

# MongoDB

## INSTALLATION GUIDE

Version 5.0.14



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# 1 Preface

This guide provides instructions about installing and configuring MongoDB. This preface contains these topics:

- [Audience](#)
- [Prerequisites](#)
- [Documentation Accessibility](#)
- [Conventions](#)

## 1.1 Audience

MongoDB Installation Guide is intended for administrators or anyone installing MongoDB on a computer.

## 1.2 Prerequisites

- A supported Microsoft Windows operating system installed and tested on your computer system
- Administrative privileges on the computer where you installed SQL Database software
- Knowledge about the following concepts:
  - Firewalls
  - Public and private networks
  - Connected applications

## 1.3 Documentation Accessibility

Logilab ELN documentation set consists of the following:

1. Logilab ELN Installation Guide
2. Logilab ELN User Manual

### 3. MongoDB Installation Guide

## 1.4 Conventions

The following text conventions are used in this document:

### 1.4.1 Keyboard

Keys are referred to throughout the guide in the following way:

[ENTER] – denotes the return or enter key, [DELETE] – denotes the Delete key and so on.

Where a command requires two keys to be pressed, the manual displays this as follows:

[CTRL][P] – this means press the letter “p” while holding down the Control key.

### 1.4.2 Callout

Callouts are used to denote an action or describe something in the interface.



Click here

## 2 System requirements

### 2.1 Hardware Requirements

Computer	Component	Minimum requirement
Client	Processor	Pentium III More than 700 MHz
	RAM	16 GB or higher
	Hard disk	20 GB of free space
	Network Access	100 Mbps speed or higher
Server	Processor	Xeon Class 3GHz
	RAM	16 GB or higher
	Hard disk	40 GB of free space for installation of database and App server. Minimum RAID I for data protection

## 2.2 Software Requirements

Computer	Minimum requirement
Client	<p>Microsoft® Windows® 2000 or Windows® XP or Windows Vista or higher(needs special version of client)</p> <p>Windows 7 or Windows 8 or Windows 10 (normal version)</p> <p>Latest version of Google Chrome</p>
Server	<p>Microsoft® Windows® 2012 server or higher.</p> <p>MS SQL Server 2017 or higher</p> <p>Apache Tomcat Manager 8.0 or above installed with memory pool up to 3GB maximum.</p>

## 3 Installation

MongoDB installation process consists of the following steps:

Step 1: [Download MongoDB 5.0.14](#)

Step 2: [Installing MongoDB](#)

Step 3: [Creating Database](#)

Step 4: [Backup MongoDB](#)

Step 5: [Restoring MongoDB](#)

### 3.1 Downloading MongoDB 5.0.14

To download MongoDB 5.0.14, follow these steps:

1. Open Browser, in the title bar type [www.mongodb.com/try/download/community](http://www.mongodb.com/try/download/community) and then press ENTER. The screen appears as shown in the figure:

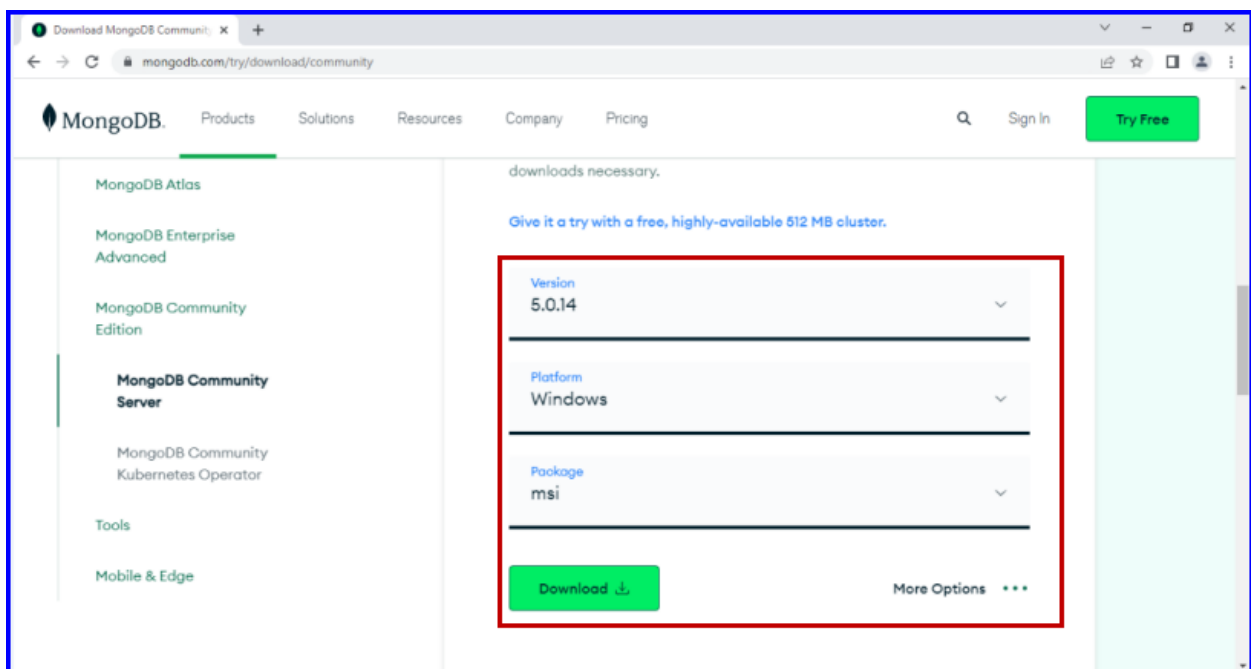


FIGURE: Downloading MongoDB

2. In the **Version** field, select **5.0.14**.



3. In the **Platform** field, select **Windows**.
4. In the **Package** field, select **msi**.
5. Click **Download**. The msi file is downloaded to the local storage.

## 3.2 Installing MongoDB

To install mongoDB, follow these steps:

1. Log in to an administrator account on your computer, quit all open applications, and log out any other users on your computer.
2. Double-click **MongoDB-windows-x86\_64-5.0.14-signed** file. The **MongoDB Setup Wizard** appears as shown in the figure:

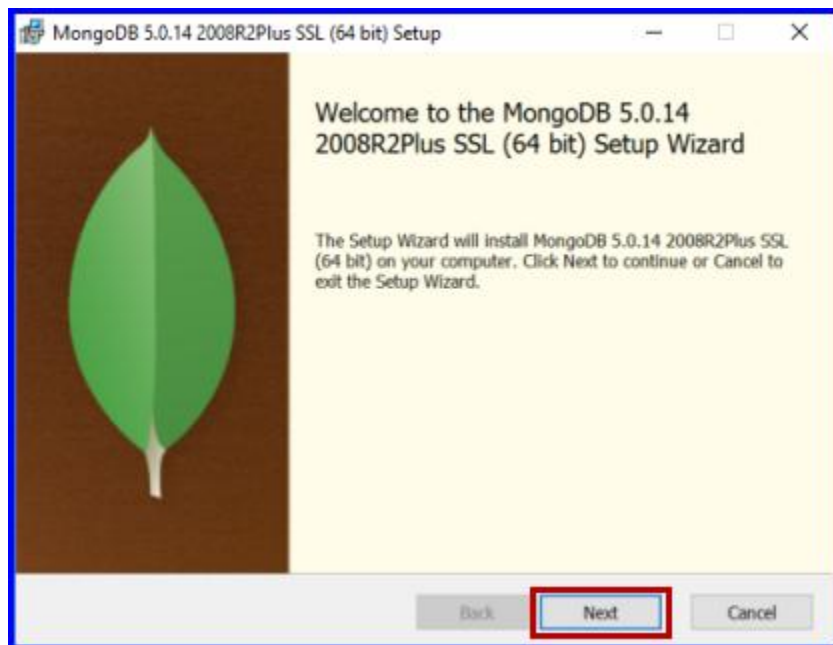


FIGURE: MongoDB Setup Wizard

3. Click **Next**. The **End – User License Agreement** dialog appears as shown in the figure:

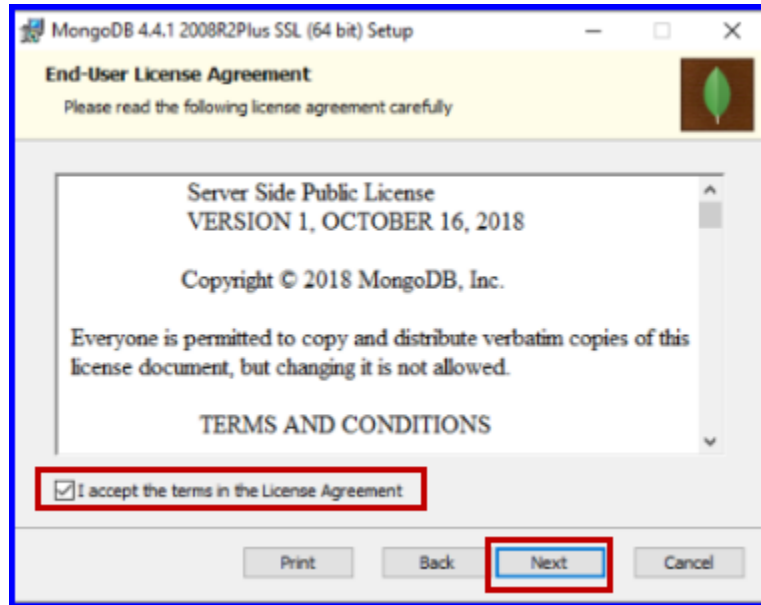


FIGURE: End-User License Agreement

4. Click to select **I accept the terms in the License Agreement** check box and then click **Next**. The **Choose Setup Type** dialog appears as shown in the figure:

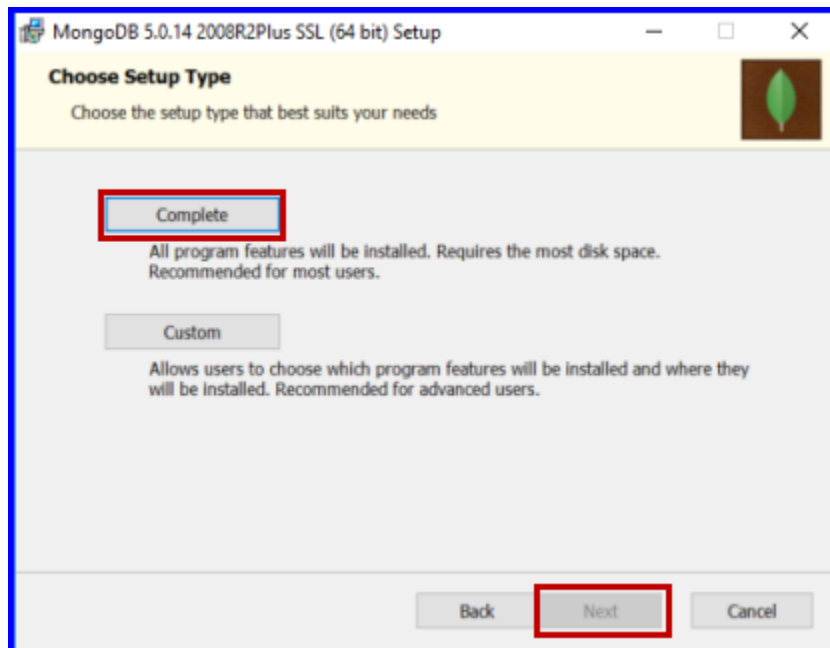


FIGURE: Choose Setup Type Dialog

5. Click to select **Complete** to install all program features. And then click **Next**. The **Service Configuration** dialog appears as shown in the figure:

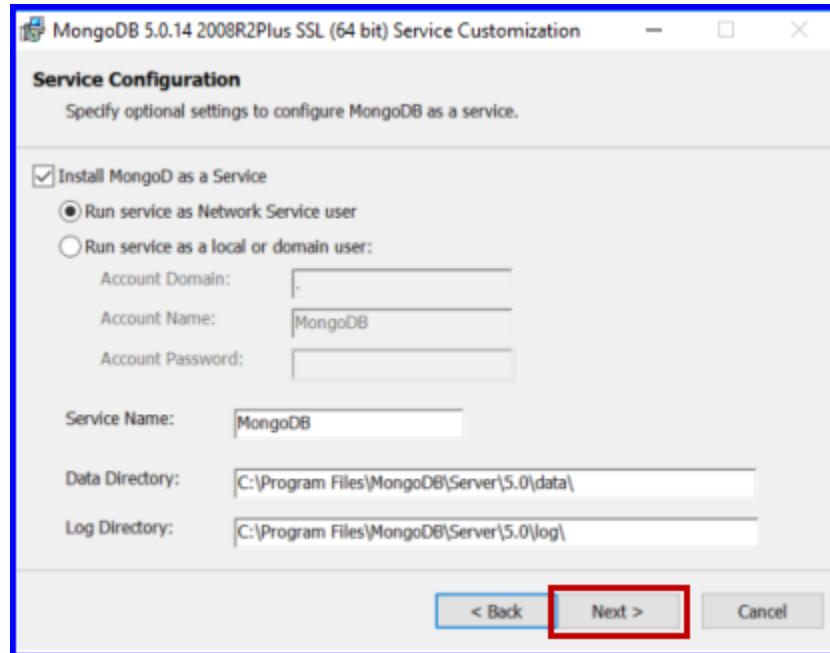


FIGURE: Service Configuration

6. Click **Next**. The **Install MongoDB Compass** dialog appears as shown in the figure:

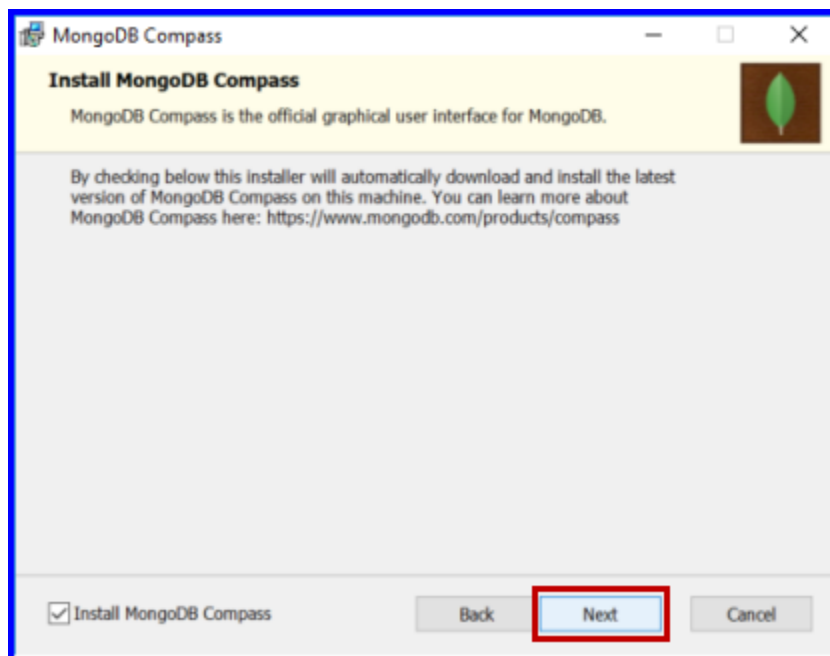


FIGURE: Install MongoDB Compass Dialog

7. Ensure that **Install MongoDB Compass** option is enabled.

- Click **Next**. The **Ready to Install MongoDB 5.0.14** dialog appears as shown in the figure:

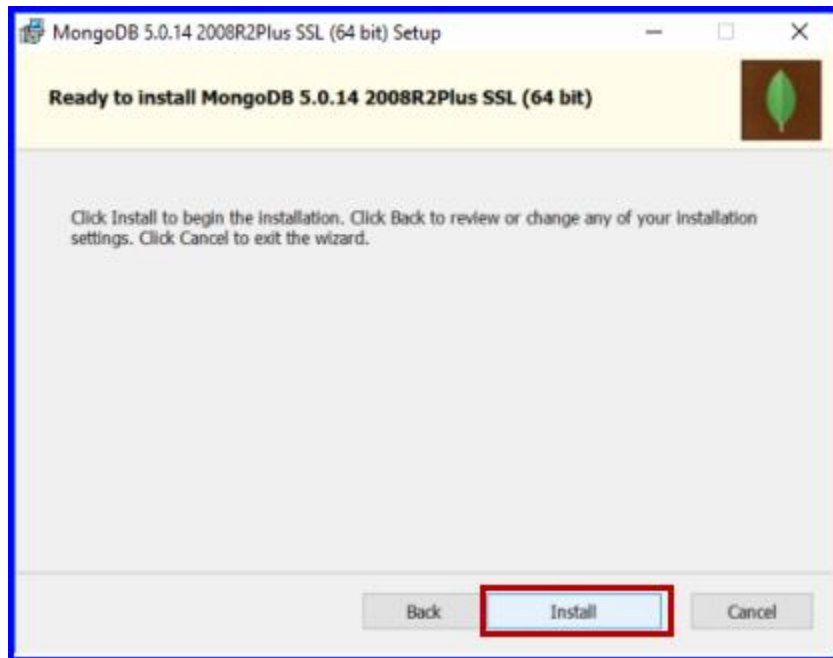


FIGURE: Ready to Install MongoDB Compass Dialog

- Click **Install**. MongoDB will be installed and the progress appears as shown in the figure:

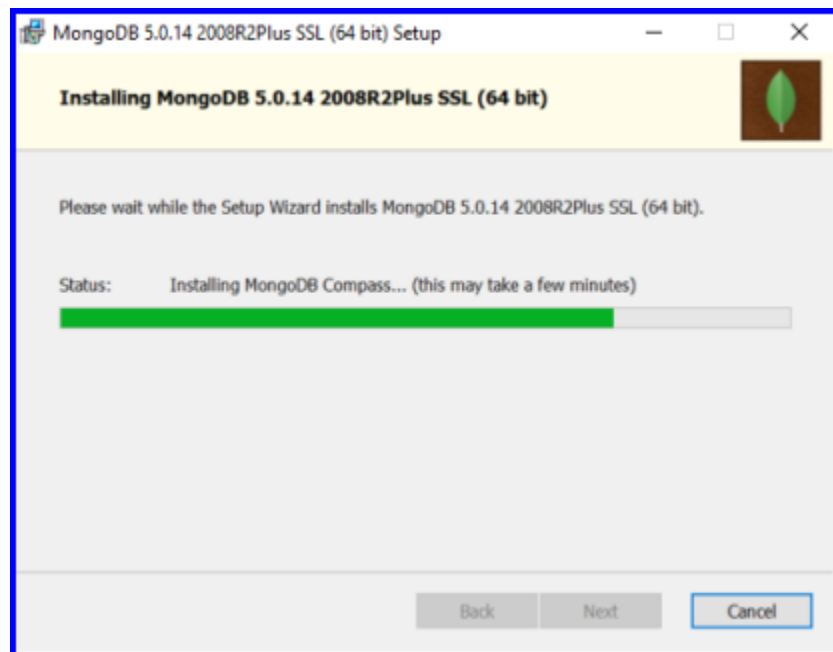


FIGURE: Installing MongoDB

10. The installation will be completed and the **Completed MongoDB 5.0.14 Setup Wizard** dialog appears as shown in the figure:

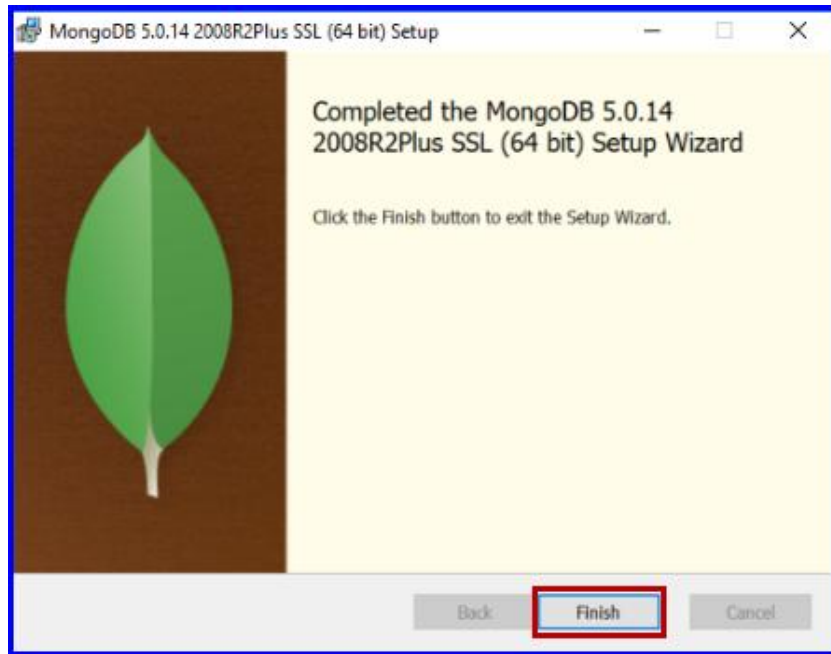


FIGURE: Completed MongoDB 5.0.14 Setup Dialog

11. Click **Finish**. If the MongoDB Compass is successfully installed, the **MongoDB Compass** screen appears as shown in the figure:

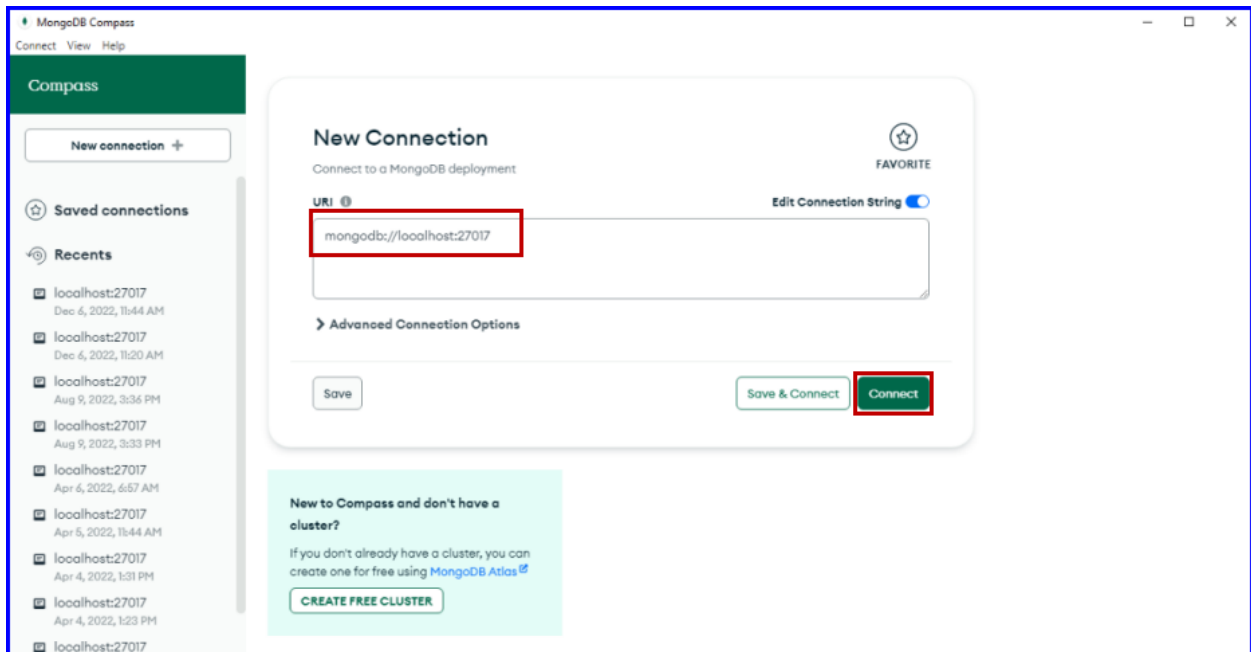


FIGURE: MongoDB Compass Screen

12. In the **URI** field, the default localhost and Port appears. Click **Connect** to connect MongoDB. The screen appears as shown in the figure:

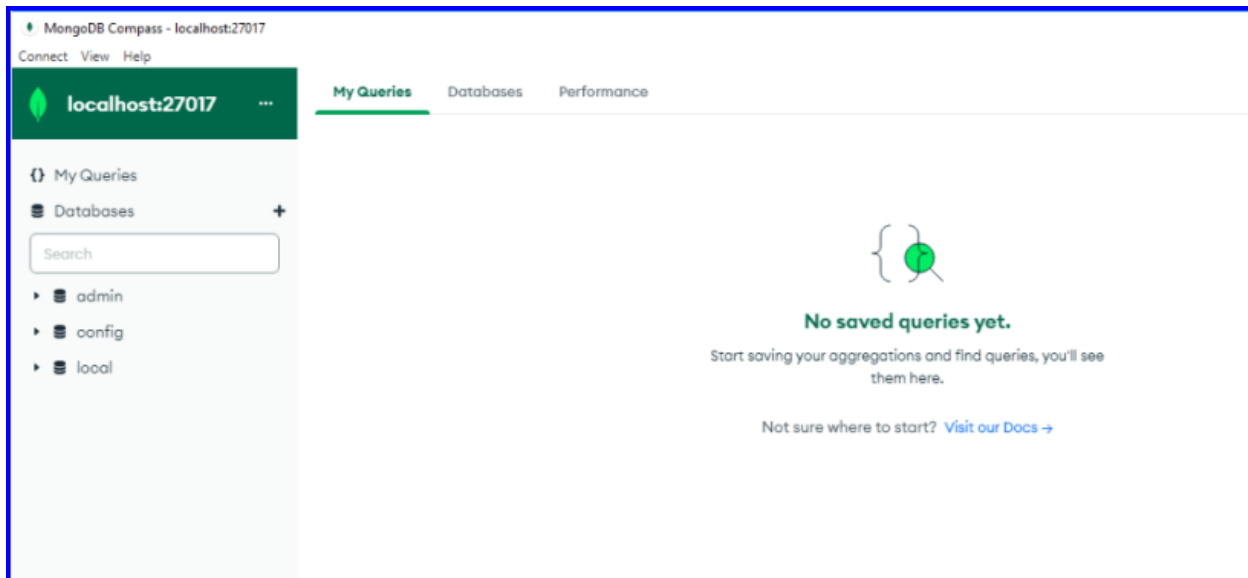


FIGURE: MongoDB Compass Screen - Database Connected

### 3.3 Creating Database

1. In the MongoDB Compass screen, go to the **Database** tab. In the **Database** tab click **CREATE DATABASE** as shown in the figure:

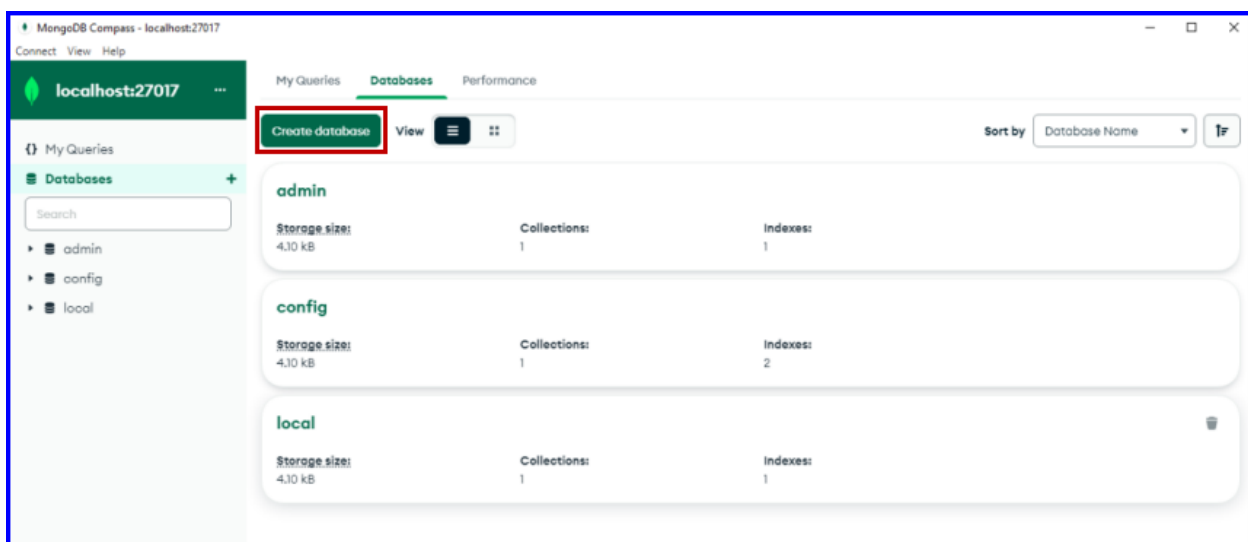
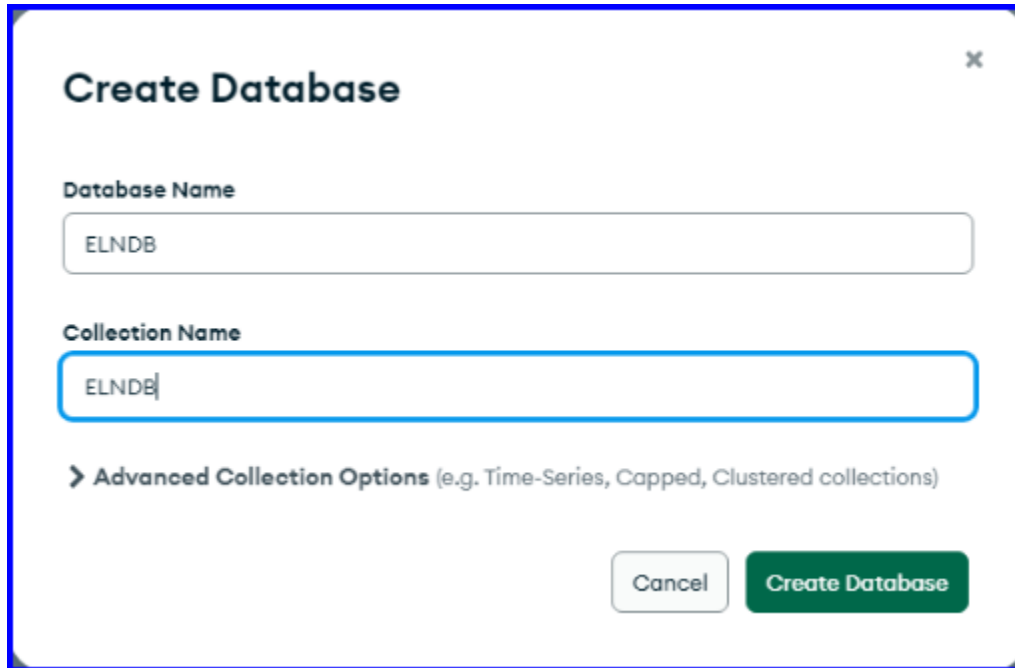


FIGURE: Database Tab

The **Create Database** dialog appears as shown in the figure:



The image shows a 'Create Database' dialog box with a title bar containing a close button (X). It has two input fields: 'Database Name' with the text 'ELNDB' and 'Collection Name' with the text 'ELNDB'. Below the fields is a link for 'Advanced Collection Options (e.g. Time-Series, Capped, Clustered collections)'. At the bottom right are two buttons: 'Cancel' and 'Create Database'.

FIGURE: Create Database Dialog

2. In the **Database Name** field, type the database name. Example: ELNDB
3. In the **Collection Name** field, type collection name. Example: ELNDB
4. Click **CREATE DATABASE**. The database is created and appears as shown in the figure:

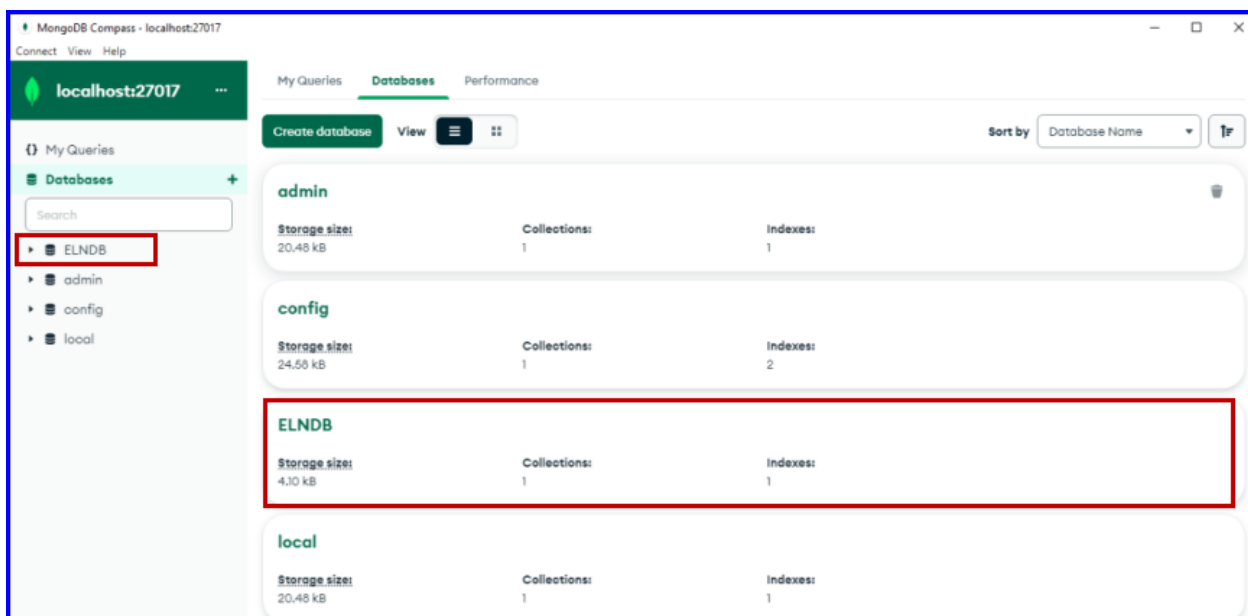


FIGURE: Database Created

## 3.4 MongoDB Shortcut Icon

If MongoDB Compass is successfully installed, the MongoDB Compass shortcut icon appears on the Desktop as shown in the figure:



FIGURE: Desktop Showing MongoDB Shortcut Icon

5. Double - click the icon to open MongoDB Compass.

## 3.5 Backup and Restore MongoDB

### 3.5.1 Backup and Restore Tools

The **mongodump** and **mongorestore** exe files helps you to backup and restore databases in MongoDB. These files are available in the MongoDB setup folder that you received from your administrator. Before you backup or restore MongoDB, you must copy these files to the bin folder. To do so, follow these steps:



1. Copy the **mongodump** and **mongorestore** exe files from the setup folder.
2. Go to the "*This PC/Windows(C:)/Program Files/MongoDB/Server/5.0/bin*" location.
3. Paste the **mongodump** and **mongorestore** exe files here as shown in the figure.

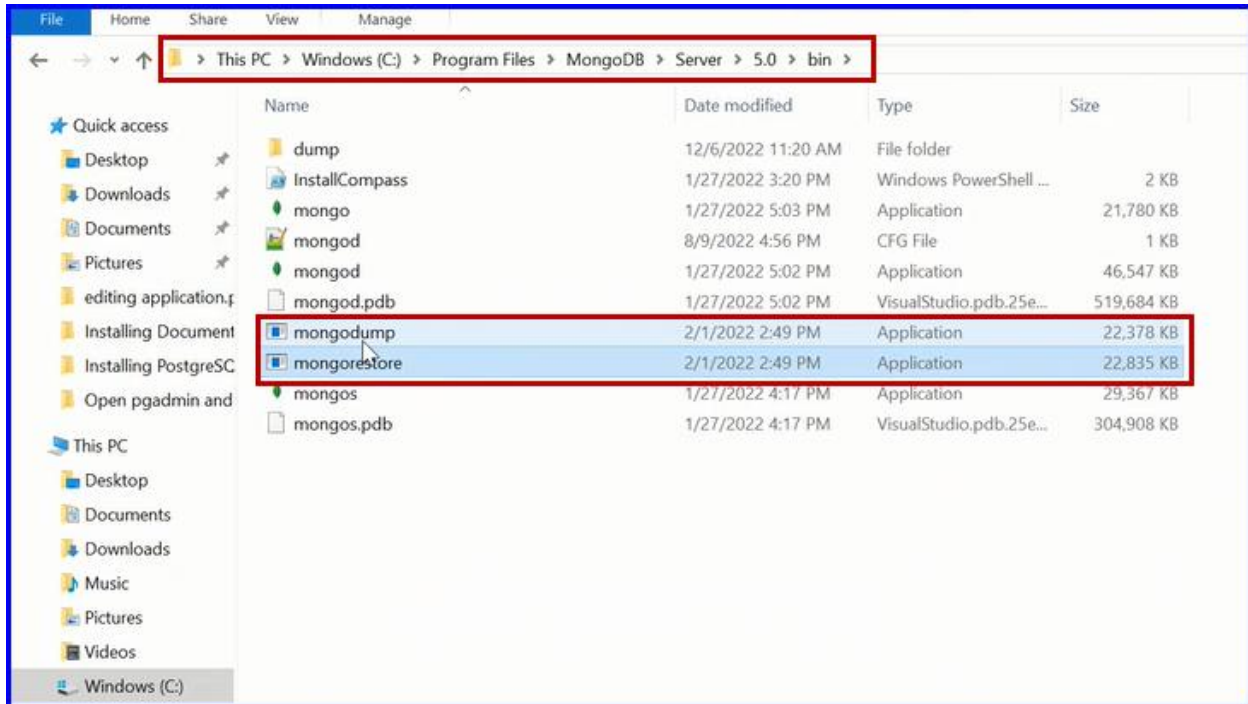


FIGURE: Backup and Restore Tools in MongoDB

### 3.5.2 Backup Database

Once you connect and create a database in MongoDB Compass, you can back up the database. To backup database in MongoDB, follow these steps:

1. Go to "*This PC/Windows(C:)/Program Files/MongoDB/Server/5.0/bin*" location.
2. Ensure that the **mongodump** and **mongorestore** exe files are available here as shown in the figure:

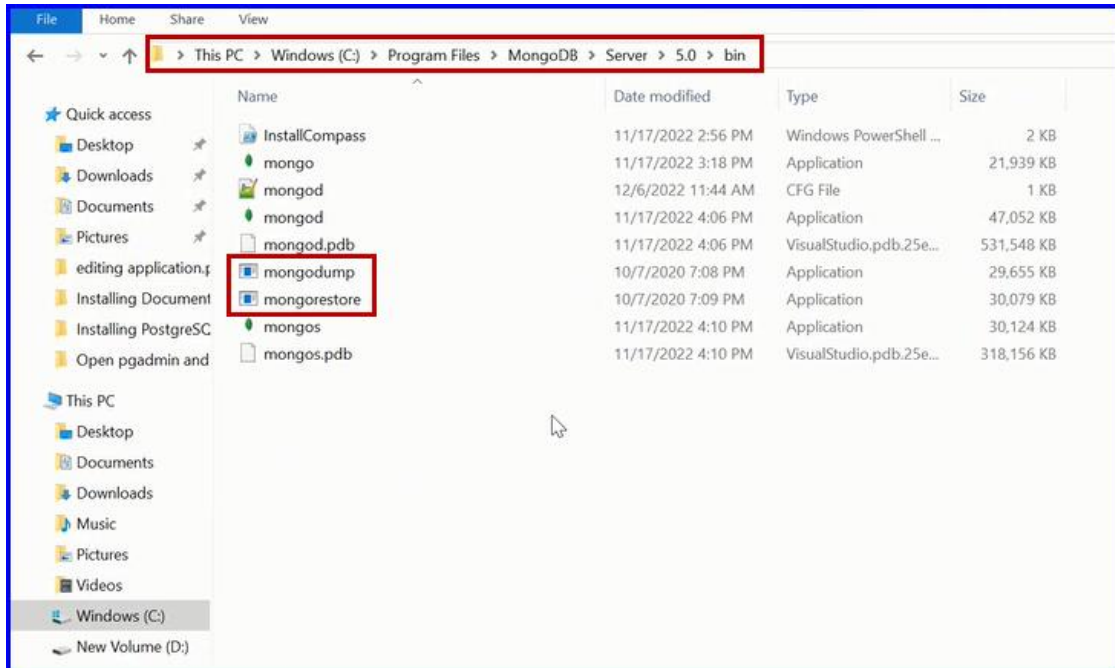


FIGURE: Backup MongoDB Database

*Note: If you do not see the **mongodump** and **mongorestore** exe files, copy them from the MongoDB setup folder and paste here.*

3. Right-click **mongodump** file and then click **Run as administrator**. The command prompt runs. You can see a **dumb** folder created as shown in the figure:

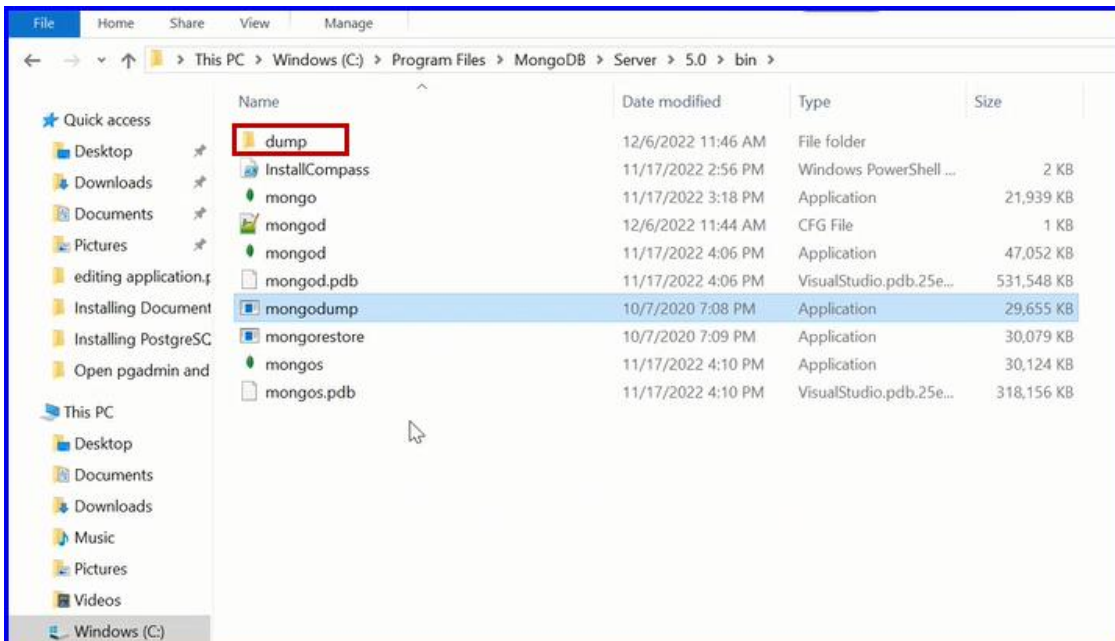


FIGURE: dump Folder Created

4. Open the **dump** folder. The **dump** folder appears as shown in the figure:

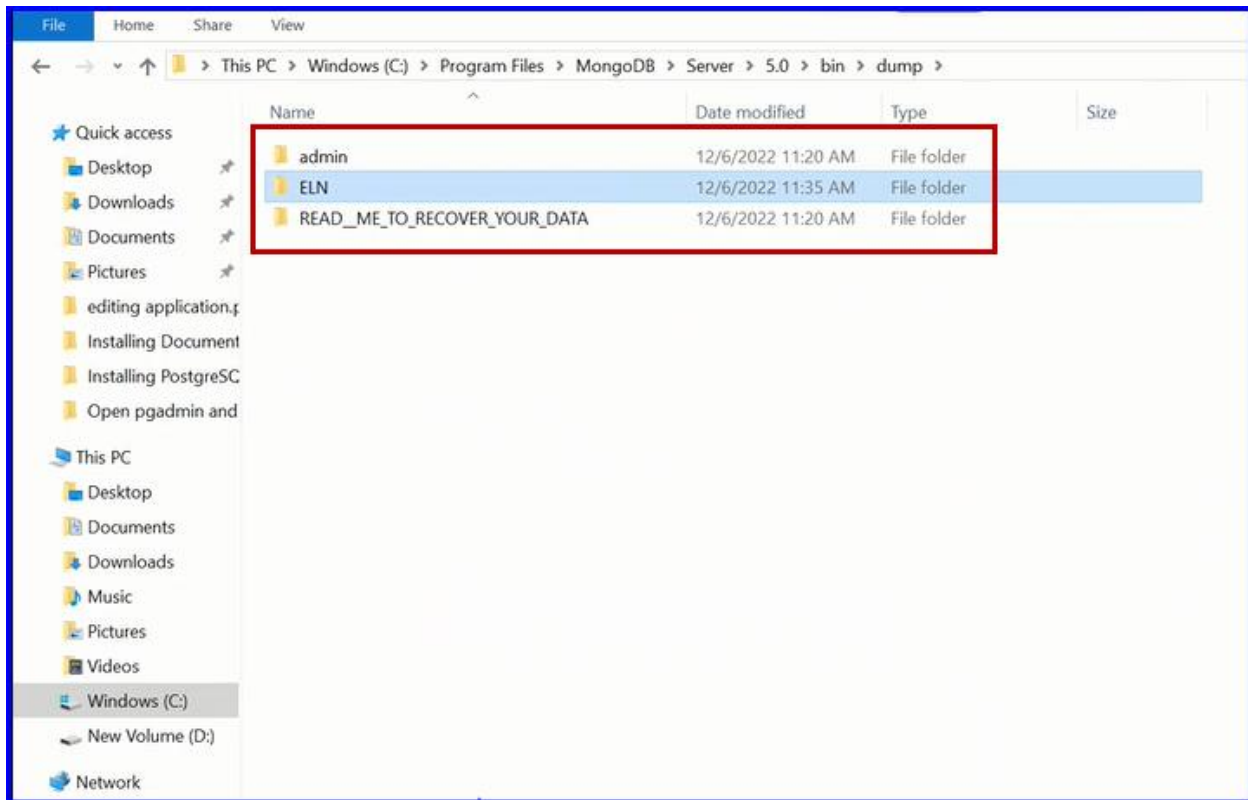


FIGURE: dump Folder Showing List of Backup Databases

You can see list of database backup folders. Backup folders are created for each database in MongoDB.

5. Copy these database folders to your local storage.

*Note: You will use these backup folders to restore databases.*

### 3.5.3 Restoring Database

To restore databases in MongoDB, you must copy the database backup folders to the **dumb** folder and then run **mongorestore** exe file.

To restore database in MongoDB, follow these steps:

1. Copy the database backup folders from your local storage.

*Note: The database backup folders are folders that you received from others as backup or folders that you copied from the **dump** folder after running the **mongodump** file when you have taken a backup.*

2. Paste them to "This PC/Windows(C:)/Program Files/MongoDB/Server/5.0/bin/dump" folder as shown in the figure:

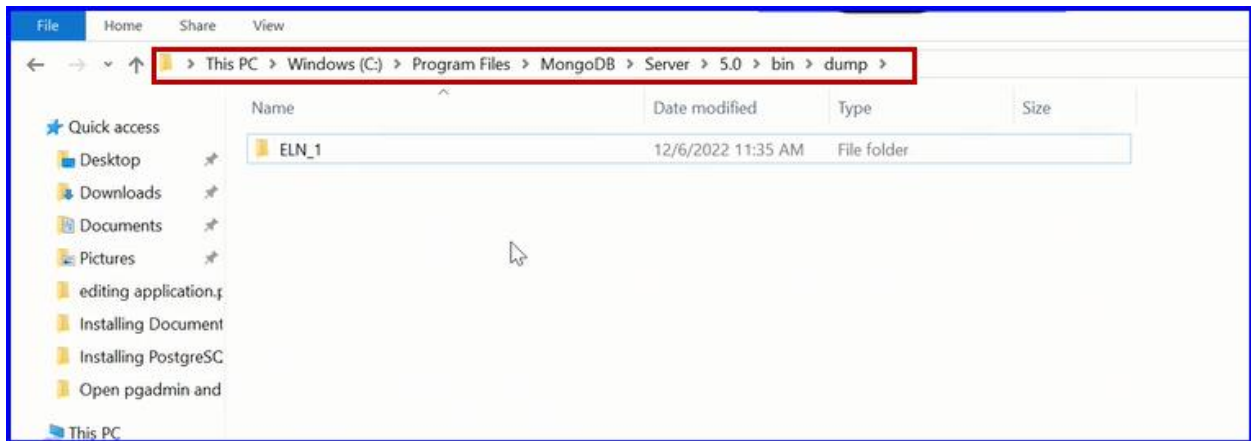


FIGURE: Restoring Database in MongoDB

3. Go to the "This PC/Windows(C:)/Program Files/MongoDB/Server/5.0/bin" folder.

**Note:** Before you paste the database backup folders, ensure the following:

- The dump folder must be empty.
- No database exists in MongoDB in the same name. If so, rename the folder.

4. Right-click **mongorestore** exe file and then click **Run as administrator**. The databases are restored in MongoDB with the folder names in the **dump** folder.

## 4 Annexure

### 4.1 Installing MongoDB Compass Manually

When you install MongoDB, sometimes the MongoDB Compass may not be installed successfully. In such scenario, you must uninstall the MongoDB Compass instance from your computer and then install Compass manually. To do so, follow these steps:

#### 4.1.1 Downloading MongoDB Compass

To download MongoDB Compass, follow these steps:

1. Open Browser, in the title bar type "https://www.mongodb.com/try/download/compass" and then press ENTER. The screen appears as shown in the figure:

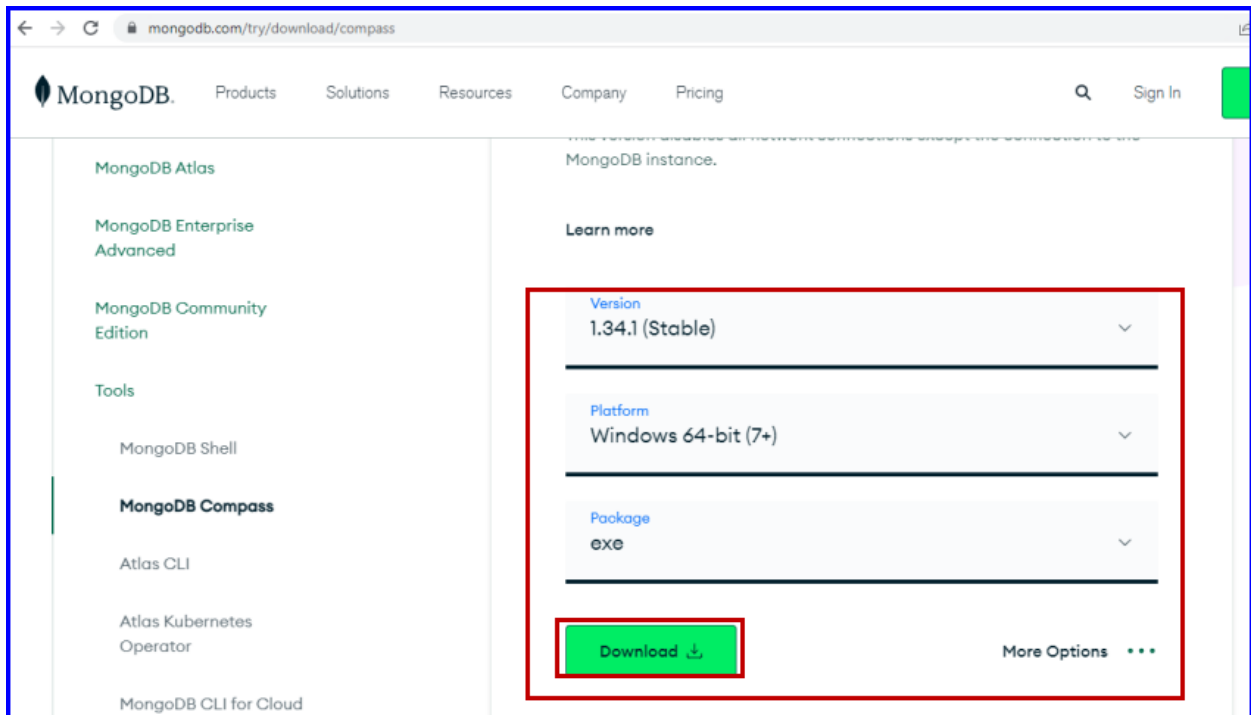


FIGURE: Downloading MongoDB Compass

2. Click **Download**. The exe file is downloaded to the local storage.

## 4.1.2 Installing MongoDB Compass

To install mongoDB Compass, follow these steps:

1. Right-click the **mongodb-compass-1.34.1-win-x64.exe** file and then click **Run as administrator**.

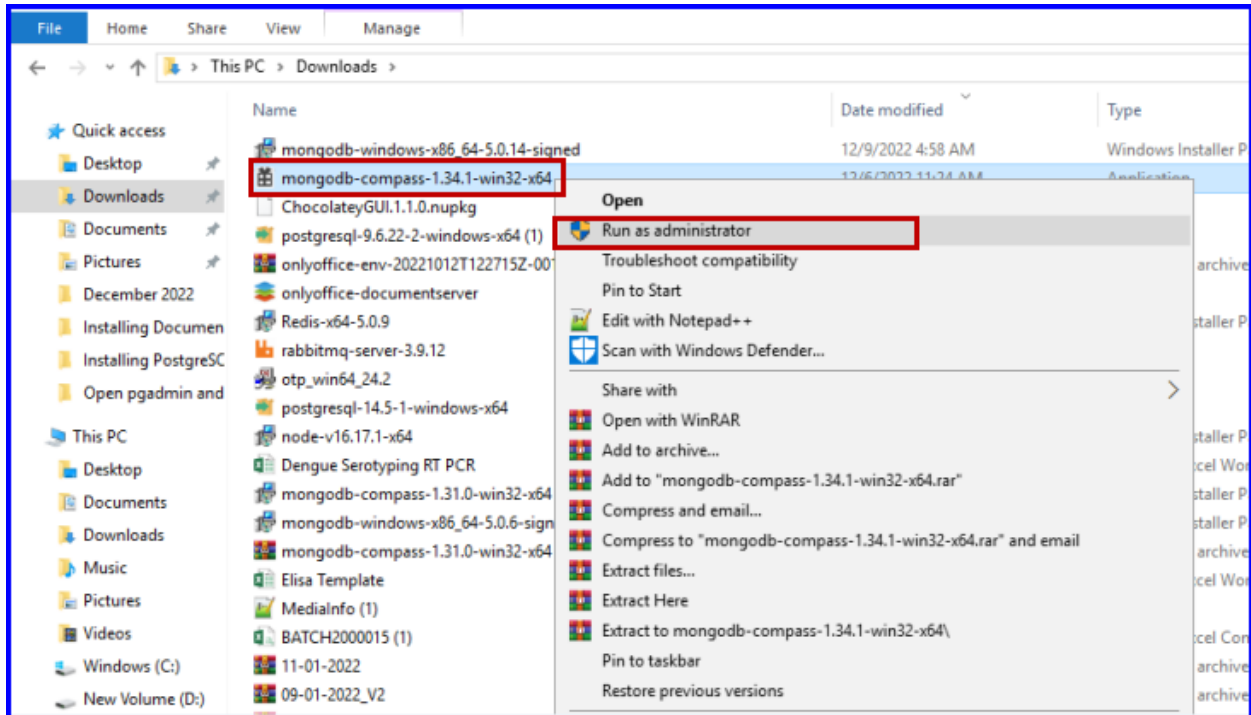


FIGURE: Installing MongoDB Compass 1

The appears as shown in the figure:

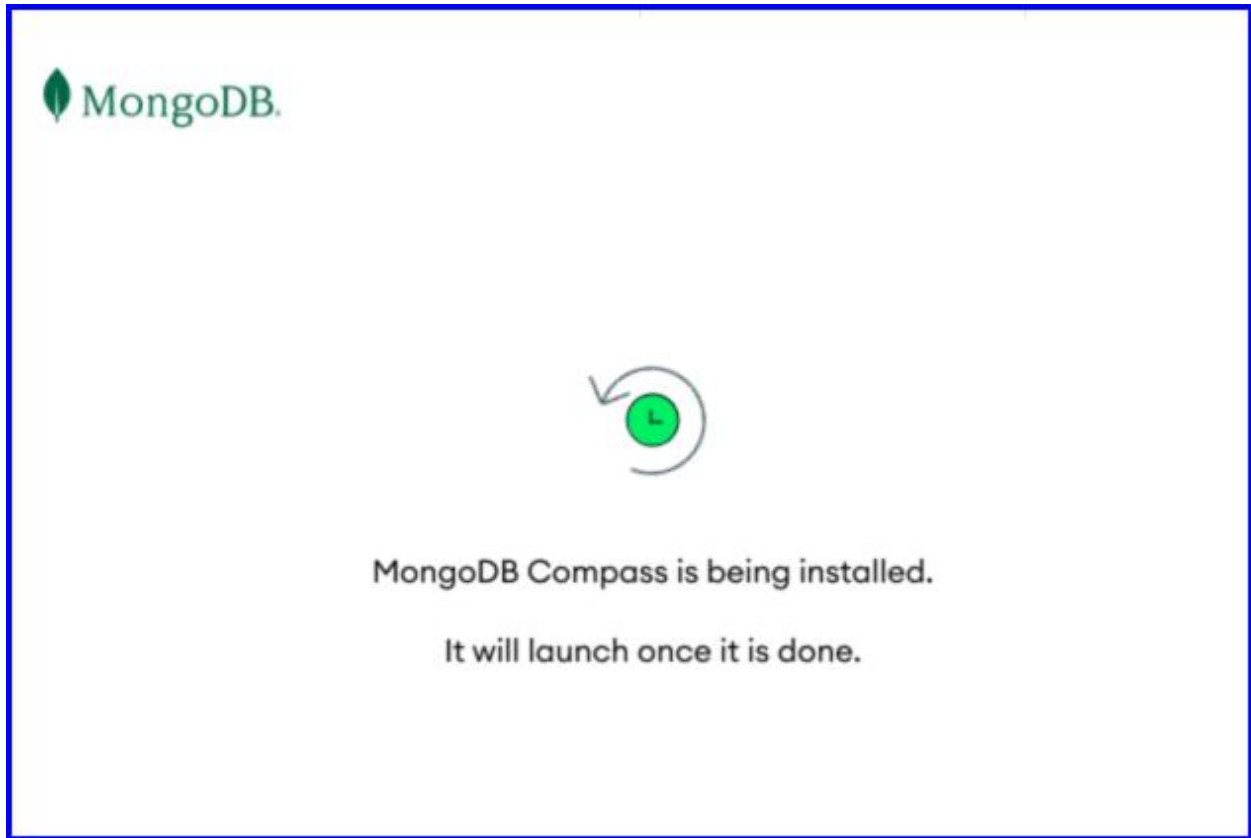


FIGURE: Installing MongoDB Compass 2

2. Once the MongoDB Compass is successfully installed, the **MongoDB Compass** screen appears as shown in the figure:

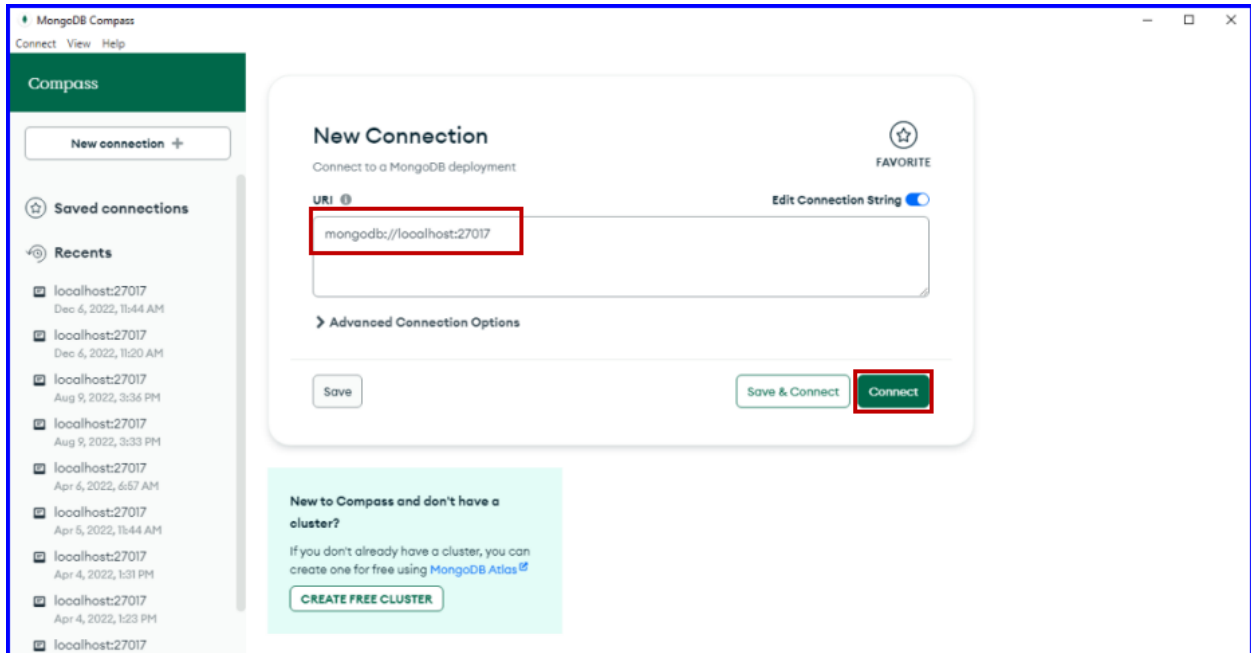


FIGURE: MongoDB Compass Screen

3. In the **URI** field, the default localhost and Port appears. Click **Connect** to connect MongoDB. The screen appears as shown in the figure:

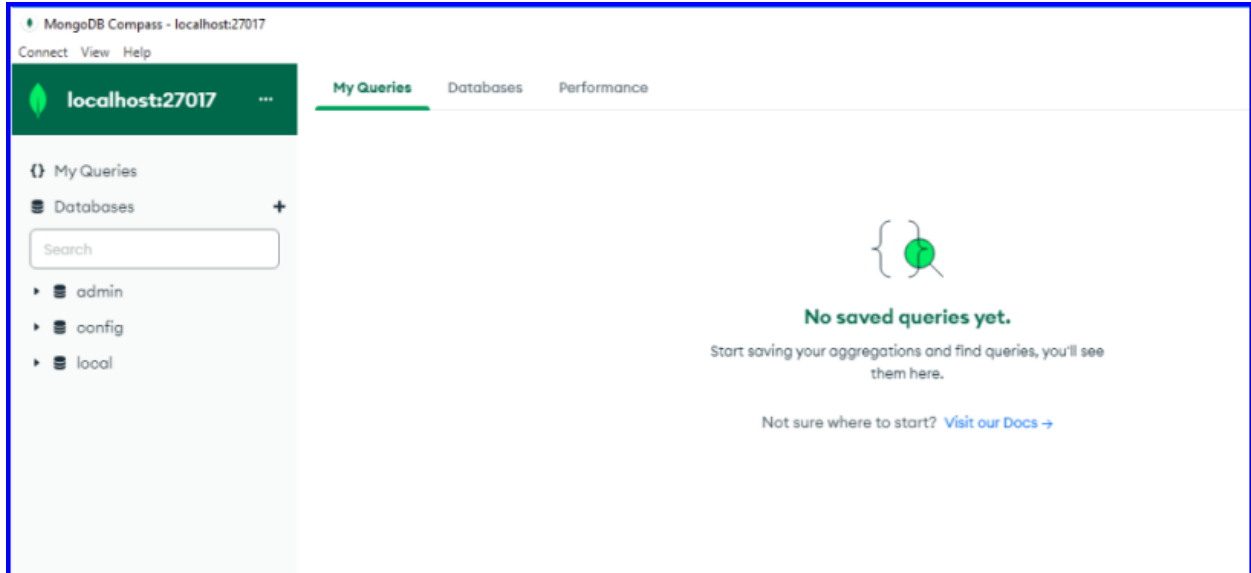


FIGURE: MongoDB Compass Screen - Database Connected



## 4.2 Uninstalling MongoDB

Before you uninstall MongoDB, ensure that you have taken a backup. To know more about how to backup MongoDB, [click here](#).

To uninstall MongoDB, follow these steps:

1. Go to **Control Panel > Programs > Programs and Features** as shown in the figure:

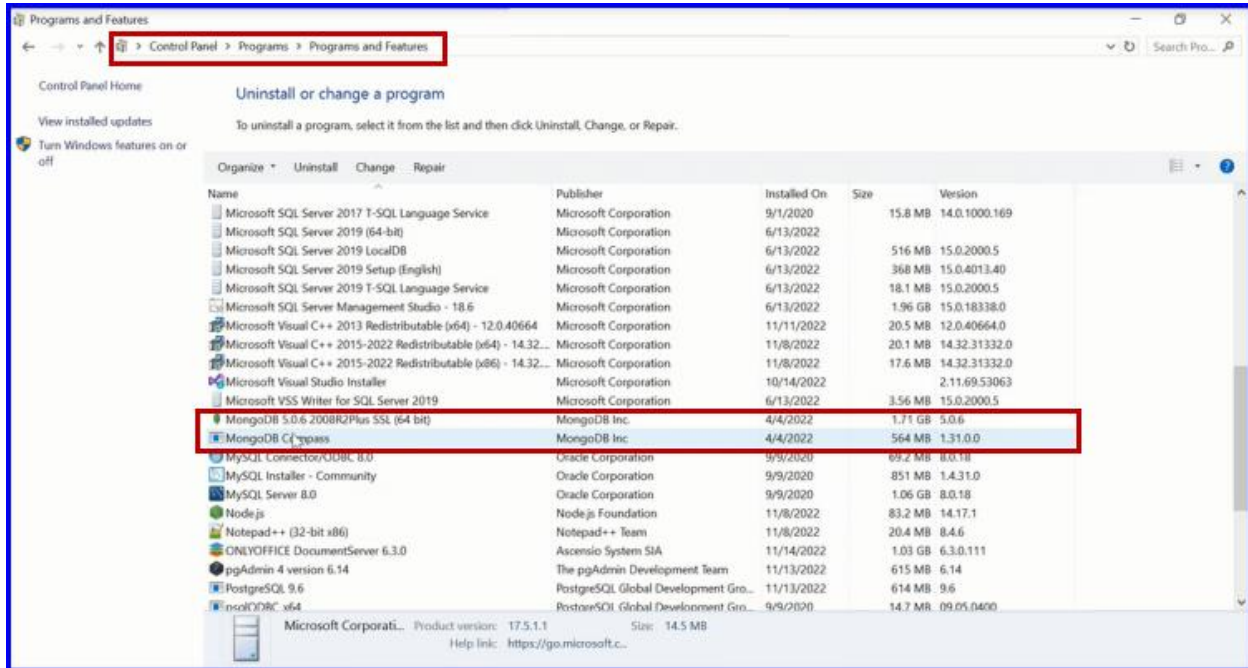


FIGURE: Uninstalling MongoDB

2. Uninstall MongoDB Compass.
3. Then uninstall MongoDB.
4. Go to the "This PC/Windows(C:)/Program Files" folder. And delete the MongoDB folder manually.
5. Delete the MongoDB Compass shortcut from the Desktop.