## **MONGODB INSTALLATION STEPS**

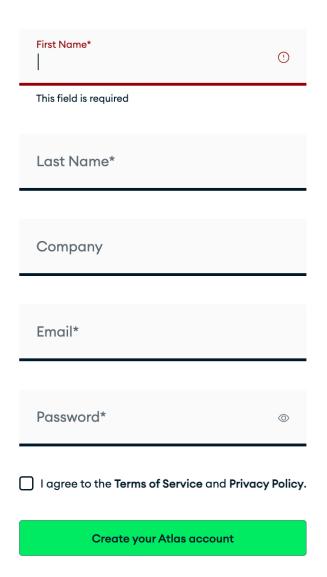
Signup on MongoDB Atlas to set up a server on their website:

https://www.mongodb.com/cloud/atlas/register

Fill up your details, use your personal email address, not your TTA email:

# Sign up

See what Atlas is capable of for free



After registering, very your email address:



## Great, now verify your email



Check your inbox at **jessica@techtalent.academy** and click the verification link inside to complete your registration. This link will expire shortly, so verify soon!

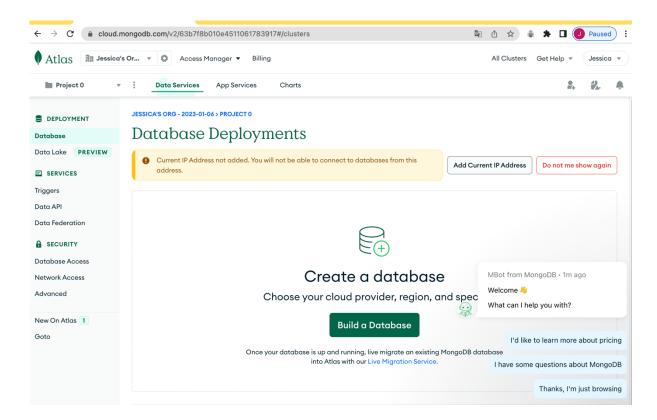
Don't see an email? Check your spam folder.

Link expired? Resend verification email

Login in to theur website here:

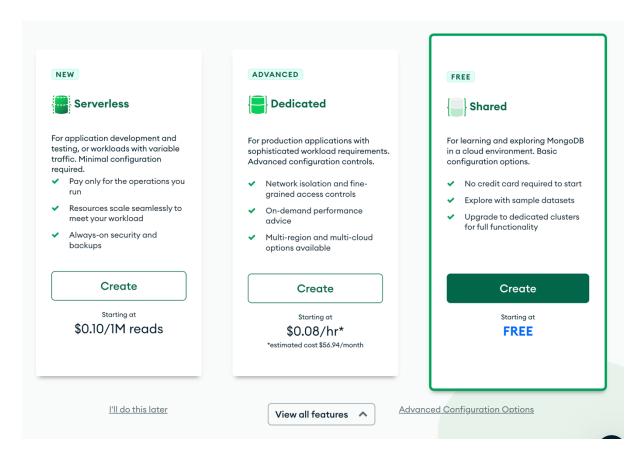
https://account.mongodb.com/account/login?signedOut=true

You should see the following window after login:

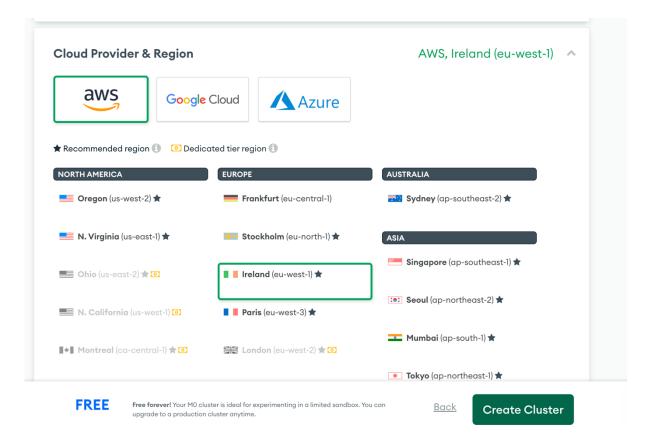


#### Click on Build a Database.

### Choose the Free shared plan:

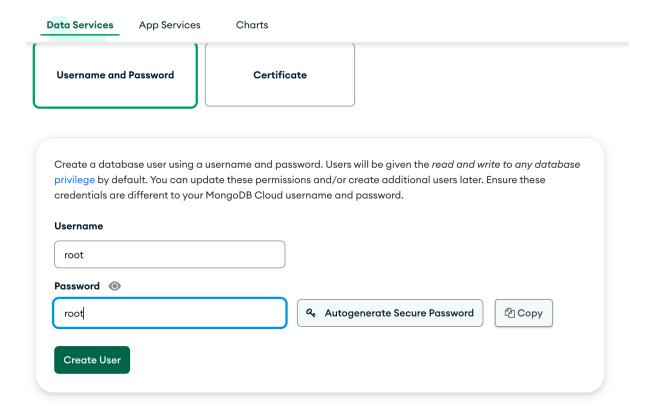


Dont change any following settings unless you are in a different region than the UK, click on a region that is closer to were you are located:



Click on Create Cluster.

Create the following **username and password**: use root for both! It will be easer to remember in case you forgot the password.



#### Click on Create User.

#### Leave My local environmenet selected:

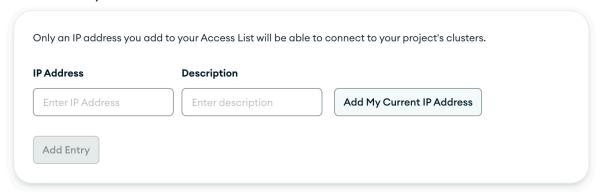
2 Where would you like to connect from?

Enable access for any network(s) that need to read and write data to your cluster.



## Click on Add my current IP address to link it to the server :

#### Add entries to your IP Access List



Click on Finish and Close at the bottom of the page:



You should get the following pop up window:

## Congratulations on setting up access rules!

You will now be able to connect to your deployments. You can continue to add and update access rules in <u>Database Access</u> and <u>Network Access</u>.

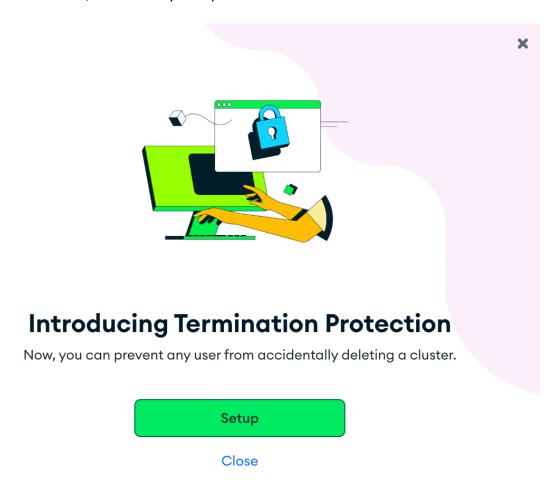
✓ Hide Quickstart guide in the navigation. You can visit Project Settings to access it in the future.

Go to Databases

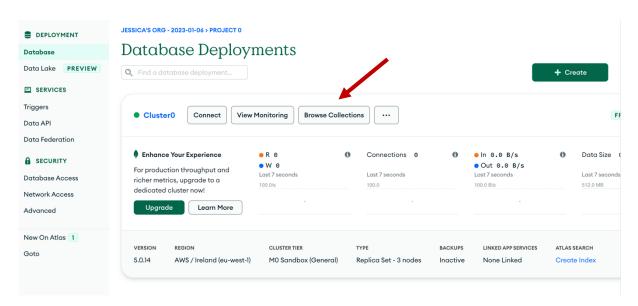
×

Click on Go to Databases.

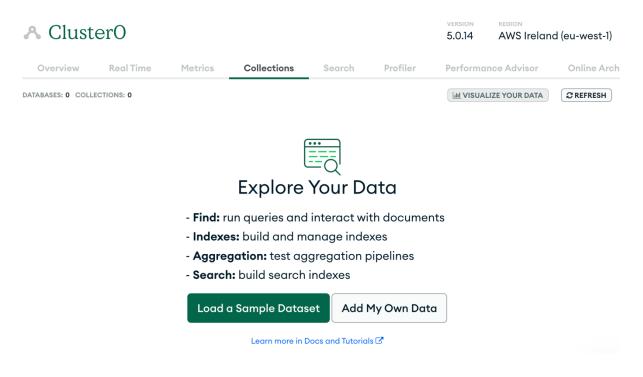
## Close the next window, don't do any set up:



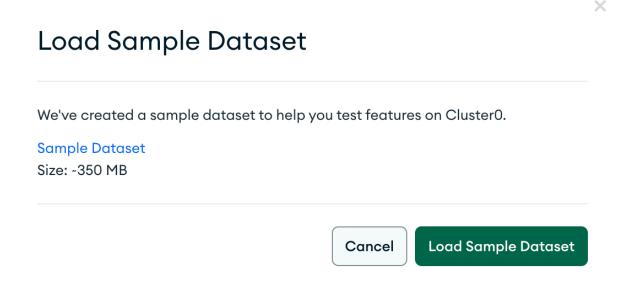
Now you have created a cluster. You should see the following:



Click on Browse Collections to add databases on your cluster:

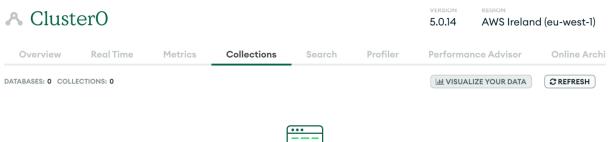


Click on Load a sample dataset.



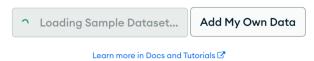
Click on Load sample dataset.

It might take 5-10 good minutes to load the files.



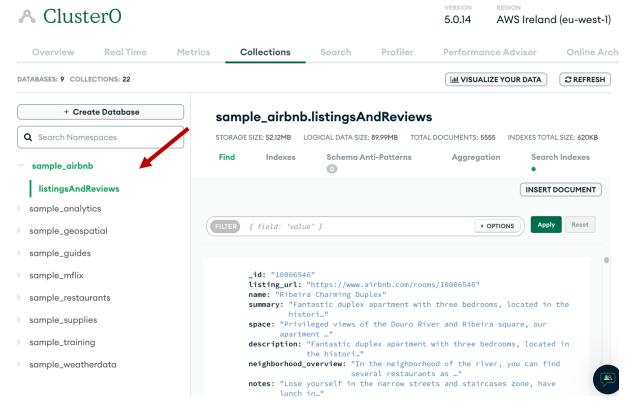


- Find: run queries and interact with documents
- Indexes: build and manage indexes
- Aggregation: test aggregation pipelines
- Search: build search indexes



Come back to check when the loading is done.

When the loading is done you should get a list of databases on the left side of the window:



Now we need to connect to our server using a GUI to retrieve and manipulate data from the databases. We will be using **MongoDB compass**. Download the software here choosing the right version for your oparating system:

https://www.mongodb.com/try/download/compass

# **MongoDB Compass Download**

Easily explore and manipulate your database with Compass, the GUI for MongoDB. Intuitive and flexible, Compass provides detailed schema visualizations, real-time performance metrics, sophisticated querying abilities, and much more.

Please note that MongoDB Compass comes in three versions: a full version with all features, a read-only version without write or delete capabilities, and an isolated edition, whose sole network connection is to the MongoDB instance.

For more information, see our documentation pages.

#### Compass

The full version of MongoDB Compass, with all features and capabilities.

#### **Readonly Edition**

This version is limited strictly to read operations, with all write and delete capabilities removed.

#### **Isolated Edition**

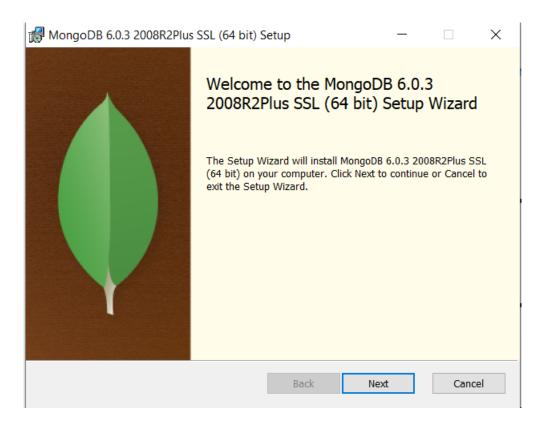
This version disables all network connections except the connection to the MongoDB instance.

#### Learn more

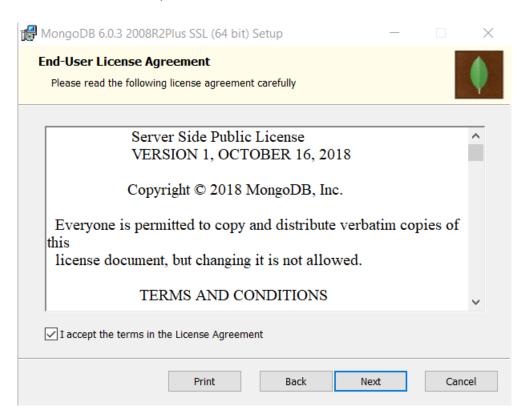
Version
1.34.2 (Stable)

## Follow the installation set up:

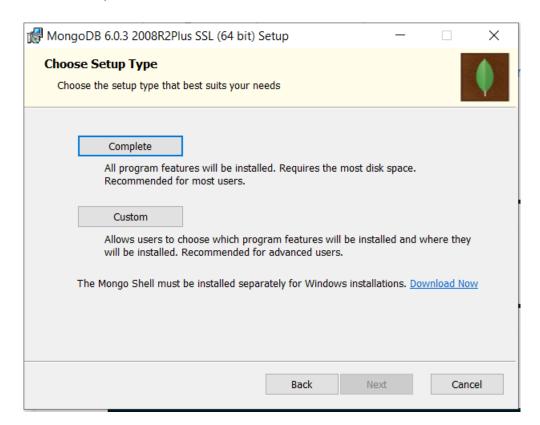
#### Click next:



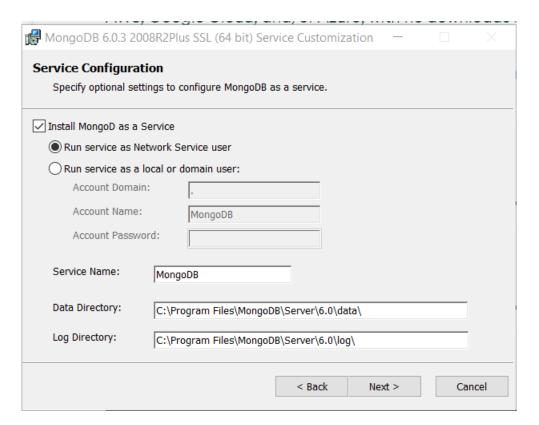
## Check the box to accept terms and Click next:



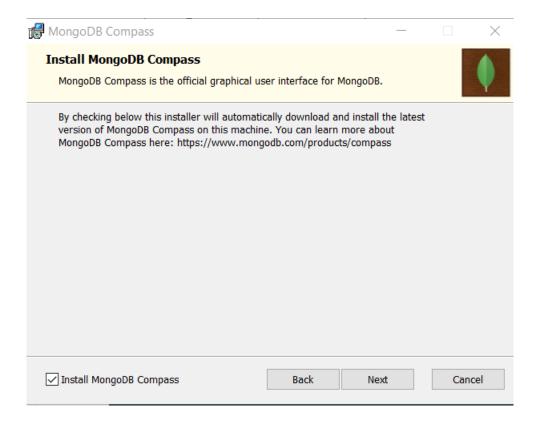
#### Choose complete and Click next:



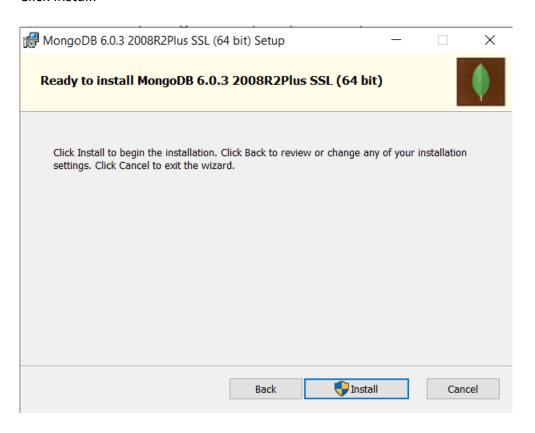
## Click next (don't change anything):



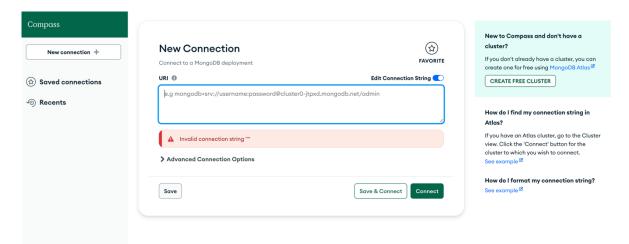
#### Click next:



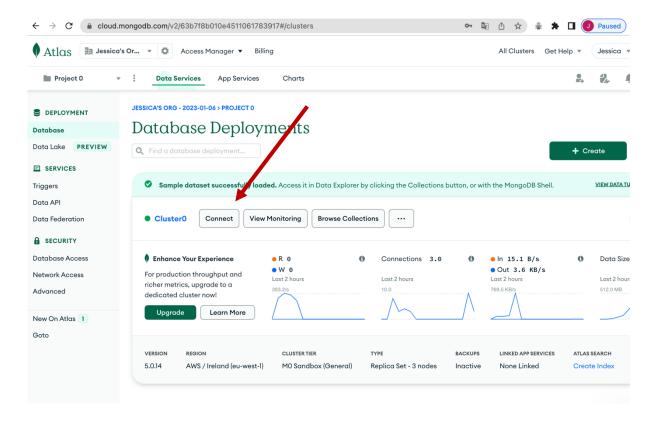
## Click Install:



Clcik on the MongoDB app to open the software, you should see the following window:

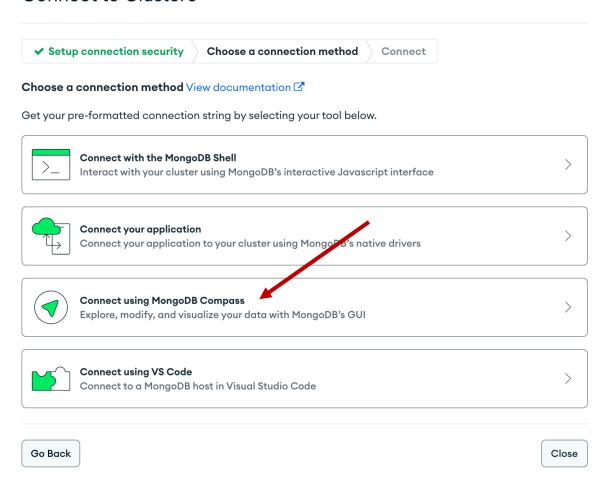


To create a new connection to our previous cluster, we need to go back to the **MongoDB Altas website** where you should stull be loged in and go to connexion, click on **Connect**:



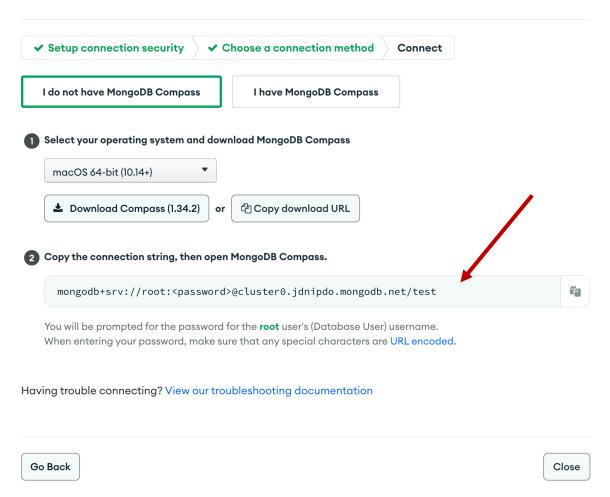
You should get the following window:

## Connect to Cluster0



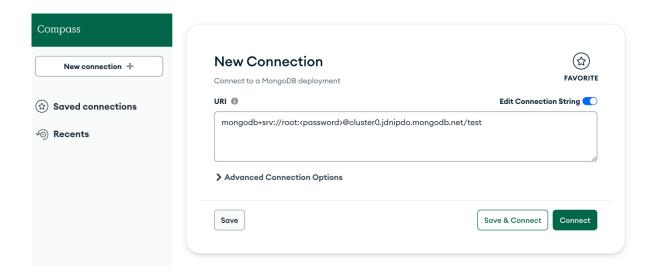
Click on Connect using MongoDB Compass.

## Connect to Cluster0



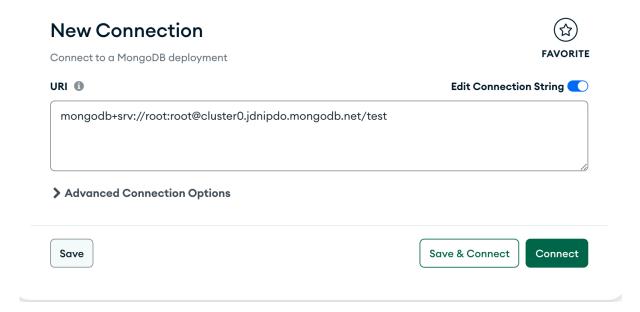
Copy the following string above shown by the red arrow. This is a connexion string to the database server we will be using in MongoDB Compass.

**Go back to MongoDB Compass** software you installed on your pc and paste the link your copiued from MongoDB Atlas:



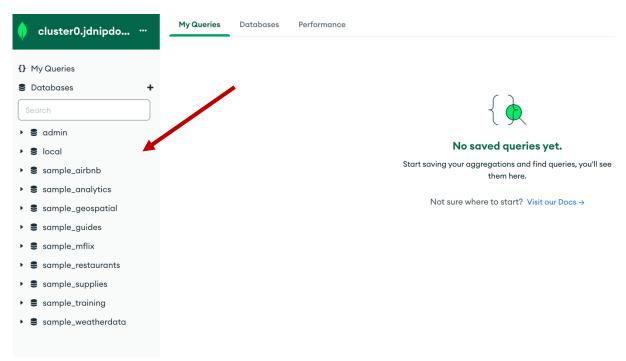
Now you need to change the password <password> in the string by the one you created earlier wich was: root.

Do the following modification on the string:



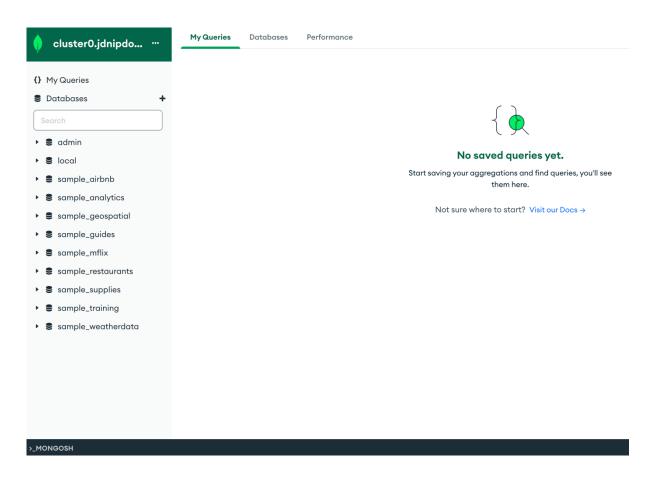
Click on Connect.

After a successful connection, you should see the databases from your cluster appearing in MongoDB compass on the left side:

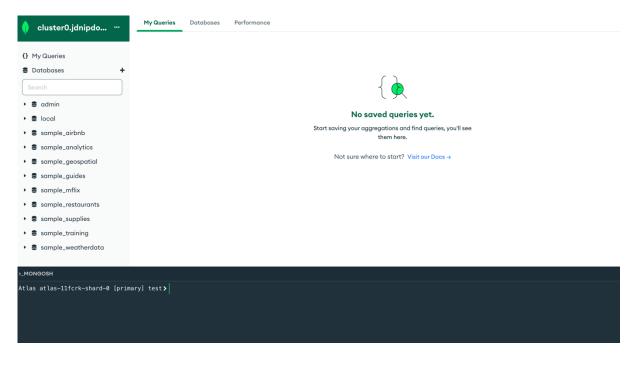


Click on some sample databases to see the data it contains. Date will be in the format of JSON, will talk about this format during the session.

Now we can use MongoDB SH (shell) from MongoDB Compass to do data fetching and modification to any datatbases there:



MongoDB SH is at the very borttom of the MongoDB Compass, you will need to drag up the window to reveal it more such as:

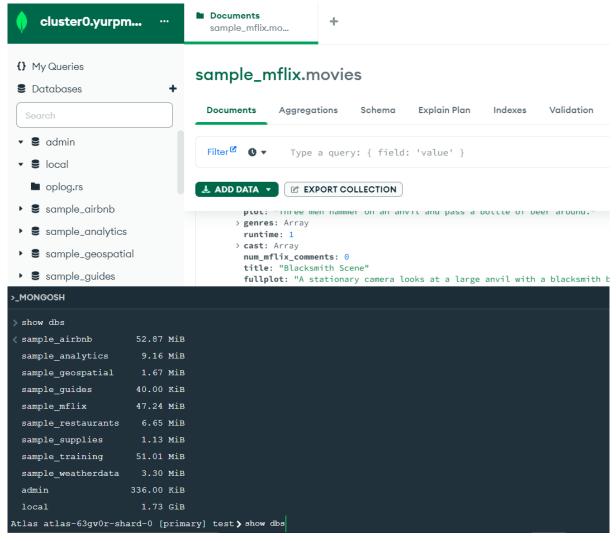


You should see a bigger black screen at the bottom now.

In MongoDB SH, write the command: show dbs

#### Hit enter.

You should see the list of databases:



Write the command: use sample\_mflix Hit enter.

Here you are telling Mongo Shell to use the database mflix that contains different tables with data regarding movies:

```
>_MONGOSH
 sample_analytics
                    9.16 MiB
 sample_geospatial 1.67 MiB
 sample_guides 40.00 KiB
 sample_mflix
                   47.24 MiB
                    6.65 MiB
 sample_restaurants
 sample_supplies
                    1.13 MiB
 sample_training 51.01 MiB
 sample_weatherdata 3.30 MiB
 admin
                 336.00 KiB
 local
                    1.73 GiB
> use sample mflix
 'switched to db sample mflix'
Atlas atlas-63gv0r-shard-0 [primary] sample_mflix>
```

We will do data feching during out next session using the MongoDB shell.