Using Atlas
&
Compass as an interface to Mongodb Atlas

Last amended: 25th Nov, 2025
Myfolder: Ubuntu_kibana VM=>/home/ashok/Documents/mongodb//mongodb atlas
My folder: D:\Documents\OneDrive\Documents\mongodb
Github rpo: Databases

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Notes:

1. For Mongodb Atlas , ALWAYS use Google Chrome and NOT Firefox.
2. Complete Help of MongoDB Atlas Charts is available at this link. See **the left panel** of this help.
3. Data can be imported into Atlas using Mongodb Compass. Compass is installable on Windows

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1. Install MongoDB Compass on Windows or Mac, as the case maybe. Download from this link and install. Installation is straight forward.

2. See this YouTube video for working in Compass.

3. When Compass starts, an Add New Connection button appears for it to be connected to MongoDB server. We will connect it to MongoDB atlas.

4. In Chrome, reach MongoDB Atlas and log into it using a Google Account.

5. Go to this link to register yourself with MongoDB Atlas and follow the simple steps

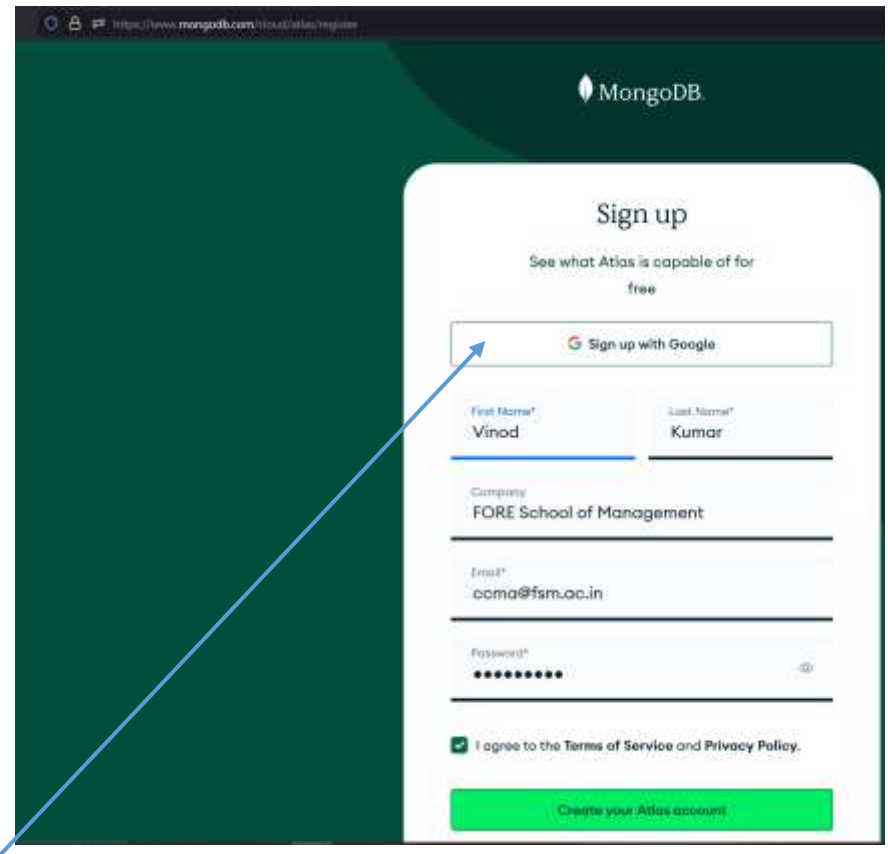

*Figure 1: Sign in with your google account OR Write your name. You must write **FORE School of Management**. Specify your emailid and password.*

Figure 2: If you did not login with Google Account, then, verify your email. After verification, you are taken to login screen.

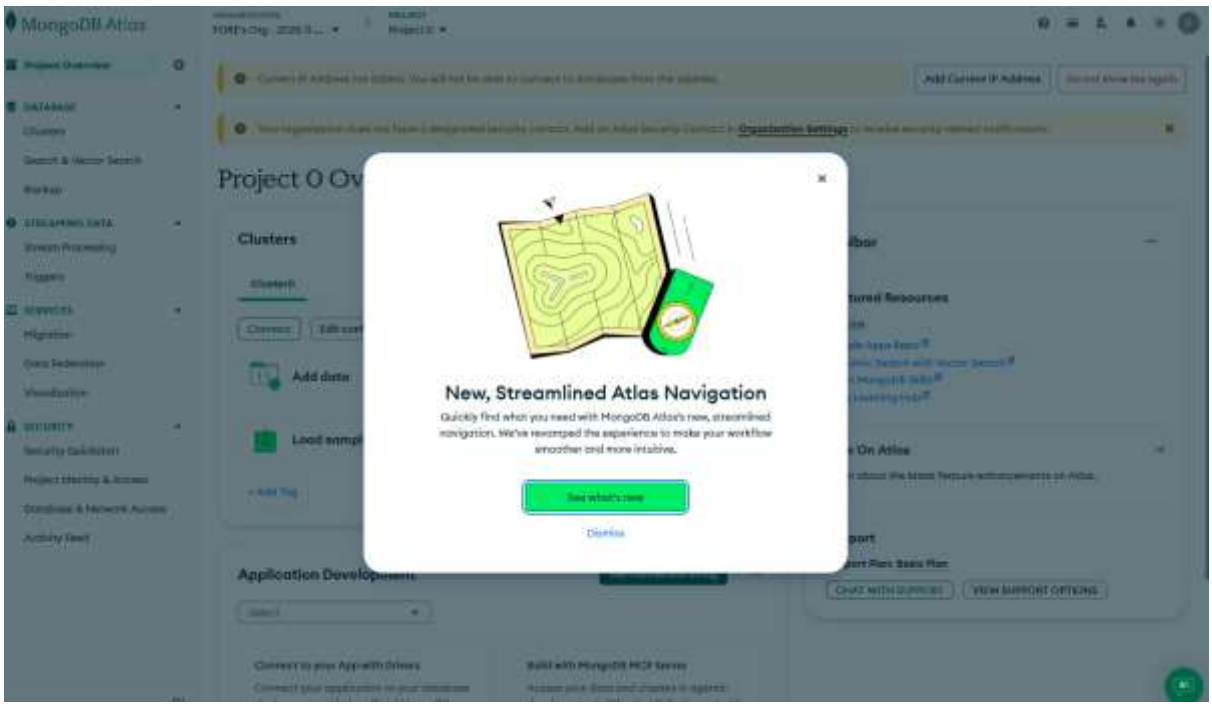

Figure 3: Click Dismiss

*Figure 4: Again, if you did not login with Google account, do not enable Multi-factor authentication. click '**Remind me later**'*

6. Cluster creation

We need to create a cluster first. By default, cluster is named as Cluster0. Do not try to change the name.

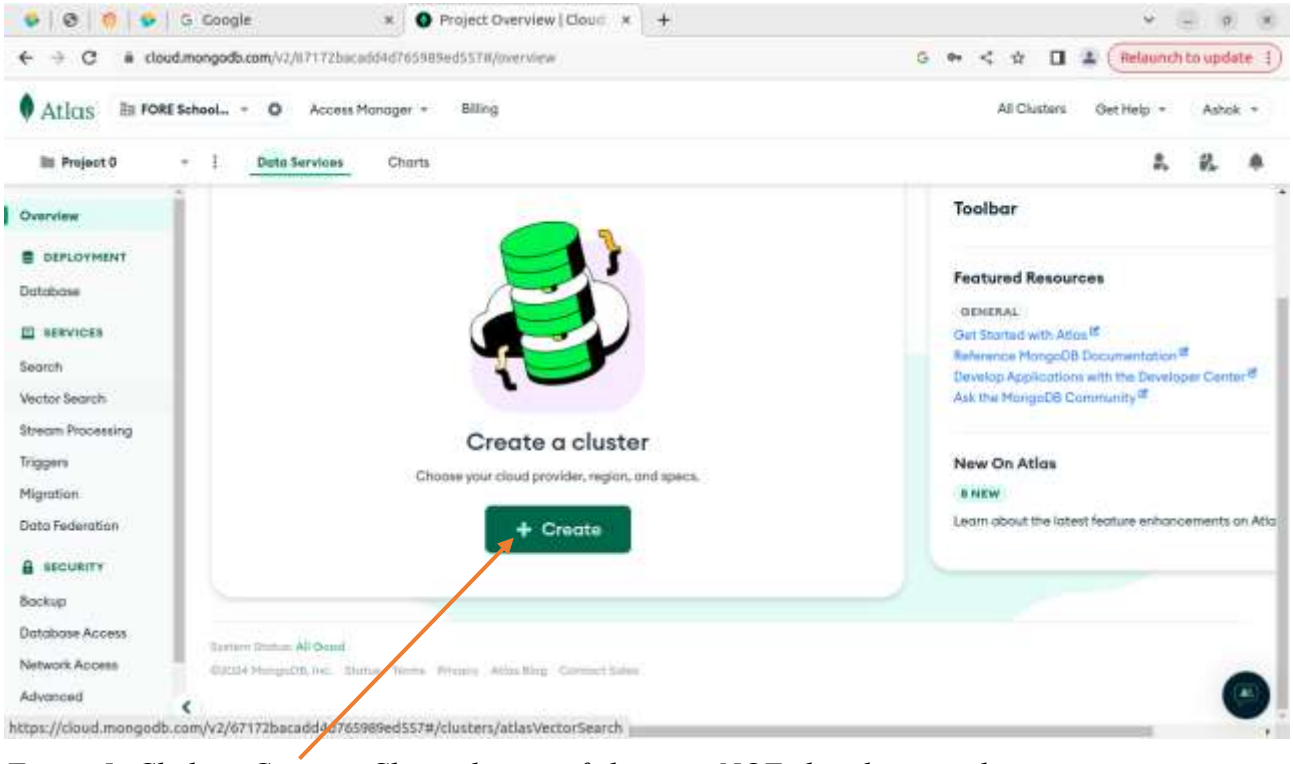

Figure 5: Click on Create a Cluster button, if cluster is NOT already created.

7. Cluster Deployment

For cluster deployment, there are a number of options. We will select the last one, i.e. the free option. Under this option, we can have a max data of 500mb.

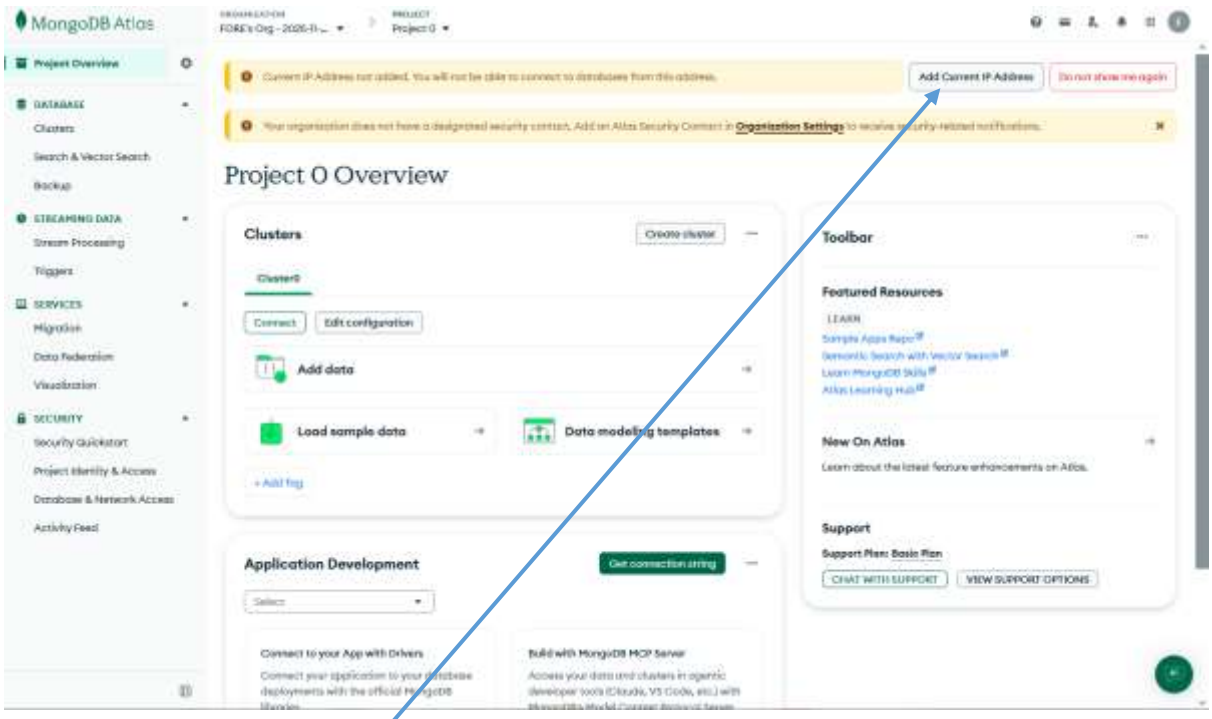

*Figure 6: Click the button **'Add current IP address'** so that you can work from your **current location. If you intend to work from another location, that IP Address will also have to be added.***

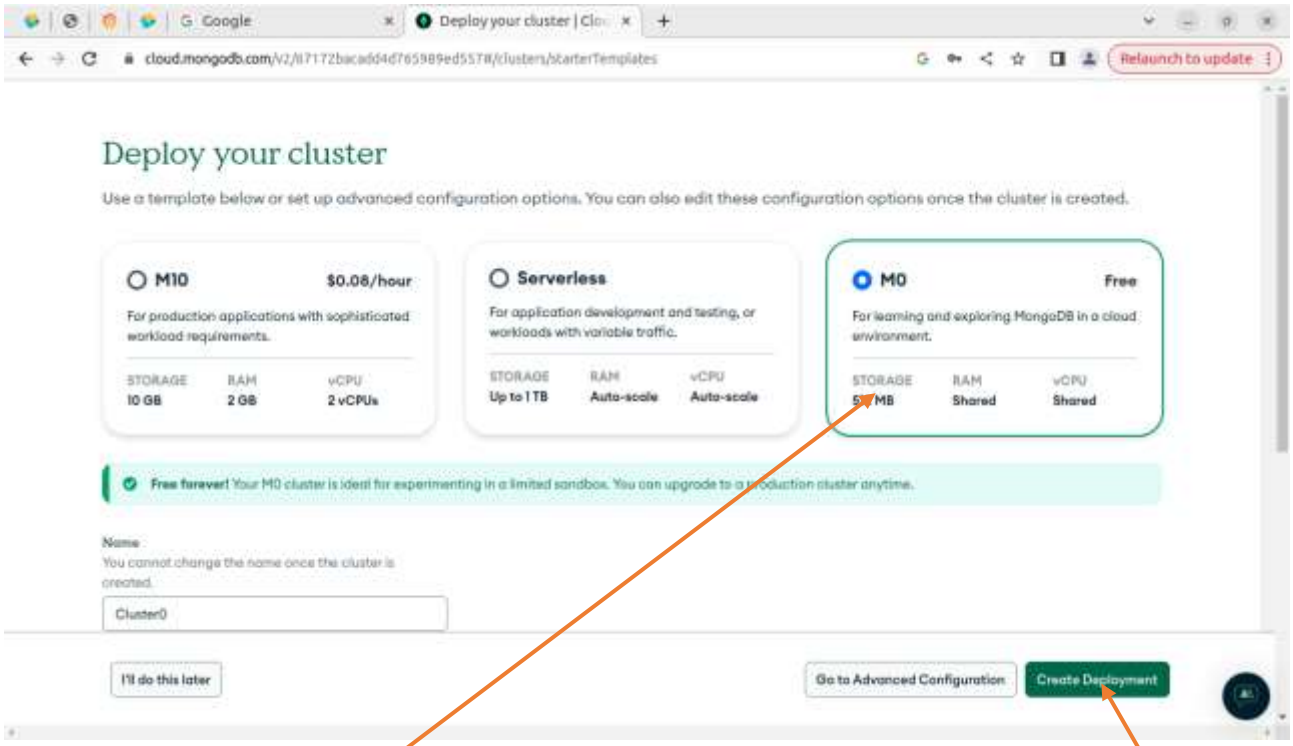

Figure 7: Select the free option M0 and accept all other default options. Click 'Create Deployment' button

8. Database User Creation

Database user is different from the user with which you logged into Atlas. A database user creation and allocating him proper role are a must. Keep your user password simple to remember; Recommended password: ashok. This user will have *atlasAdmin* powers. You will be able to drop a database in *Compass*, only if you have *atlasAdmin* role.

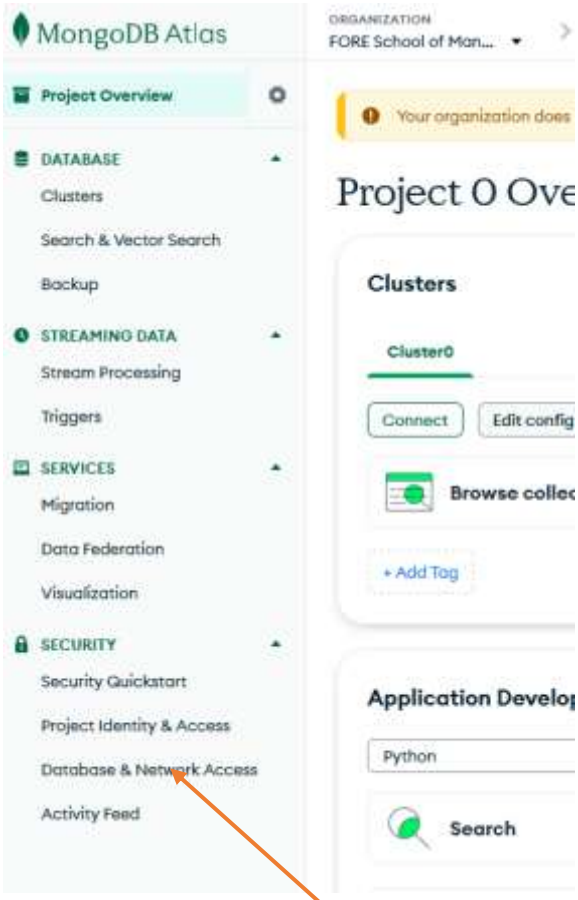

*Figure 8: On the left panel click **Database and Network Access**.*

Keep carefully the user and password.

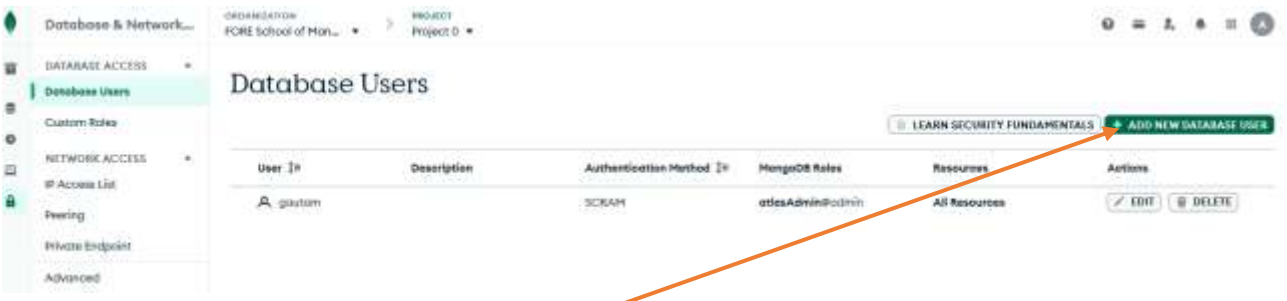

*Figure 9: Click on **Add a New Database User**. You are asked to create a database user. Do it. Keep the password simple. First click on Create Database user. And then click on Choose a connection method. This user has **atlasAdmin** role,*

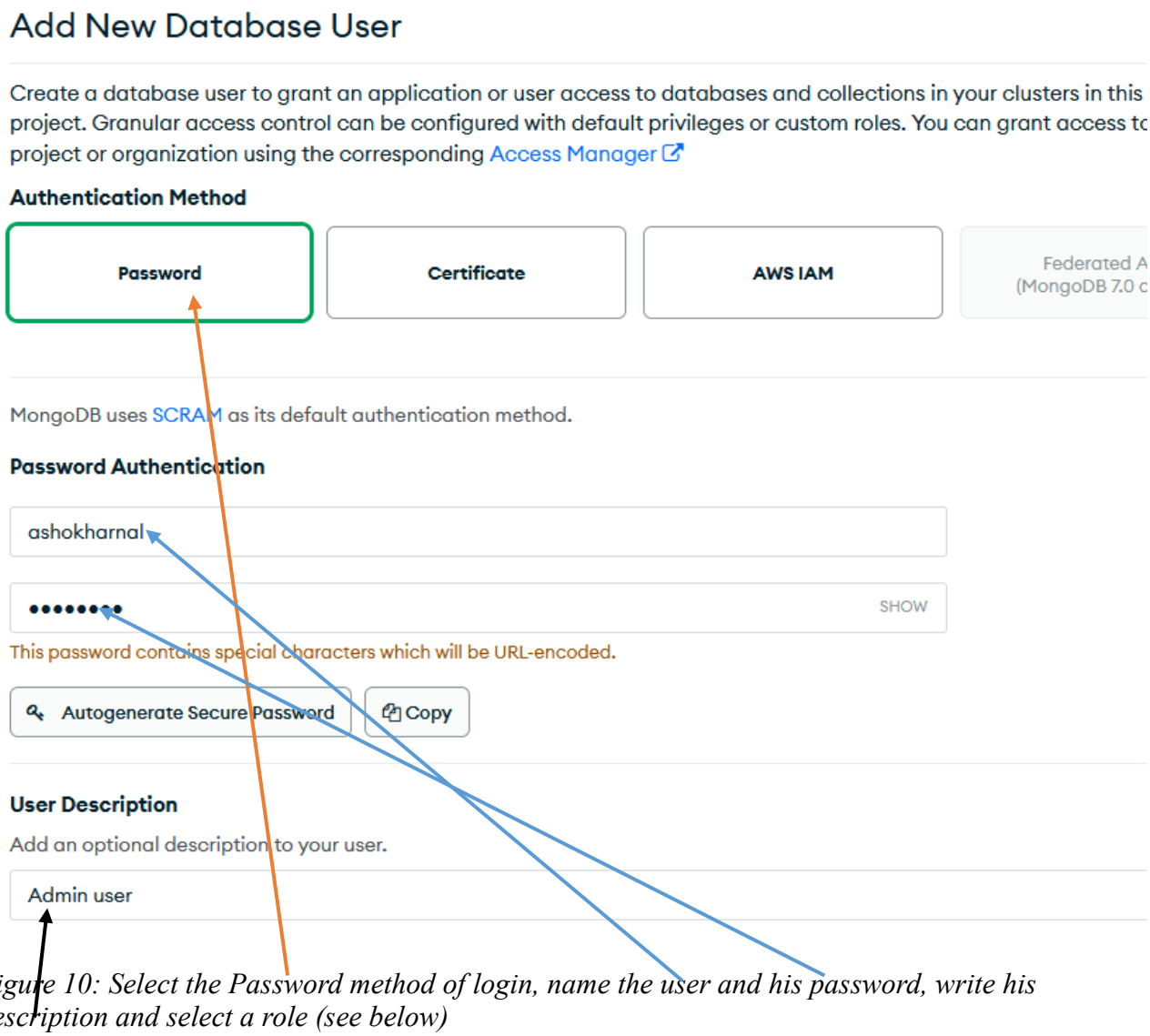

Figure 10: Select the Password method of login, name the user and his password, write his description and select a role (see below)

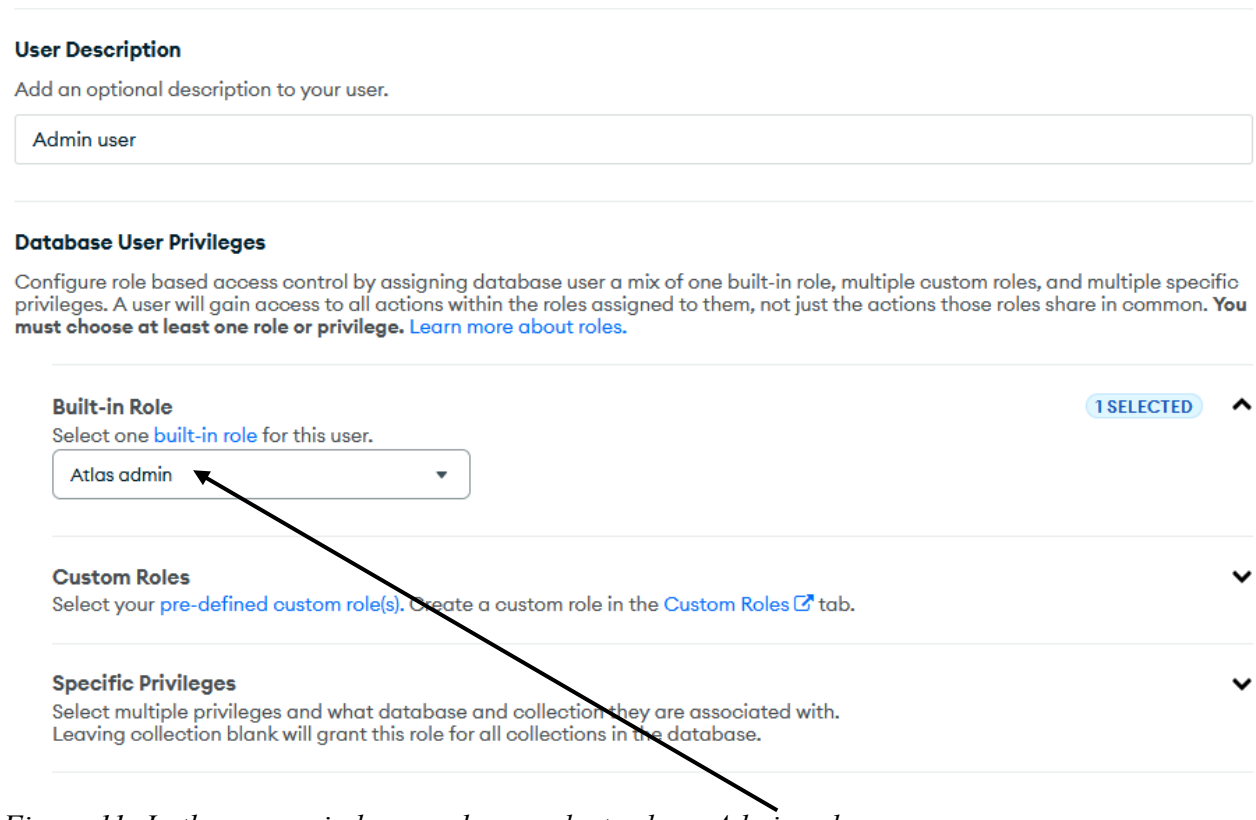

Figure 11: In the same window as above, select role as Admin role

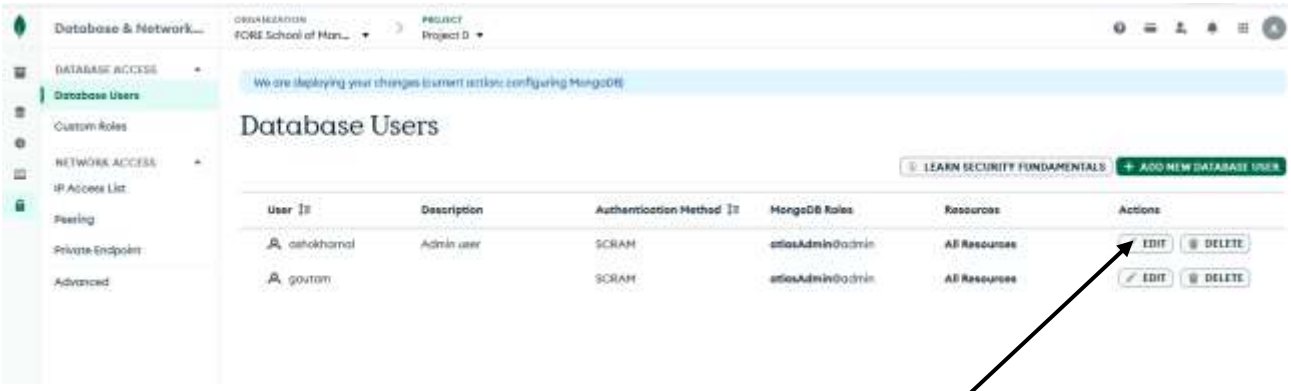

Figure 12: Two users are here with atlasAdmin roles/. You can click on Edit to modify roles

9. IP access list

Figure 13: You can work in Atlas only from these IPs. If you change your working place, Add that IP also. This done, click on Clusters on the left panel to reach below.

10. Back to our Cluster

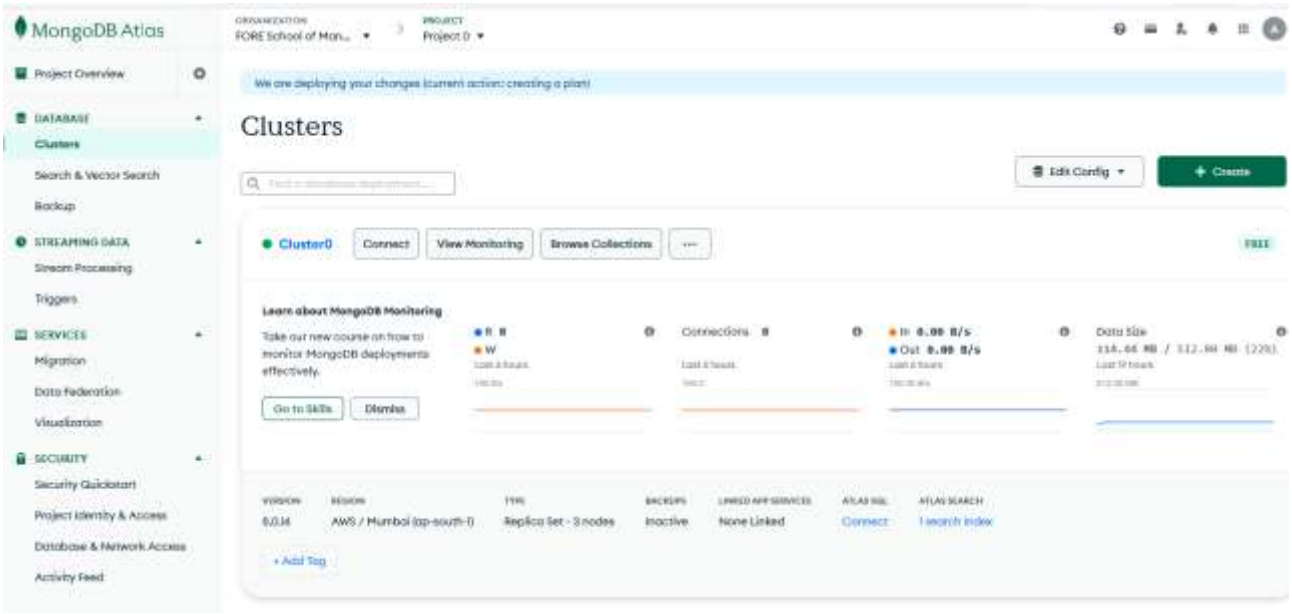

Figure 14: Click on Clusters on the left panel to reach here. Then click Connect button.

11. Get Connection string for Compass

Compass provides an excellent interface to many tasks in Atlas. We need to connect our Compass with Atlas. First, ensure that Compass is started. Then in Atlas, proceed as below:

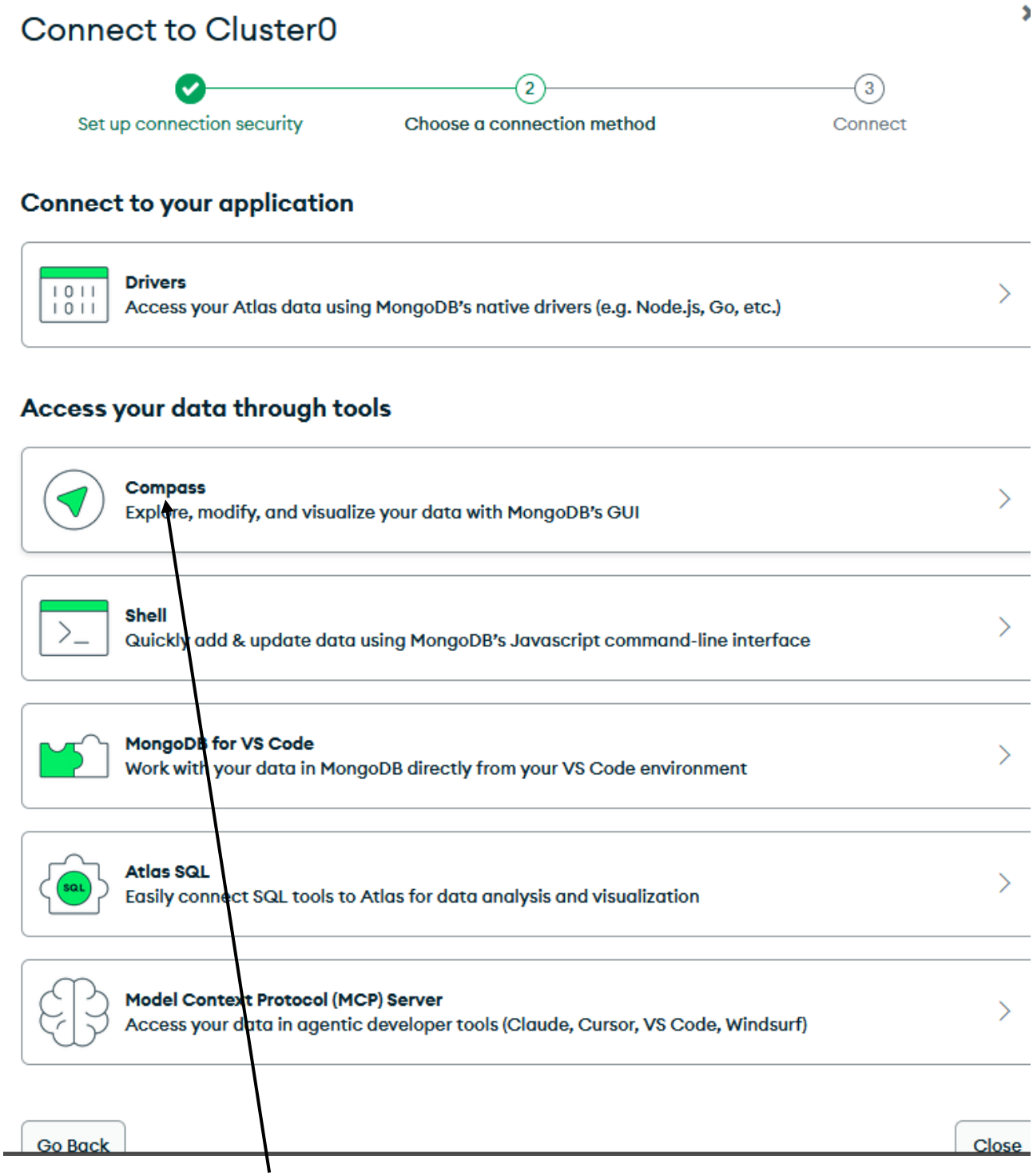

Figure 15: Click on Compass

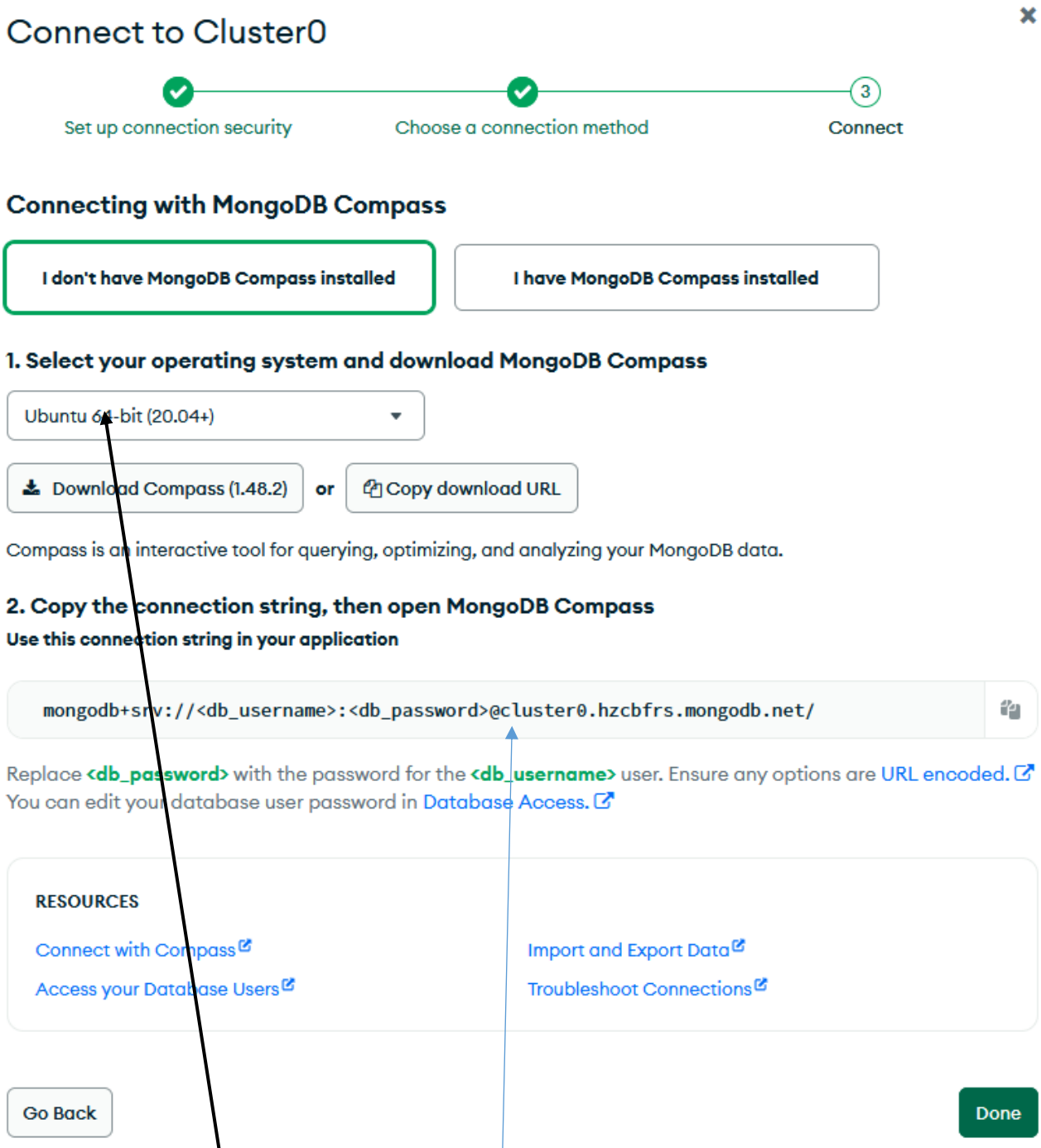

Figure 16: Select your OS and copy the connection string to notepad. You have to fill in db_username and itspassword.

Here is the modified connection string:

Copied one

```
mongodb+srv://<db_username>:<db_password>@cluster0.hzcbfrs.mongodb.net/
```

Modified one

```
mongodb+srv://ashokharnal:Gautam*8@cluster0.hzcbfrs.mongodb.net/
```

12. Connect compass and create Database

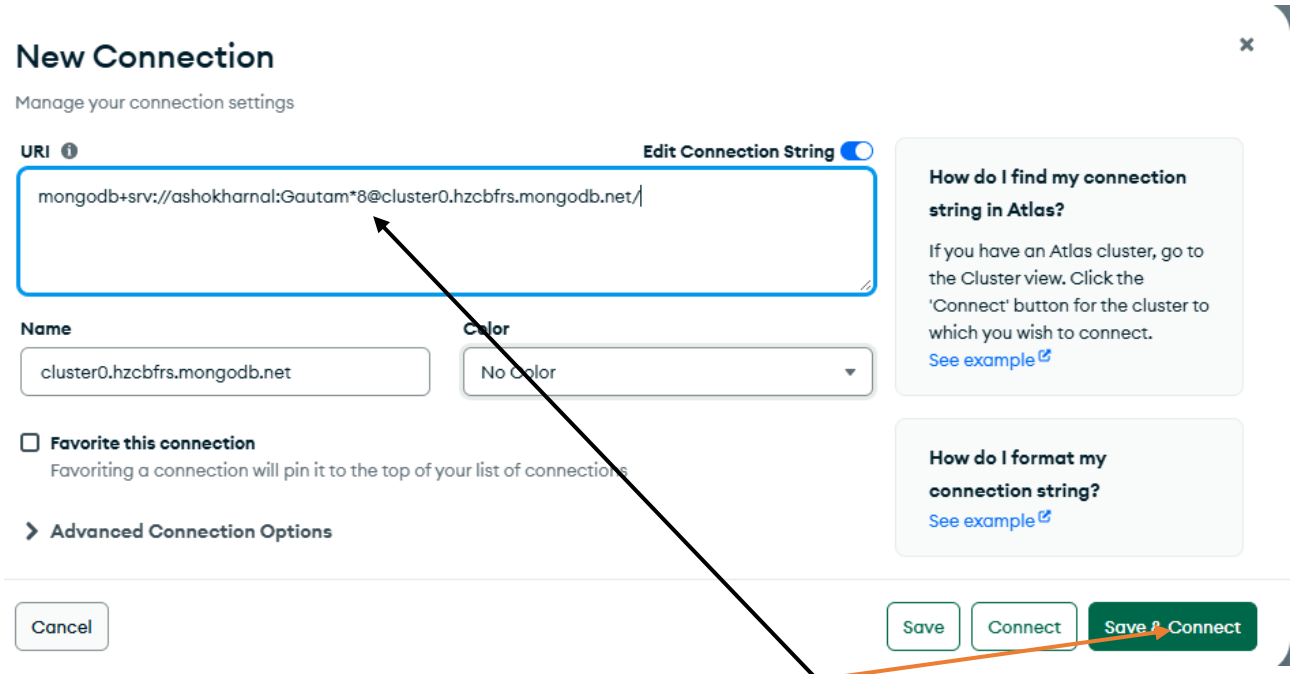

Figure 17: In Compass, click Add new connection and fill in the connection URL (overwrite any other connection url). Click Save and Connect

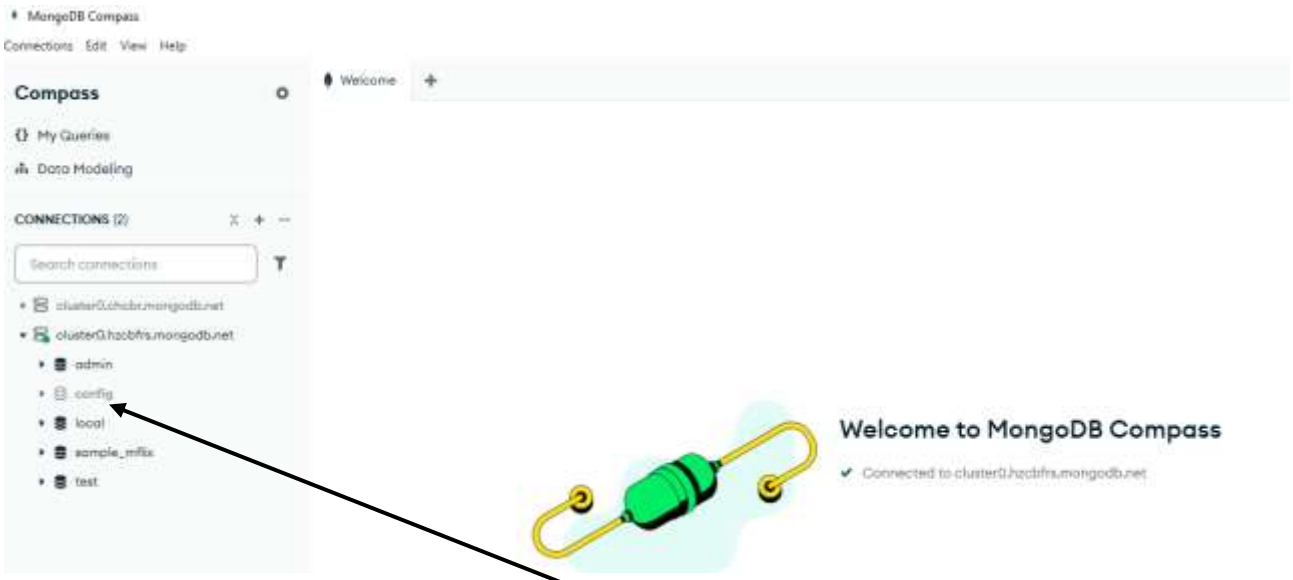

Figure 18: After connection, we get some new objects coming from Atlas.

Figure 19: To create a database and within it a collection, click on this + sign against the connection

13. Create Database

A database in MongoDB has a number of collections. Collections are akin to tables in SQL databases.

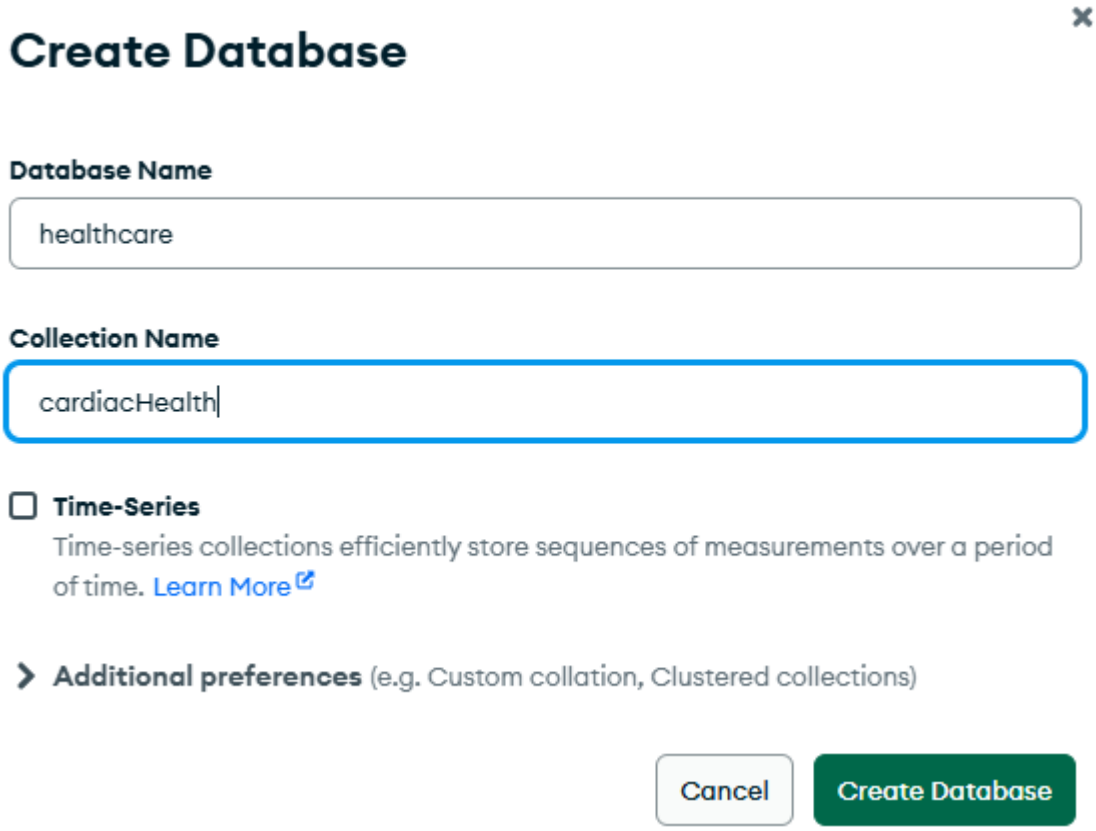

Figure 20: Name your database and collection and click Create Database button.

14. Importing data into Collection

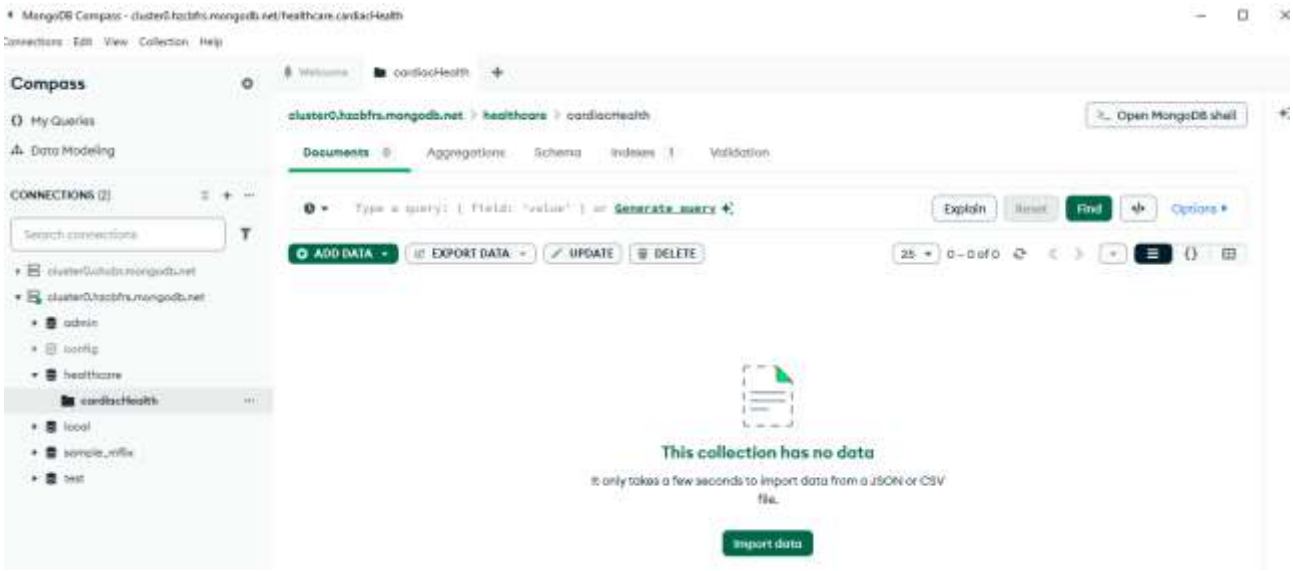

Figure 21: Click Import Data to import any csv file or JSON file in the Collection cardiaHealth.

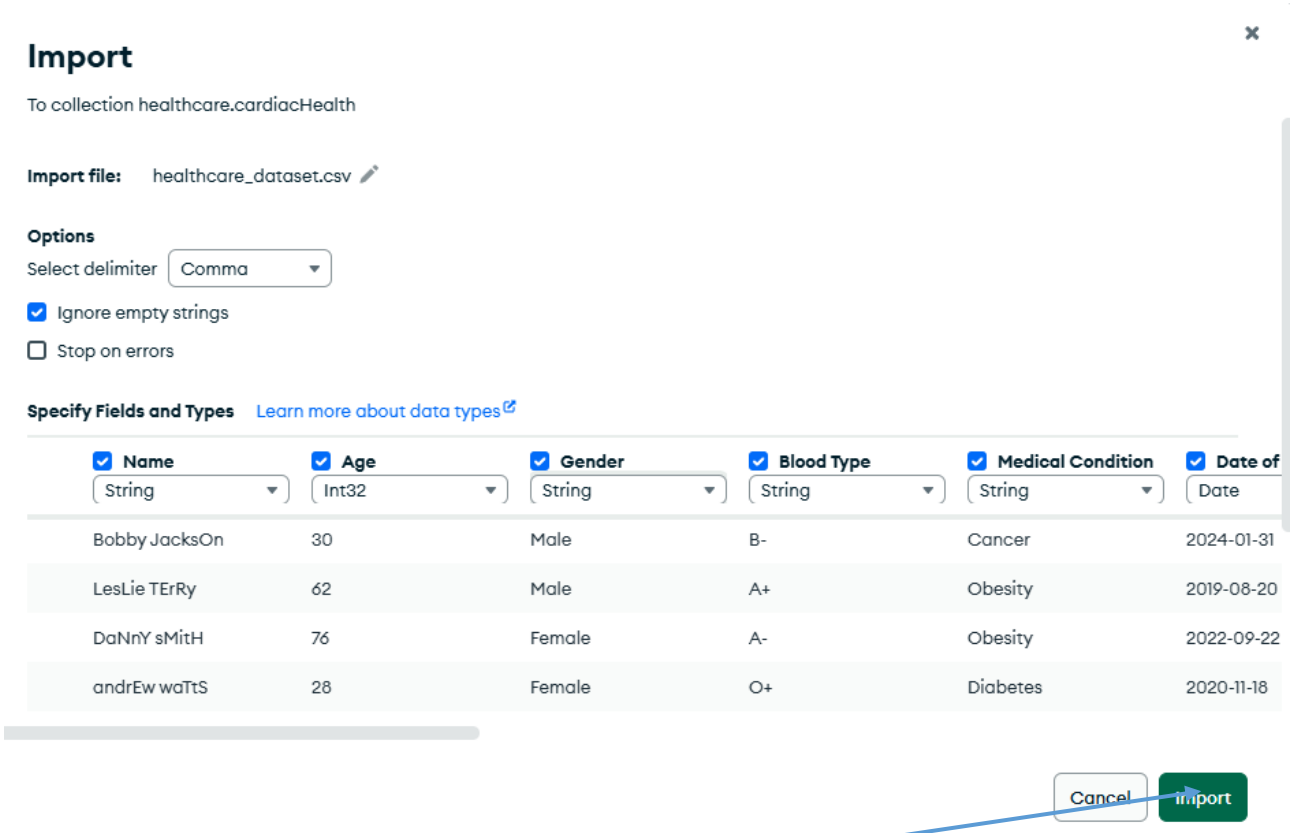

Figure 22: Status after importing. Click again on Import button to commit/.

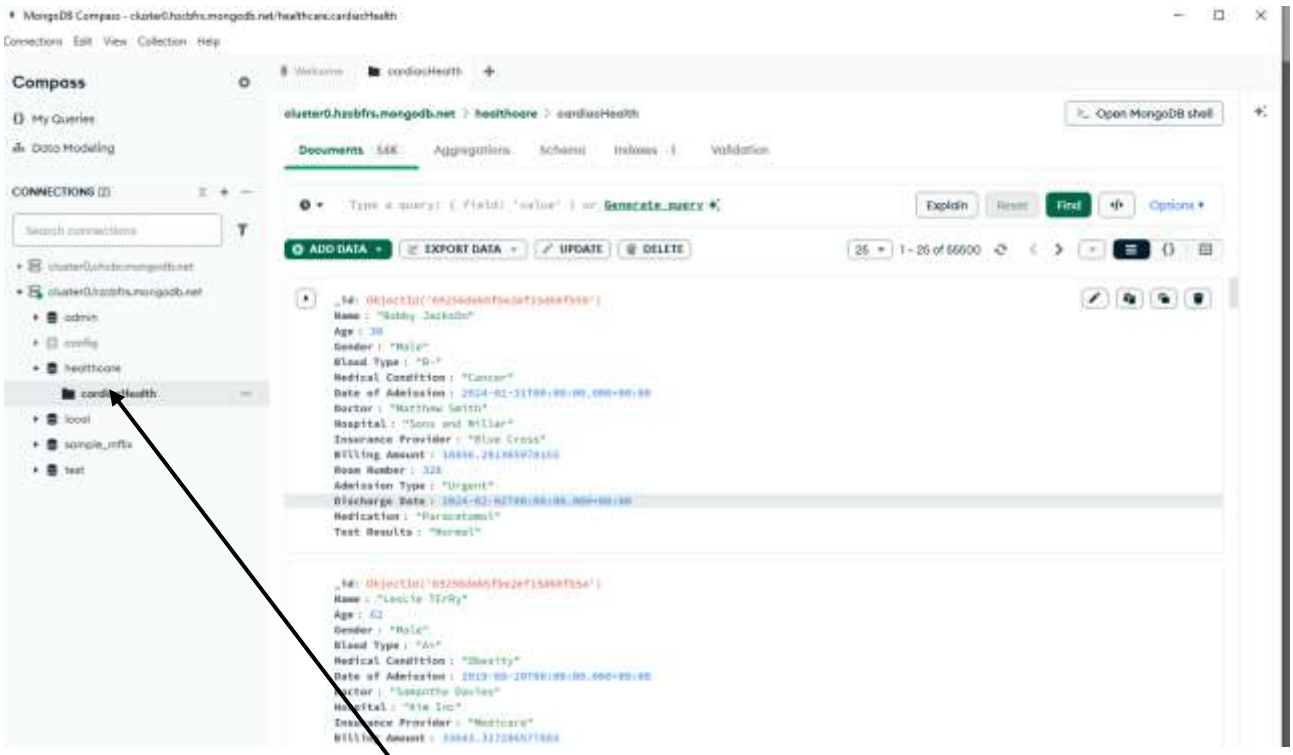

Figure 23: Our data in the collection.

15. Back in Atlas

Back in Atlas, click on cluster0 within the Clusters.

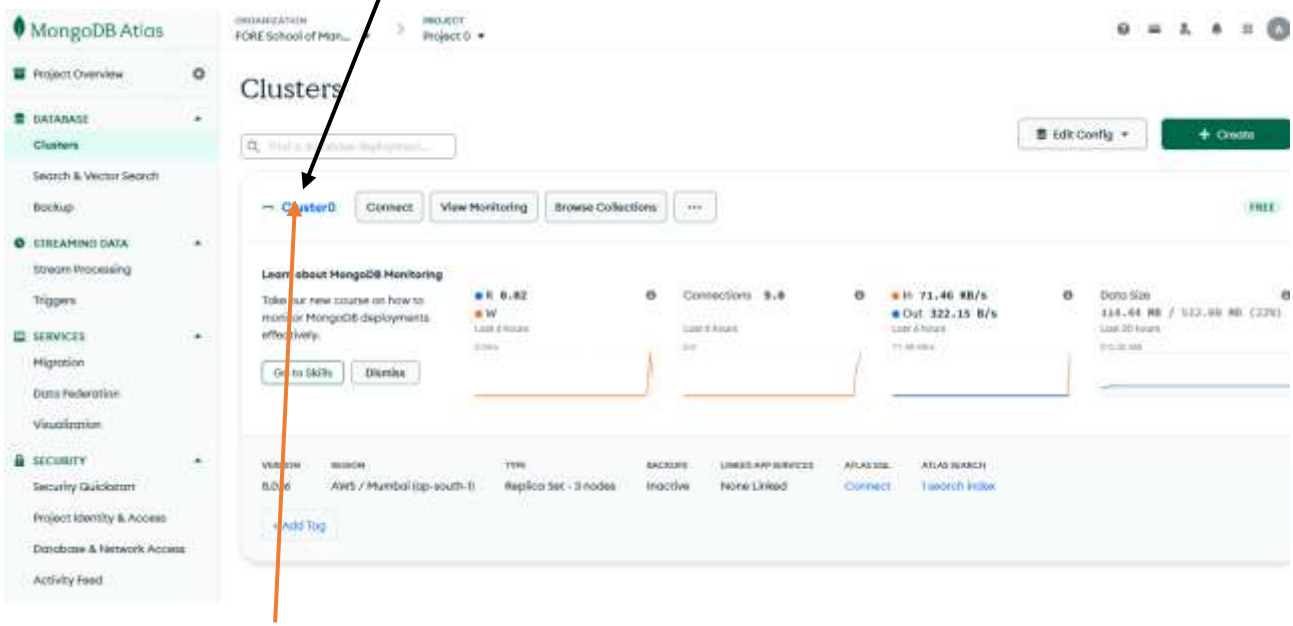

Figure 24: Click cluster0

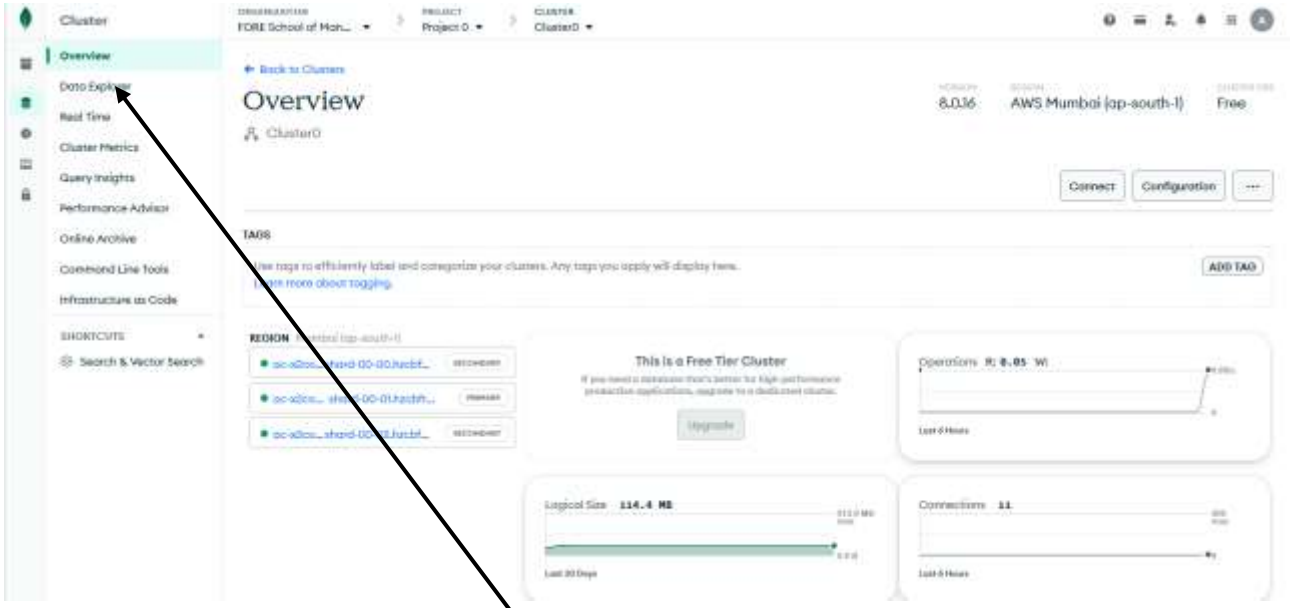

Figure 25: Cluster0 opens. Click Data Explorer to see data.

16. Data Visualization

To visualize data, click on Visualize your data button.

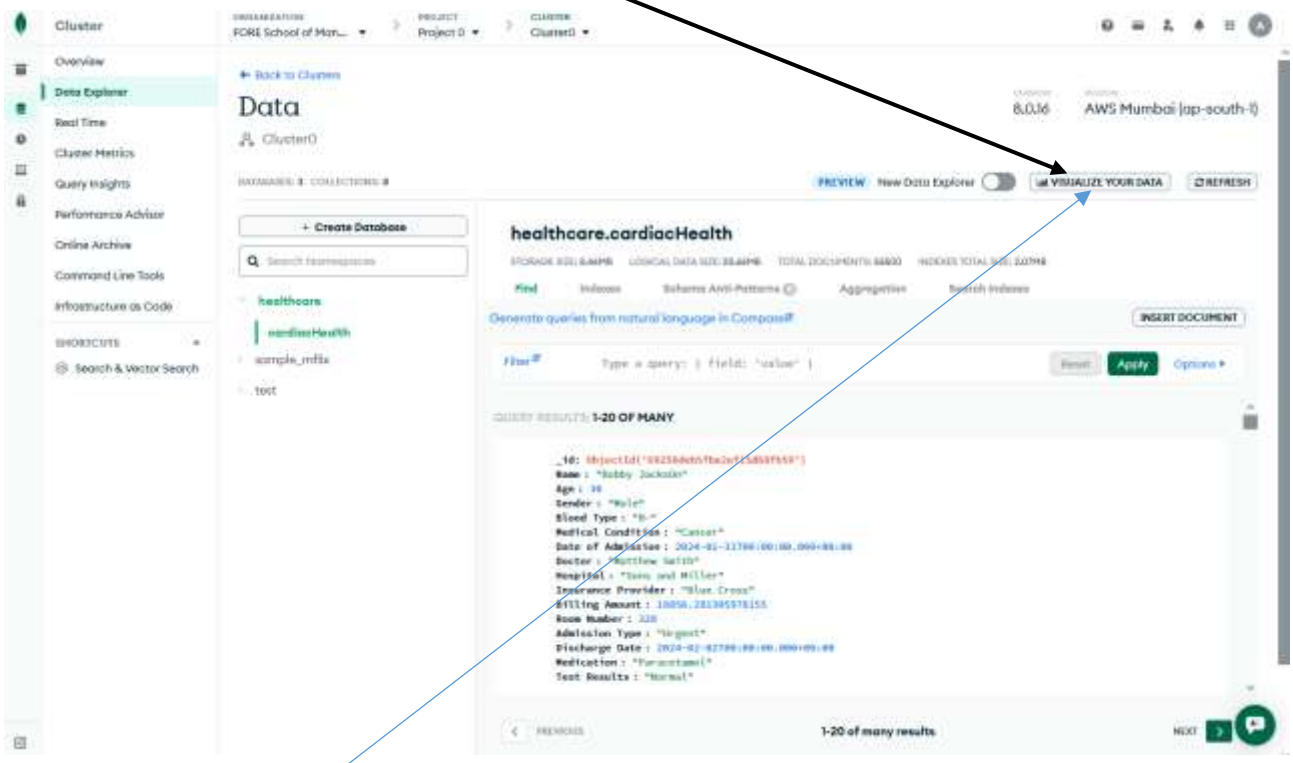

Figure 26: Click on Visualize your data

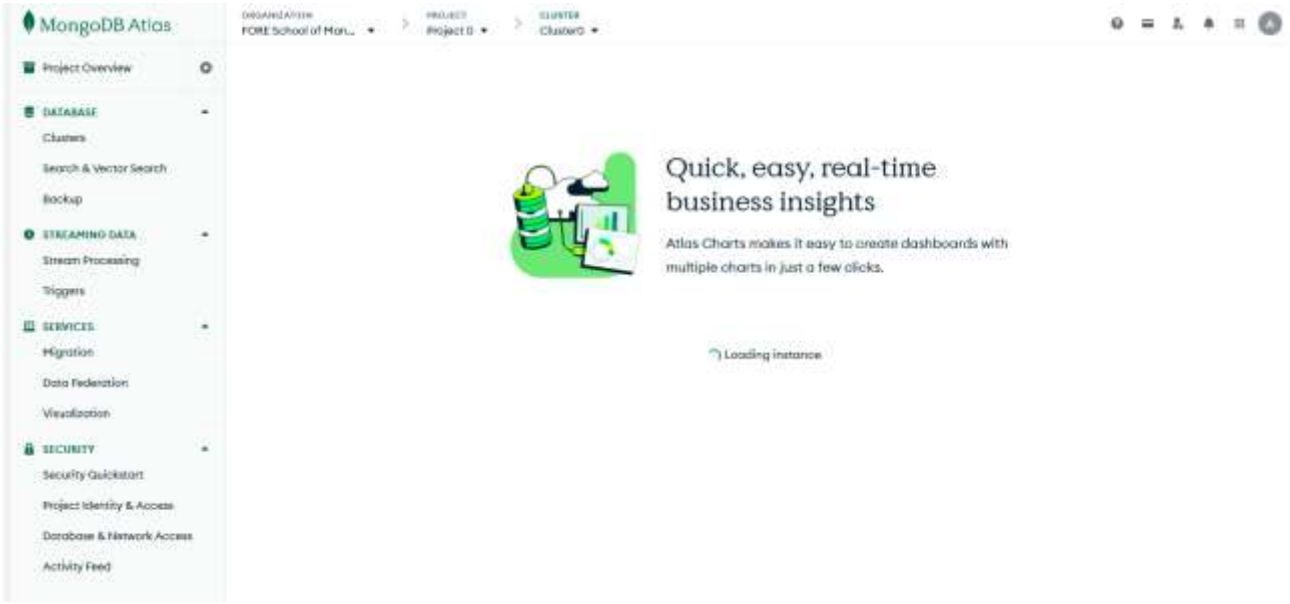

Figure 27: Visualization takes time to open as it first takes a sample of data and then only creates visualization.

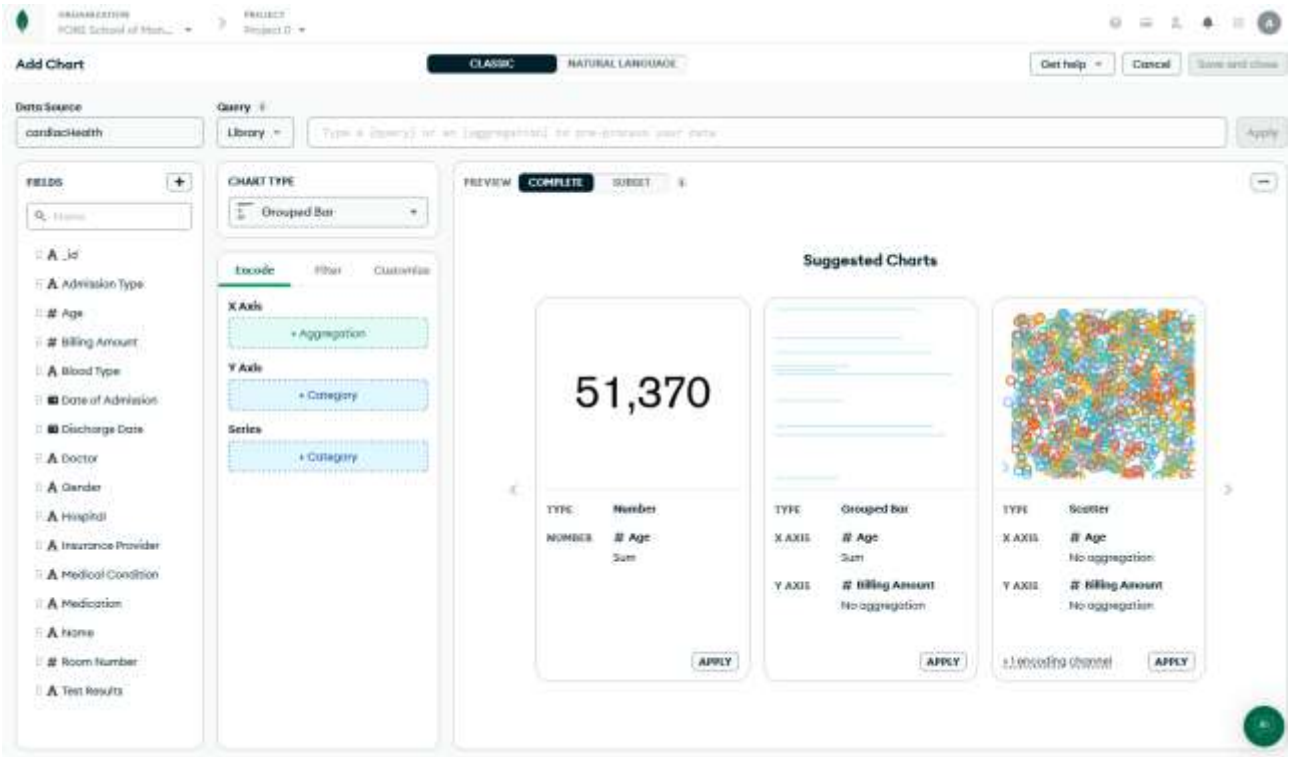

Figure 28: A sample visualization is created from a sample of cardiacHealth collection.

Solving Compass Atlas Connection String problems
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1. Check database user privileges under Data Access page
   Should be *'atlasAdmin'*
2. Check database user password or better change it

under Data Access page

3. Under Network Access tab, permit connections from all IPs.
4. Check your firewall/ant-virus software
5. Lastly, create a login account from a different email.

17. Project0 page

A cluster occurs under a Project. Our *Cluster0* occurs under *Project0*.

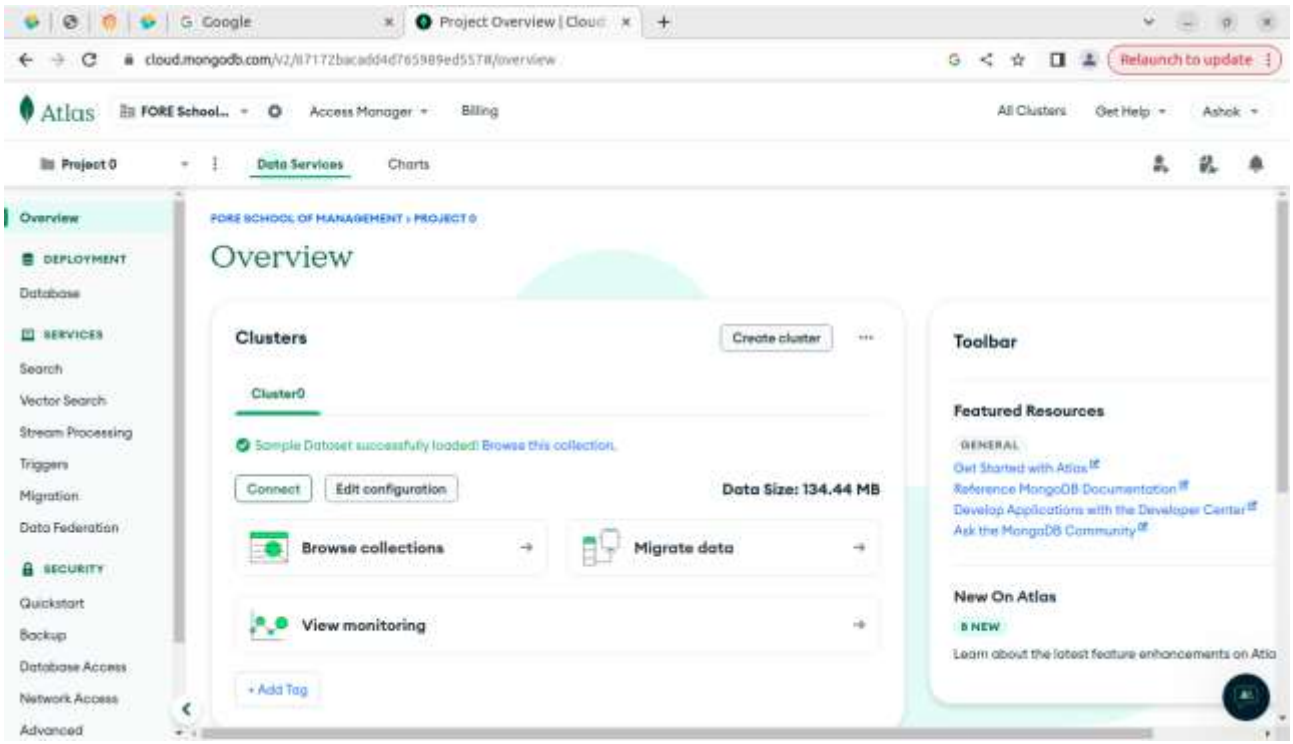

Figure 11: Cluster0 occurs under Project0. Note the total Data Size of database sample_mflix as 134mb

18. Drop database in Compass

You will be able to drop a database in Compass, only if you have *atlasAdmin* role. You can check your role by going to *Database Access* page in Atlas.

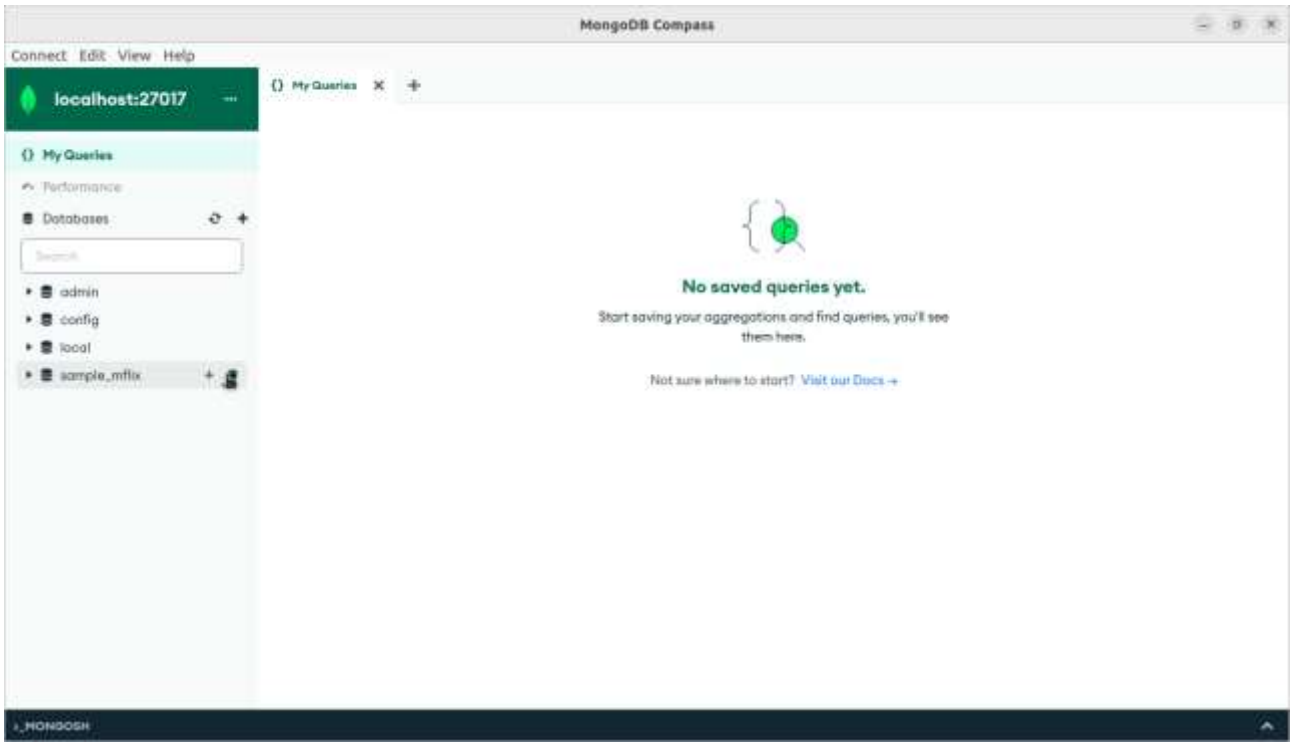

*Figure 12: Back in **compass**, let us drop this database by clicking on the trash icon against it.*

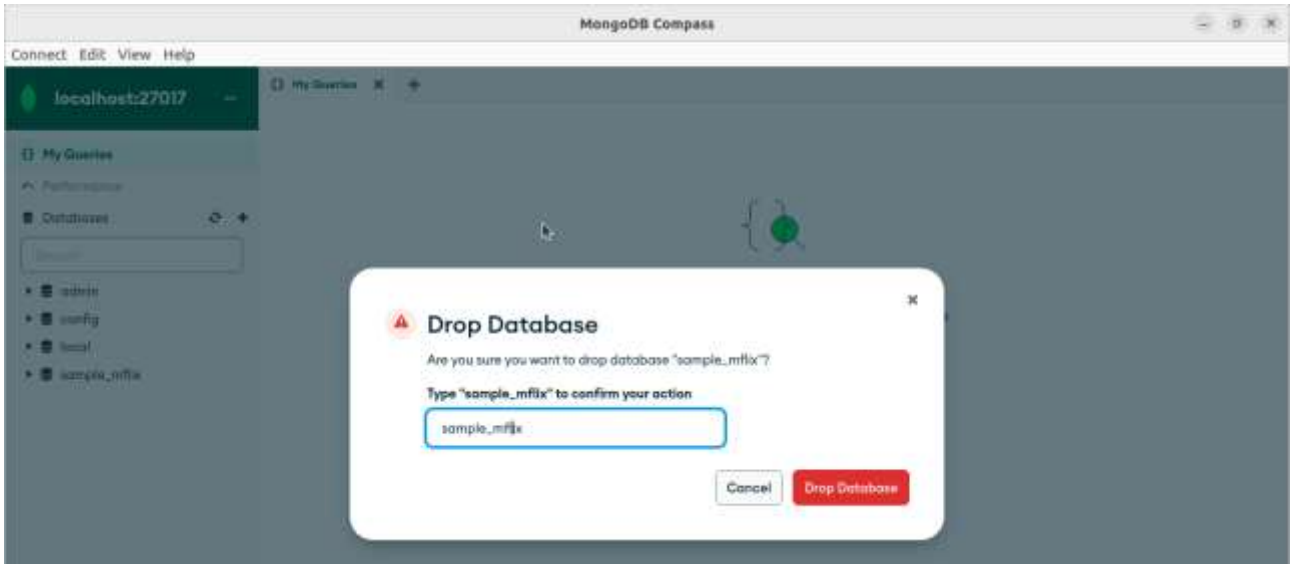

Figure 13: Click Drop database button

Back in Atlas, observe if database will be dropped?

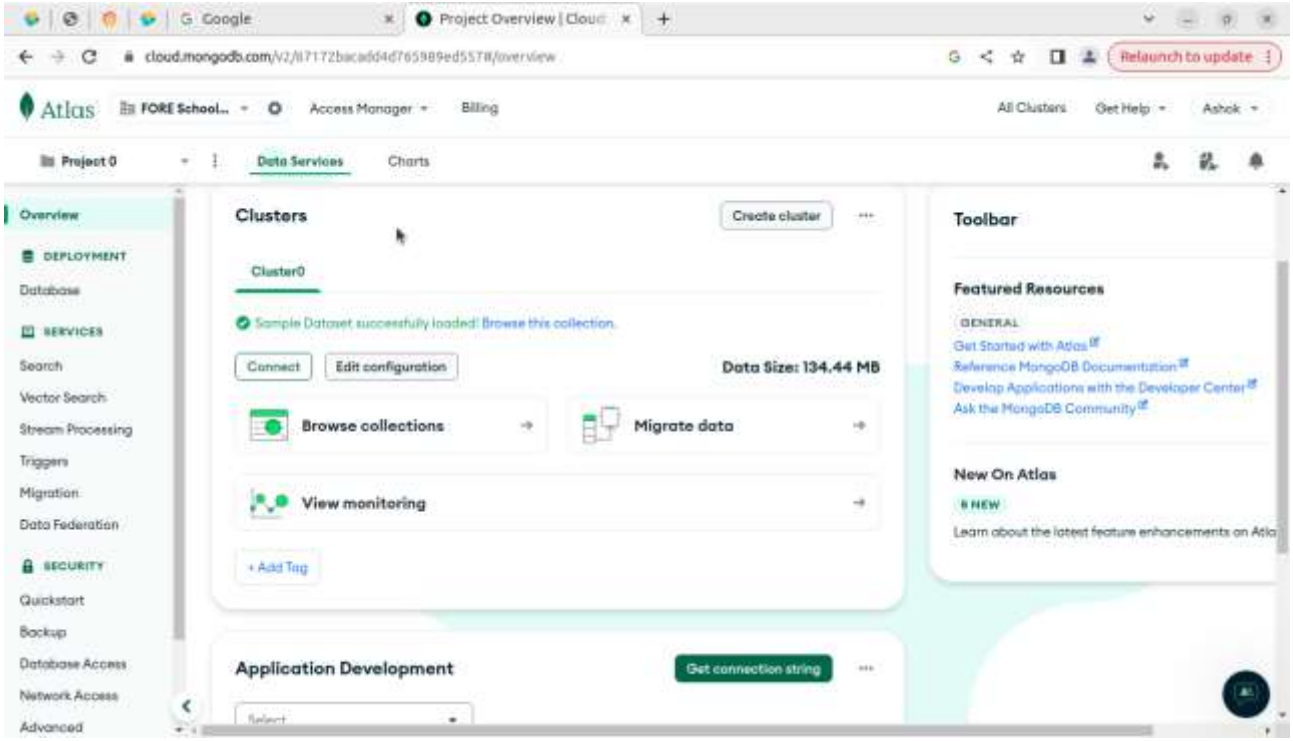

*Figure 14: In **Project0** page, Click on **Browse Collections** again.*

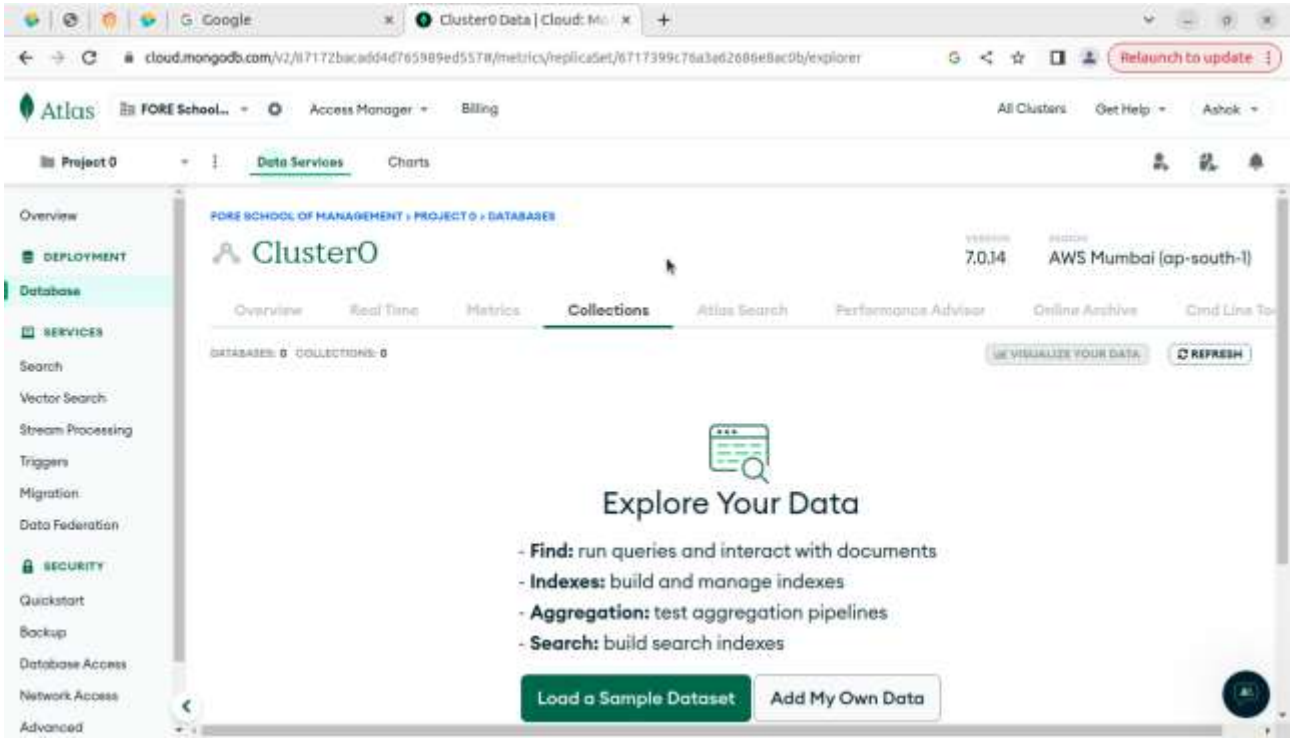

Figure 15: No database or collection is available in Cluster0.

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