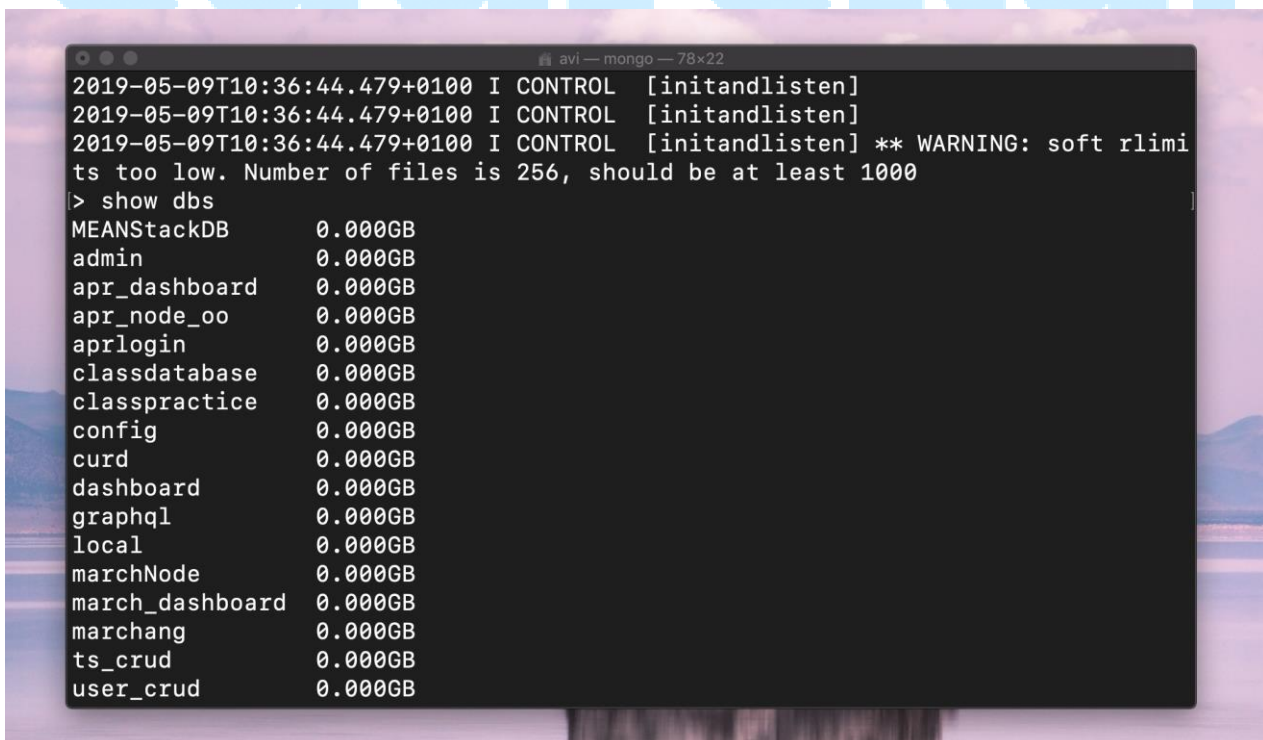
All Command will work on mongo shell



```
avi — mongod — 59x23
bind to all interfaces. If this behavior is desired, start the
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten] **
server with --bind_ip 127.0.0.1 to disable this warning.
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten] **
WARNING: soft rlimits too low. Number of files is 256, should
be at least 1000
2019-05-09T10:36:44.522+0100 I FTDC [initandlisten] Initializing
full-time diagnostic data capture with directory
'/data/db/diagnostic.data'
2019-05-09T10:36:44.523+0100 I NETWORK [initandlisten] waiting
for connections on port 27017
2019-05-09T10:36:52.172+0100 I NETWORK [listener] connection
accepted from 127.0.0.1:59433 #1 (1 connection now open)
2019-05-09T10:36:52.173+0100 I NETWORK [conn1] received client
metadata from 127.0.0.1:59433 conn1: { application: {
name: "MongoDB Shell" }, driver: { name: "MongoDB Internal
Client", version: "3.6.5" }, os: { type: "Darwin", name: "Mac
OS X", architecture: "x86_64", version: "18.5.0" } }

avi — mongo — 52x22
en] ** Remote systems will be unable to connect to this server.
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
en] ** Start the server with --bind_ip <address> to specify
which IP
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
en] ** addresses it should serve responses from, or with
--bind_ip_all to
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
en] ** bind to all interfaces. If this behavior is desired,
start the
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
en] ** server with --bind_ip 127.0.0.1 to disable this
warning.
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
en]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
en] ** WARNING: soft rlimits too low. Number of files is
256, should be at least 1000
>
```

Step 5: To check all databases use “show dbs” it will show all databases.



```
avi — mongo — 78x22
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten]
2019-05-09T10:36:44.479+0100 I CONTROL [initandlisten] ** WARNING: soft rlimits
too low. Number of files is 256, should be at least 1000
> show dbs
MEANStackDB      0.000GB
admin            0.000GB
apr_dashboard    0.000GB
apr_node_oo      0.000GB
aprlogin         0.000GB
classdatabase    0.000GB
classpractice    0.000GB
config           0.000GB
curd             0.000GB
dashboard        0.000GB
graphql          0.000GB
local            0.000GB
marchNode        0.000GB
march_dashboard  0.000GB
marchang         0.000GB
ts_crud          0.000GB
user_crud        0.000GB
```

Conclusion:

We have successfully installed MongoDB in our system

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