

## INSTALLING MONGODB:

Just go to <http://www.mongodb.org/downloads> and select your operating system out of [Windows](#), [Linux](#), [Mac OS X](#) and Solaris. A detailed explanation about the installation of MongoDB is given on their site.

For Windows, a few options for the 64-bit operating systems drops down. When you're running on Windows 7, 8 or newer versions, select **Windows 64-bit 2008 R2+**. When you're using Windows XP or Vista then select **Windows 64-bit 2008 R2+ legacy**.

### Terminologies:

A MongoDB **Database** can be called as the container for all the collections.

- **Collection** is a bunch of MongoDB documents. It is similar to tables in RDBMS.
- **Document** is made of fields. It is similar to a tuple in RDBMS, but it has dynamic schema here. Documents of the same collection need not have the same set of fields

### MongoDB is a popular choice for various applications :

- **Web applications:** Storing user data, content, and preferences.
- **Mobile apps:** Managing user data and application state on the backend.
- **Real-time analytics:** Storing and analyzing data streams from sensors or applications.
- **Content management systems:** Storing and managing content in a flexible way.

## How to Install MongoDB on Windows?

### Requirements to Install MongoDB on Windows:

- MongoDB versions 4.4 and later only support 64-bit versions of Windows.
- If you're using an older version (e.g., MongoDB 7.0), supported Windows versions include:
  - ✓ Windows Server 2022 (64-bit)
  - ✓ Windows Server 2019 (64-bit)
  - ✓ Windows 11 (64-bit)

## Steps to Install MongoDB on windows using MSI:

To install MongoDB on Windows, first, download the MongoDB server and then install the MongoDB shell.

### MongoDB Compass:

#### 1. Download MongoDB Compass:

- Open your web browser and go to the official MongoDB website or directly to the MongoDB Compass download page: [MongoDB Compass Download](#).
- On the download page, you'll see options for different operating systems. Choose the appropriate version for your system (Windows, macOS, or Linux) by clicking on the corresponding download button.
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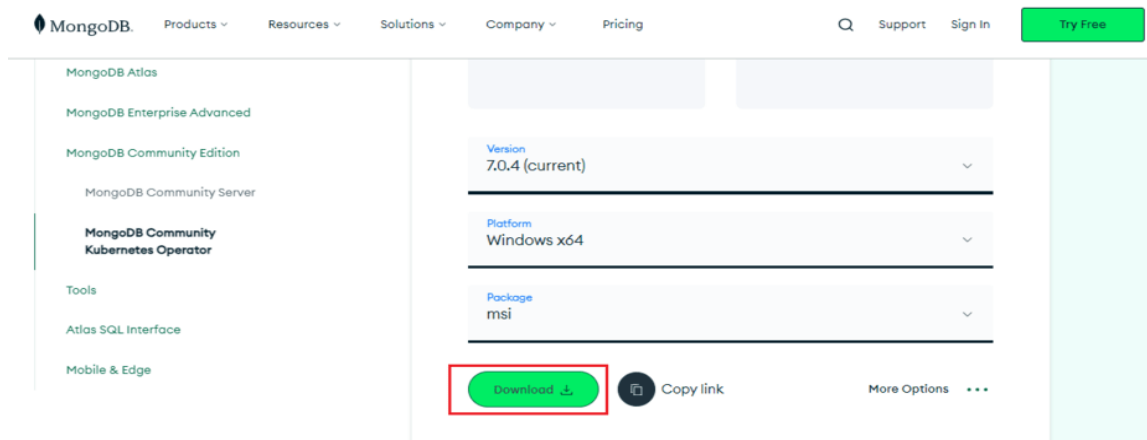
#### 2. Install MongoDB Compass:

- Once the download is complete, locate the downloaded file (usually in your Downloads folder) and double-click to start the installation process.
- Follow the on-screen instructions provided by the installation wizard. Typically, you'll need to agree to the terms of service, choose the installation directory, and optionally create shortcuts.
- Click "Install" to begin the installation process. This may take a few moments to complete.
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#### 3. Launch MongoDB Compass:

- After the installation is finished, you can launch MongoDB Compass from your desktop or using the application menu on your operating system.
- Double-click on the MongoDB Compass icon to open the application.

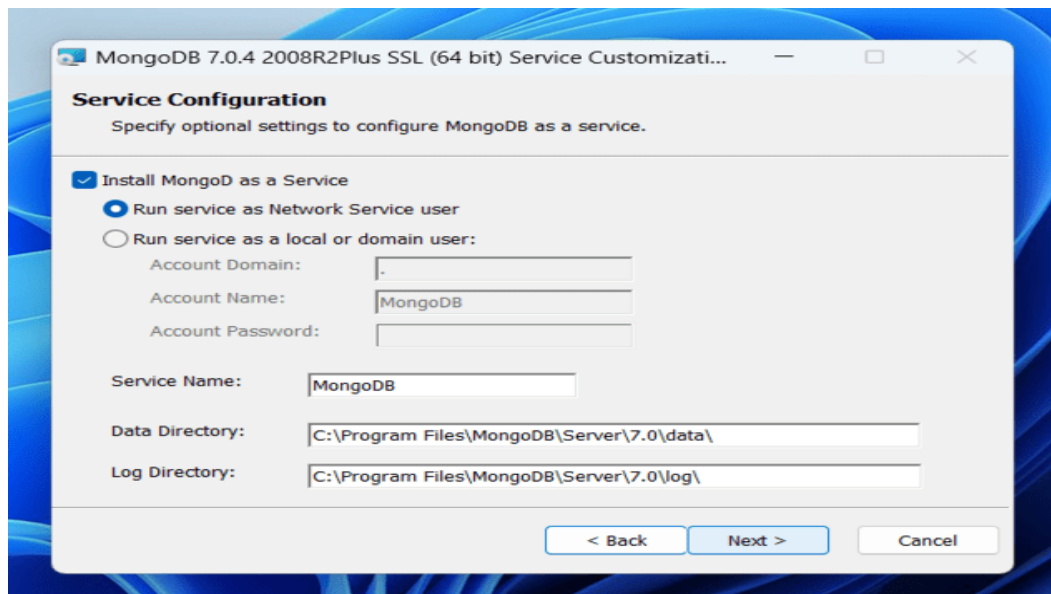
**Step 1:** Go to the MongoDB Download Center to download the MongoDB Community Server.



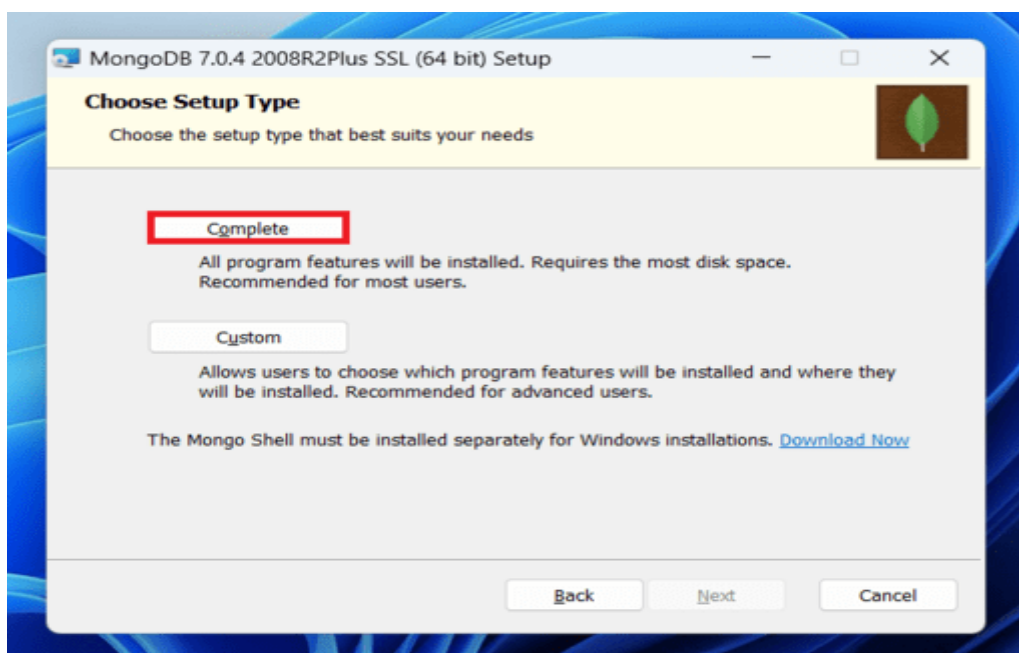
**Step 2:** When the download is complete open the msi file and click the next button in the startup screen:



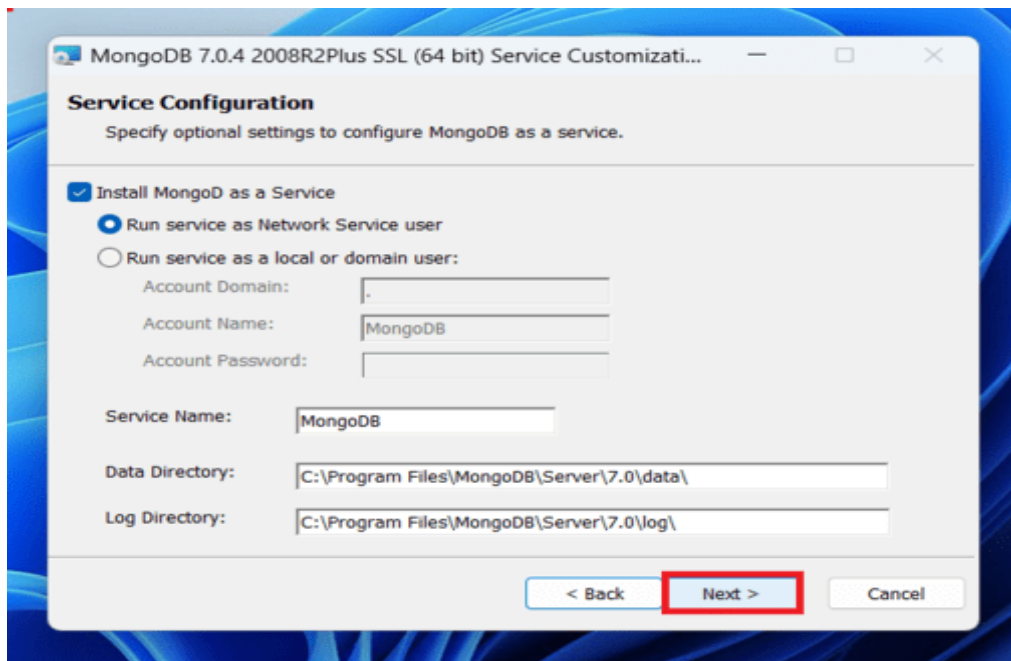
**Step 3:** Now accept the End-User License Agreement and click the next button:



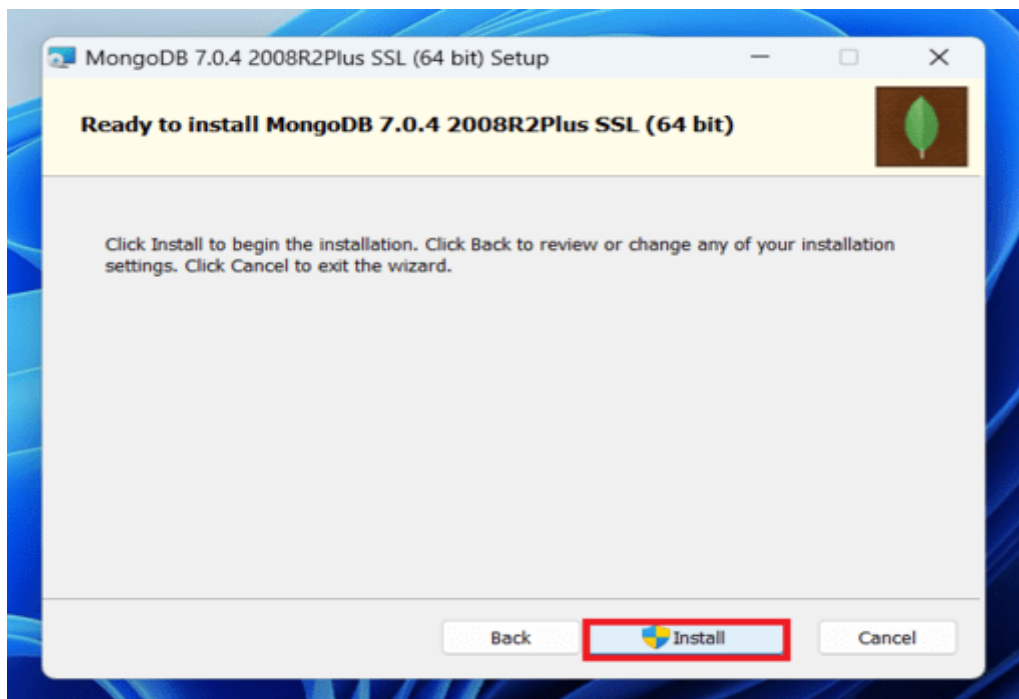
**Step 4:** Now select the complete option to install all the program features. Here, if you can want to install only selected program features and want to select the location of the installation, then use the Custom option:



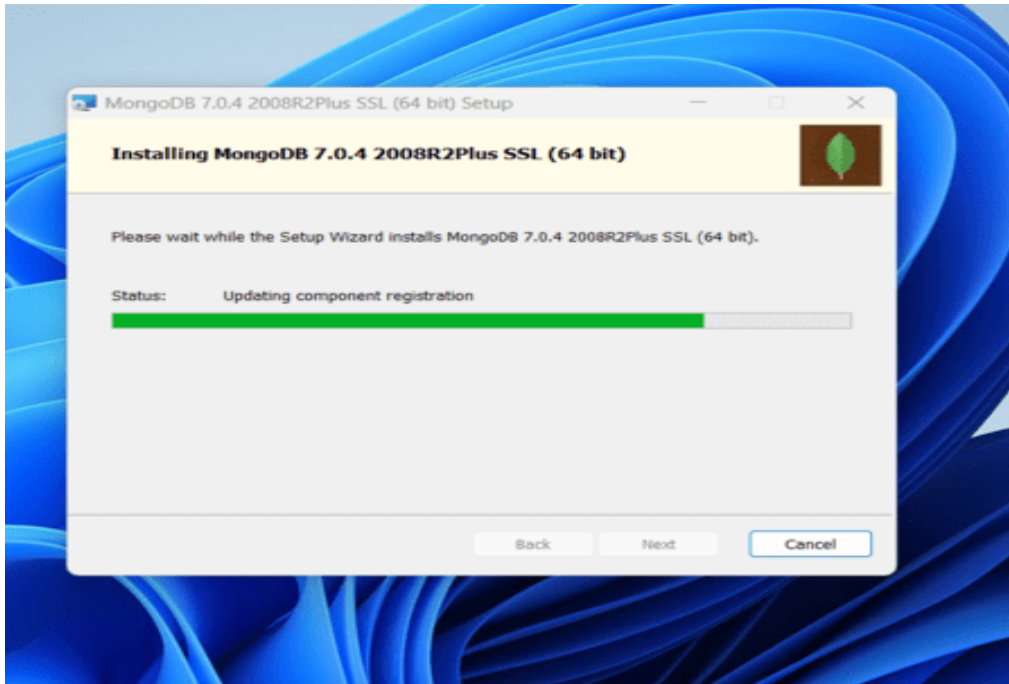
**Step 5:** Select “Run service as Network Service user” and copy the path of the data directory. Click Next:



**Step 6:** Click the Install button to start the MongoDB installation process:



**Step 7:** After clicking on the install button installation of MongoDB begins:



**Step 8:** Now click the Finish button to complete the MongoDB installation process:

## MongoDB Shell Download

MongoDB Shell is the quickest way to connect to (and work with) MongoDB. Easily query data, configure settings, and execute other actions with this modern, extensible command-line interface — replete with syntax highlighting, intelligent autocomplete, contextual help, and error messages.

Note: MongoDB Shell is an open source (Apache 2.0), standalone product developed separately from the MongoDB Server.

### MongoDB Shell:

#### 1. Download MongoDB Community Server:

- MongoDB Shell comes bundled with MongoDB Community Server. Therefore, you need to download and install MongoDB Community Server first.
- Open your web browser and navigate to the official MongoDB website: [MongoDB Community Download](#).
- Choose your operating system (Windows, macOS, or Linux) and click on the "Download" button for the appropriate version of MongoDB Community Server.

## 2. Install MongoDB Community Server:

- Once the download is complete, locate the downloaded installer file and double-click to start the installation process.
- Follow the installation wizard instructions. You may need to provide administrative privileges on your system.
- During the installation, you can choose the setup type (Complete, Custom, or Typical) and select the installation directory.
- After configuring the options, click "Install" to begin the installation process. Wait for the installation to complete.
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## 3. Set Up MongoDB Environment (Optional):

- After installing MongoDB Community Server, you may optionally need to set up environment variables.
- If you plan to use MongoDB Shell from the command line, ensure that the MongoDB binaries directory is added to your system's PATH variable. This allows you to run MongoDB Shell commands from any directory in your terminal or command prompt.
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## 4. Launch MongoDB Shell:

- MongoDB Shell is installed as part of MongoDB Community Server, and you can launch it from your terminal or command prompt.
- Open a terminal or command prompt on your system.
- Type `mongo` and press Enter. This command starts the MongoDB Shell.

## Steps to Download MongoDB Shell

**Step 1:** [Open the MongoDB Shell download page](#) and [Open the MongoDB Download Center](#).



The screenshot shows the MongoDB Download Center interface. It features three dropdown menus for selection:

- Version:** 2.2.6
- Platform:** Windows x64 (10+)
- Package:** zip

Below the dropdowns, there are three buttons:

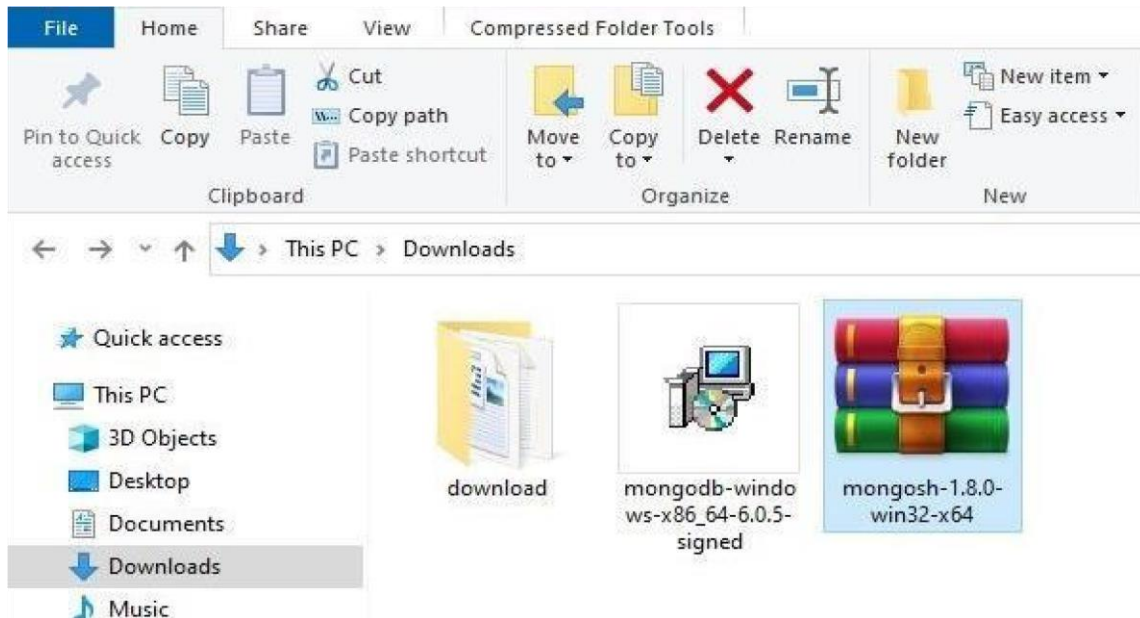
- Download** (green button with a download icon)
- Copy link** (dark grey button with a copy icon)
- More Options** (text with three dots)

☐ Select any version, Windows, and package according to your requirement. For Windows, we need to choose:

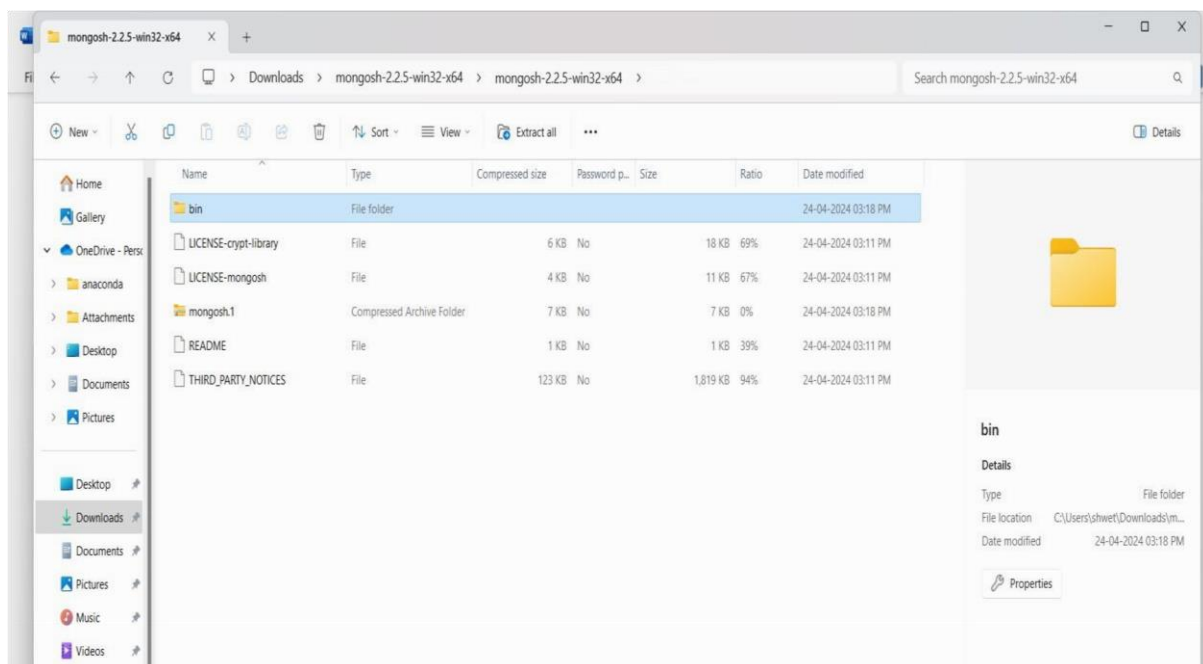
- ✓ Version: 2.2.6
- ✓ OS: Windows x64
- ✓ Package: zip

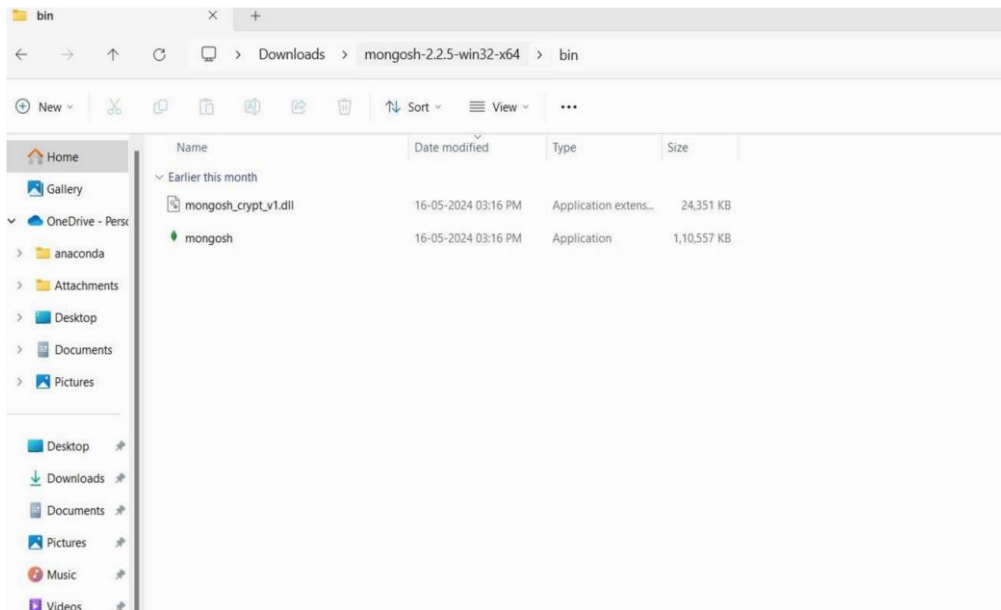


**Step 2:** Locate the downloaded .zip file in your Downloads folder (or wherever you saved it).



**Step 3:** Click on mongosh-2.2.6-win32-x64 file folder and select bin folder.



**Step 4:** Select mongosh application and complete the MongoDB Shell installation process**Step 5:** Next Terminal Window Will Open. Then Run the command `mongo` to start the shell.

```
mongosh mongodb://127.0.0.1:27017
Please enter a MongoDB connection string (Default: mongodb://localhost/): mongo
mongo
Current Mongosh Log ID: 6659df0905ae32af1046b798
Connecting to:  mongodb://127.0.0.1:27017/mongo?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.5
Using MongoDB:  7.0.11
Using Mongosh:  2.2.5
mongosh 2.2.6 is available for download: https://www.mongodb.com/try/download/shell
For mongosh info see: https://docs.mongodb.com/mongodb-shell/

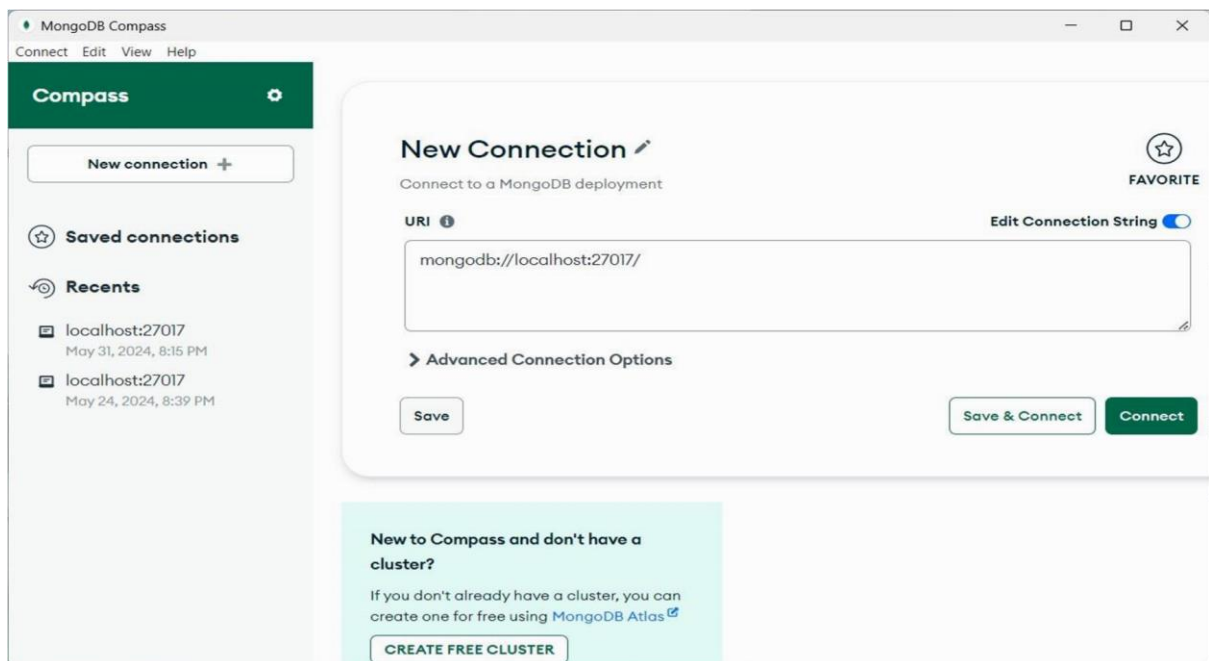
-----
The server generated these startup warnings when booting
2024-05-31T19:03:03.767+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
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mongo> |
```

MongoDB Compass:

## Connect to MongoDB database

Open MongoDB Compass and click on connect button.



Steps to work in Compass:

- Select the databases
- Click on create Database
- Give Database Name and Collection Name to create Database
- Click on create

