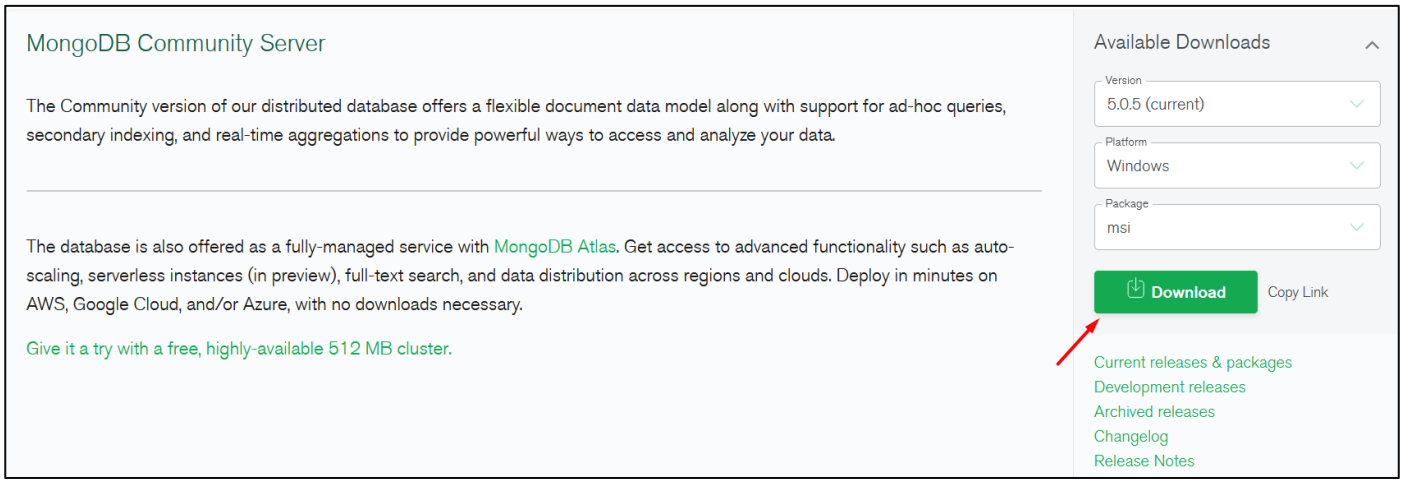
Mongo DB Installation Guide

Guide for downloading and installation of MongoDB on Windows for the ["MongoDB Course @ SoftUn"](#).

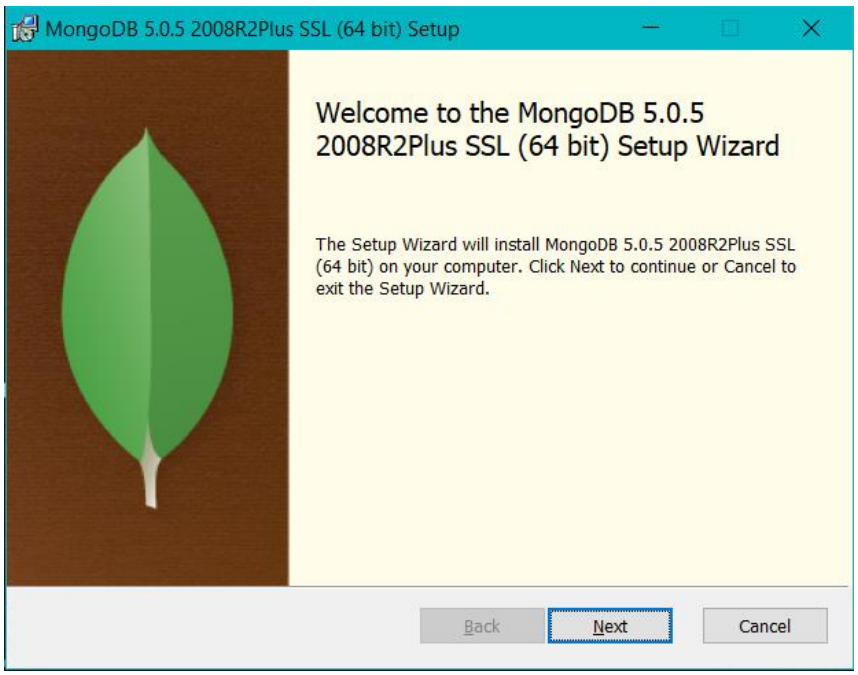
1. Downloading the MongoDB MSI Installer

Download the current version of MongoDB from here. Make sure you **select MSI** as the package you want to download:

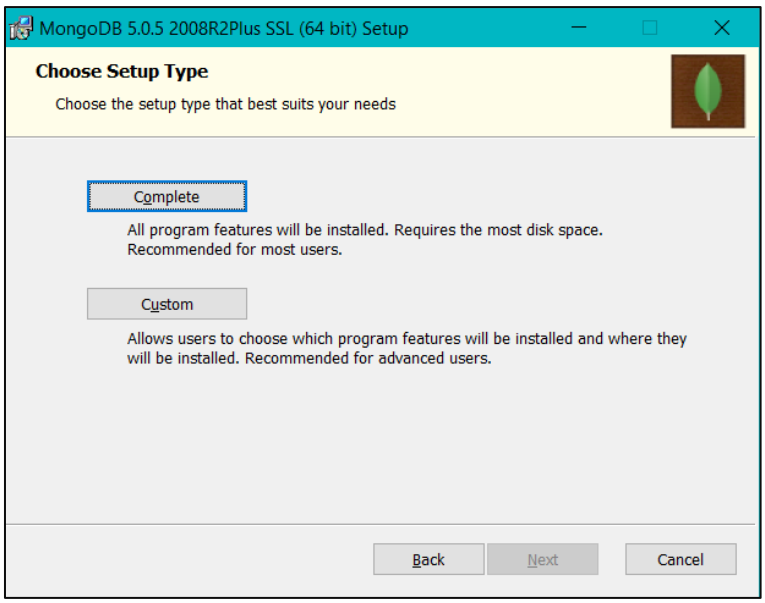


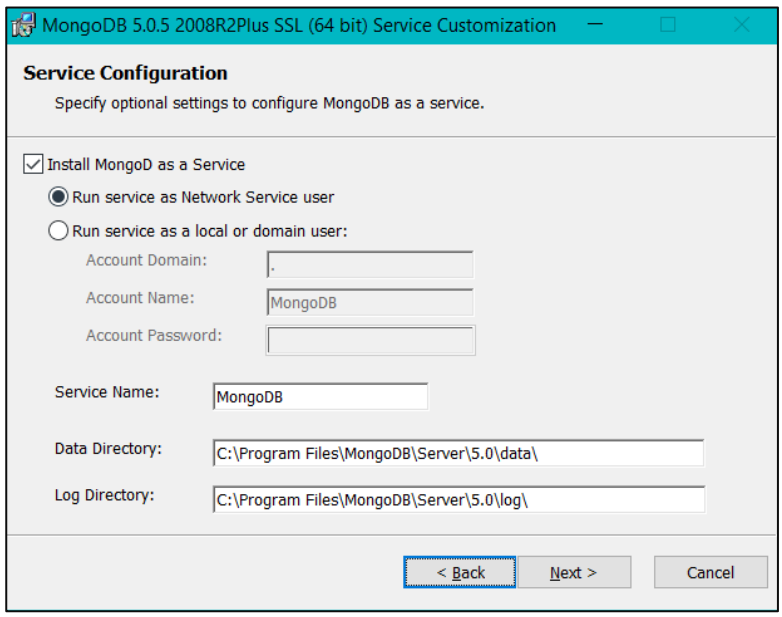
2. Installing MongoDB 5.0.5

Navigate to your downloads folder and double click on the **.msi** package you just downloaded. This will launch the installation wizard.



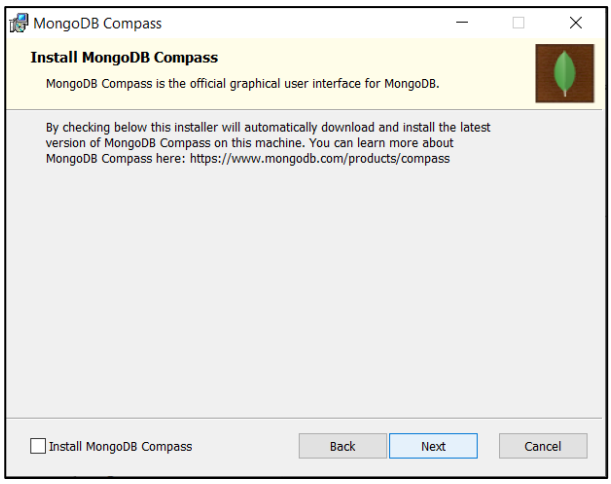
Click **Next**, then accept the license agreement and click **Next** again. Choose the **Complete** setup type:

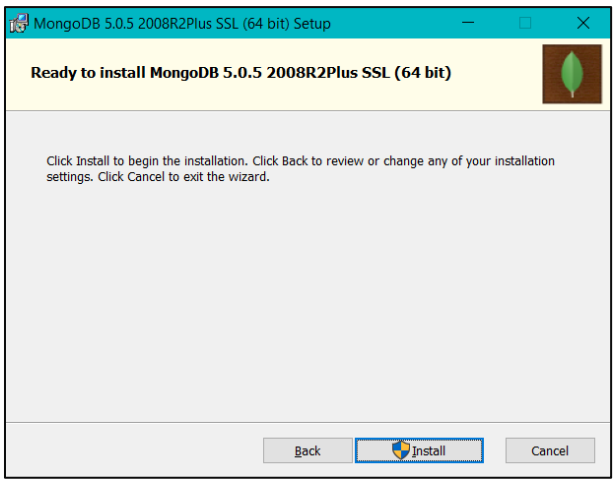


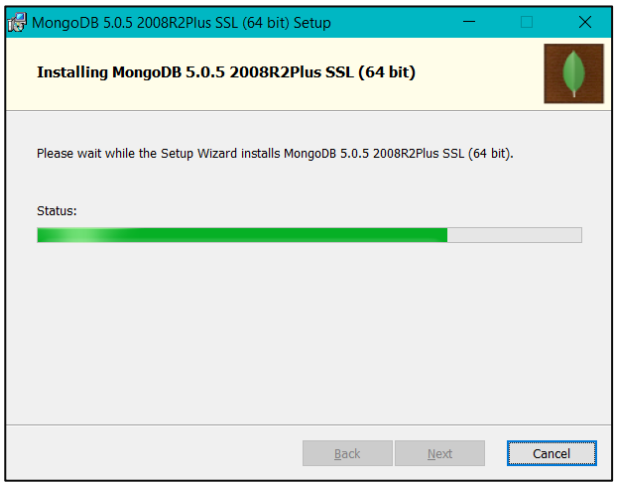


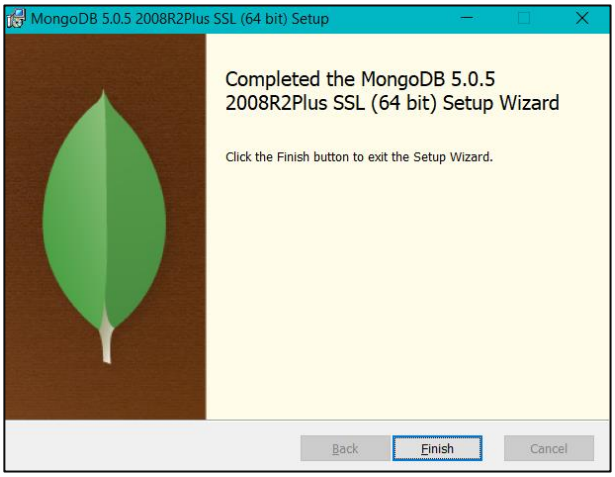
Here we stay with the default option **Install MongoDB as a Service** and **Run service as Network Service user**.

Then go through **Install** and **Finish** like this:





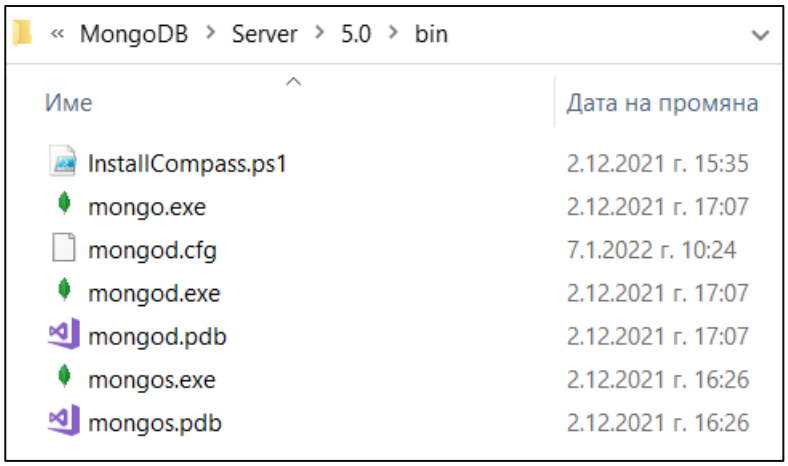




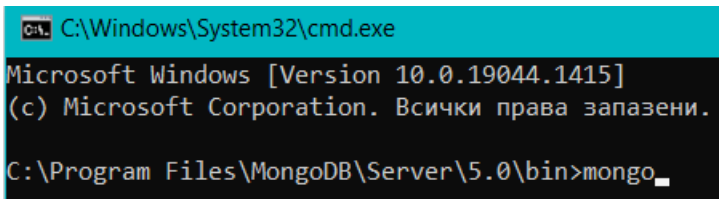
After finishing the installation you need to **restart** your system.

3. Testing the Console Client

Navigate to the installed MongoDB **bin** folder.



Open the folder in command prompt and run **>mongo** command.




```
C:\Program Files\MongoDB\Server\5.0\bin>mongo
MongoDB shell version v5.0.5
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("a4e47d01-f93e-4e8e-bb28-d209cb33b47a") }
MongoDB server version: 5.0.5
================
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:
        2022-01-07T10:24:52.764+02:00: 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()
---
>
```

This will run the **MongoDB shell**. You can use the mongo shell to query and update data as well as perform administrative operations. Here we can test and manually create a new database, add a collection to it.

To print a list of all databases on the server we use the **`>show dbs`** command.

```
> show dbs
admin   0.000GB
config  0.000GB
local   0.000GB
>
```

Creat new database by **`> use <databaseName>`**

```
> use myDB
switched to db myDB
>
```

To see the new database with the show command we should first put the same data in it. We can create a new collection with a document using **`> db.<collectionName>.insert(document)`** . Example:

```
> db.courses.insert({"name":"mongoDB course"})
```

Now **`> show dbs`** will show us our new database:

```
> show dbs
admin   0.000GB
config  0.000GB
local   0.000GB
myDB    0.000GB
>
```

And **`> show collections`** will show us the new collection:

```
> show collections;
courses
>
```

Executing **`> db.collection.find()`** in the mongo shell automatically iterates the cursor to display up to the first 20 documents if any.

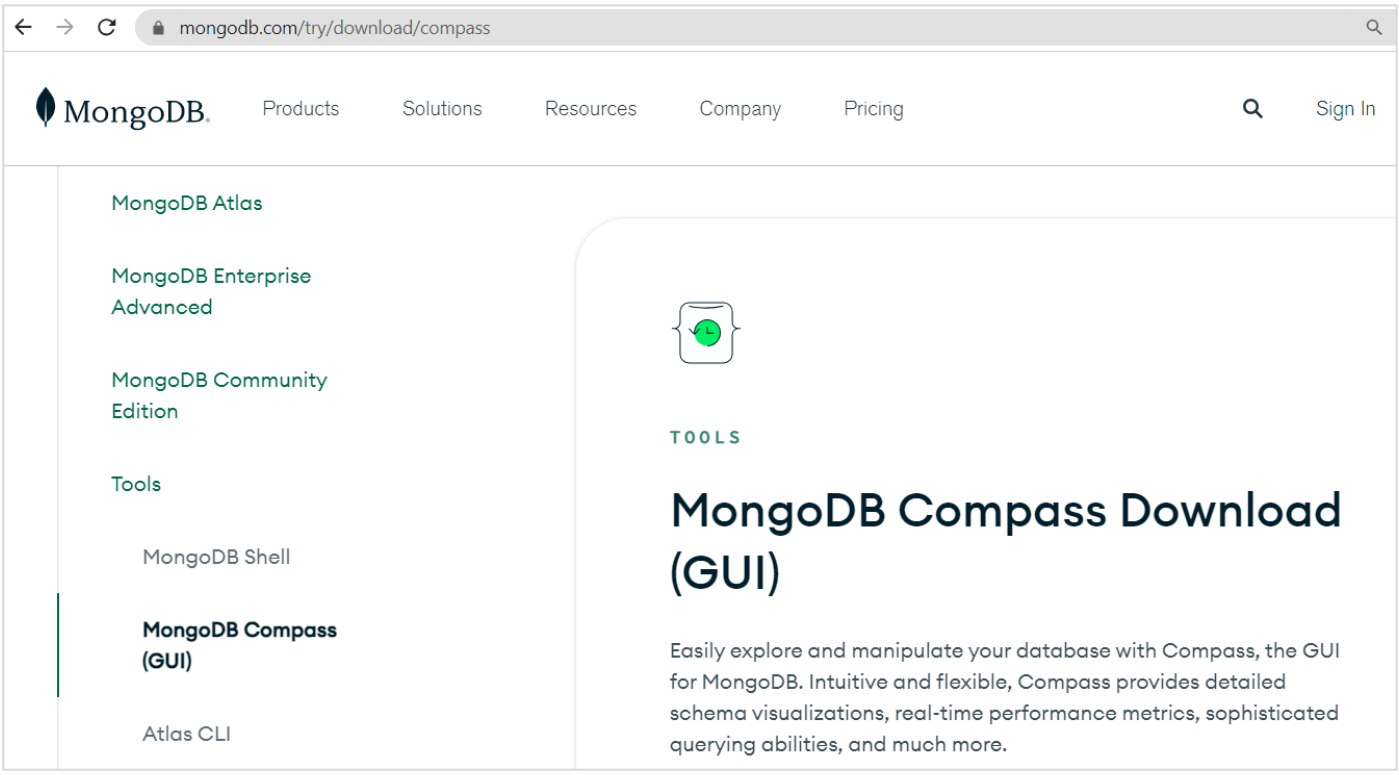
```
> db.courses.find()
{ "_id" : ObjectId("5e56c9f2dc6ce40322dd9e47"), "name" : "mongoDB course" }
>
```

Now you have MongoDB installed, tested, and ready to work. More info read on **The MongoDB 4.2 Manual.**

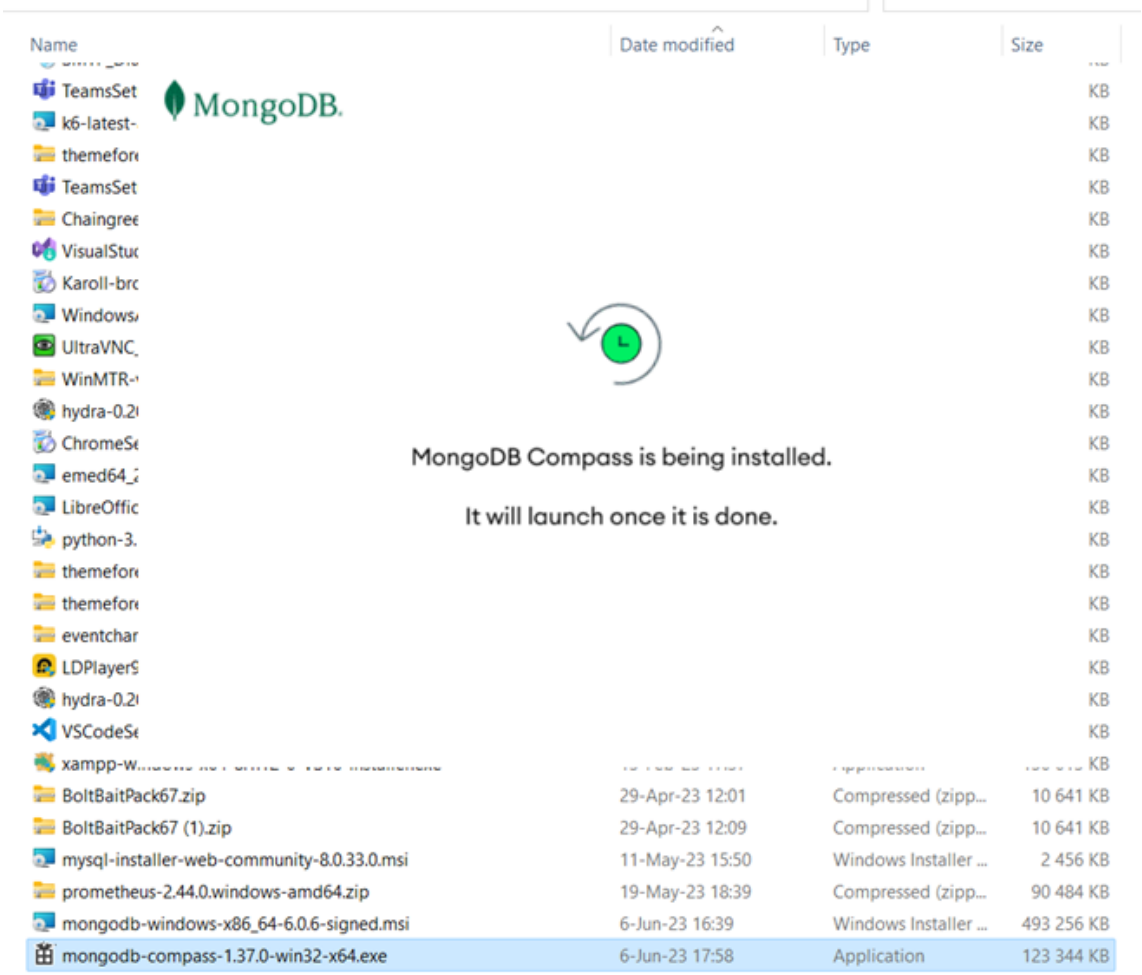
4. Installing MongoDB Compass

MongoDB Compass is a client GUI tool designed to manage and interact with MongoDB databases. It provides a user-friendly interface that allows developers and database administrators to visualize, explore, and manipulate data in MongoDB.

Download MongoDB Compass: https://www.mongodb.com/try/download/compass

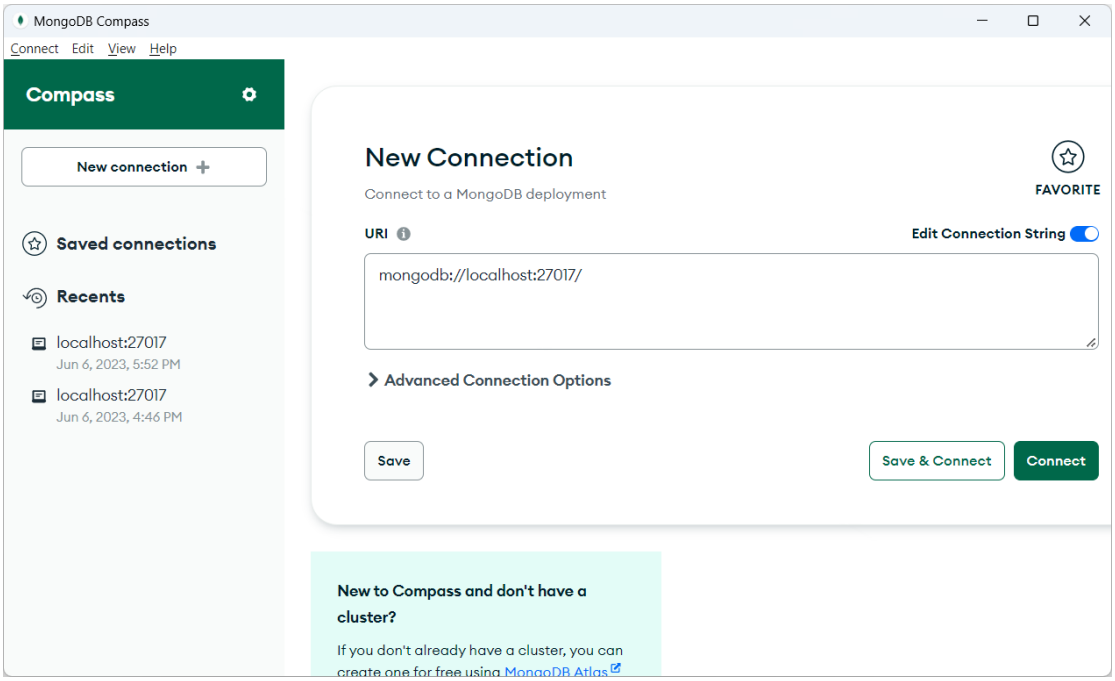


Install it on your laptop:

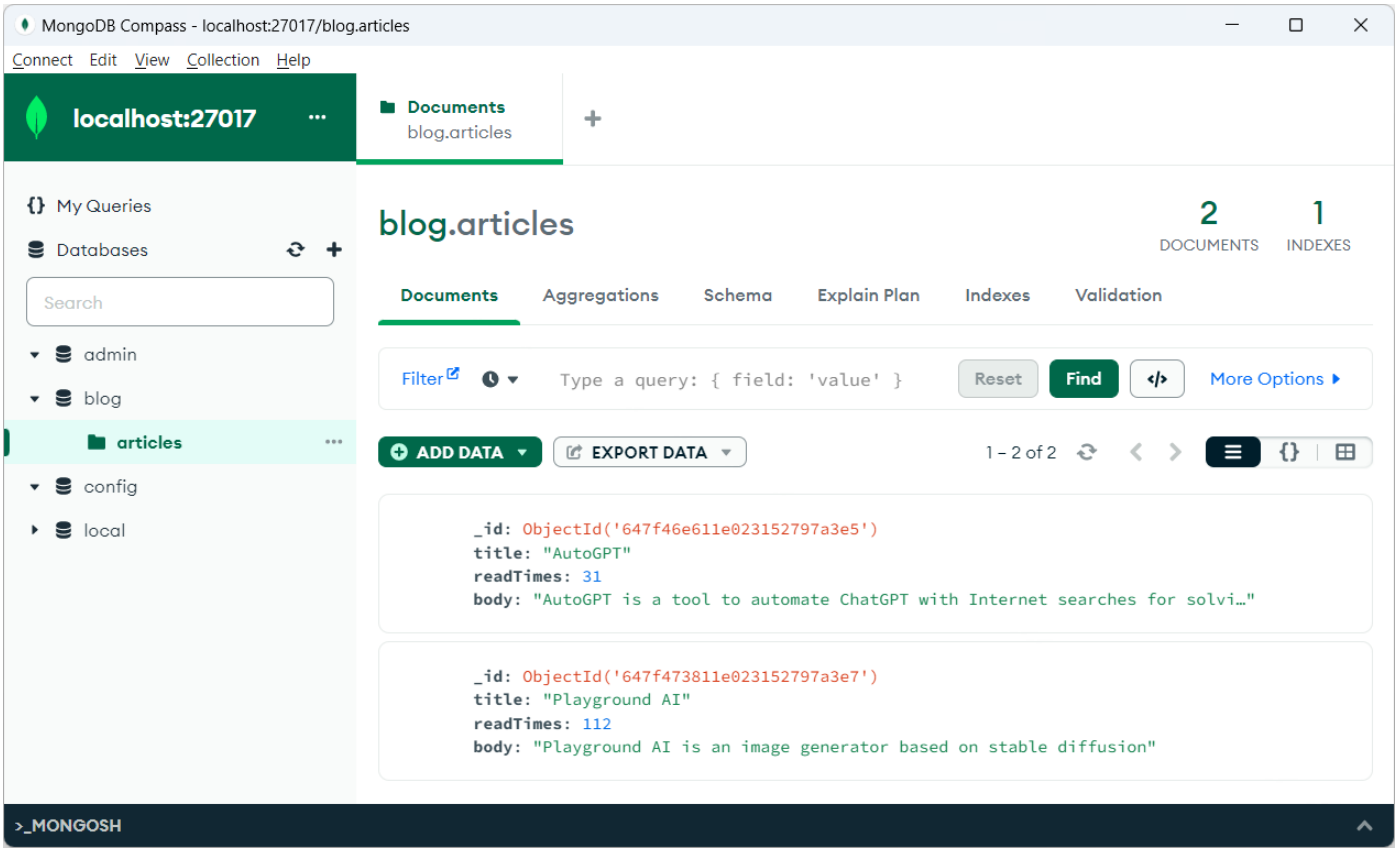


5. Playing with MongoDB Compass

Launch MongoDB Compass, after the installation and connect to the MongoDB database server.



Create a **database** "**blog**" and a **collection** "**article**" inside it and insert a **few objects** in it:



Sample JSON data. This is a sample data row:

```
{
  "title": "AutoGPT",
  "readTimes": 31,
  "body": "AutoGPT is a tool to automate ChatGPT with Internet searches for solving more complex tasks"
}
```

Another data row:

```
{
  "title": "Playground AI",
  "readTimes": 112,
  "body": "Playground AI is an image generator based on stable diffusion"
}
```