

# Using Atlas & Compass as an interface to MongoDB Atlas

# Last amended: 25<sup>th</sup> Nov, 2025

# Myfolder: Ubuntu\_kibana VM=>/home/ashok/Documents/mongodb/mongodb atlas

# My folder: D:\Documents\OneDrive\Documents\mongodb

Github repo: [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.

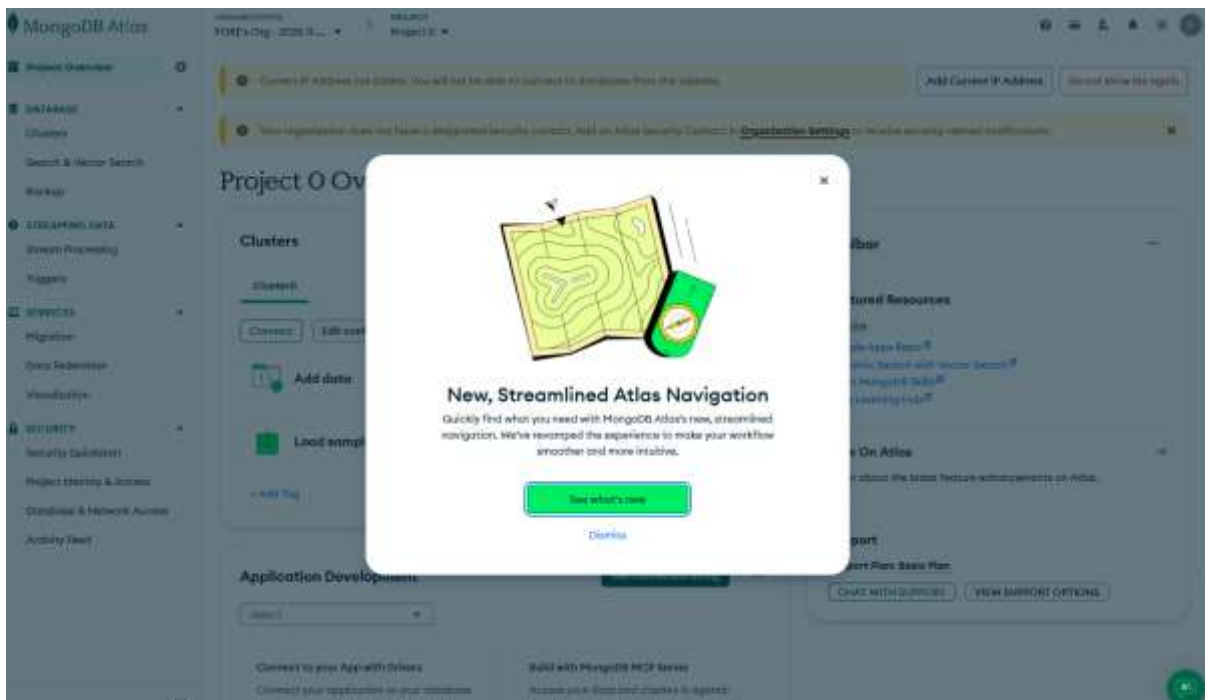


Figure 3: Click Dismiss

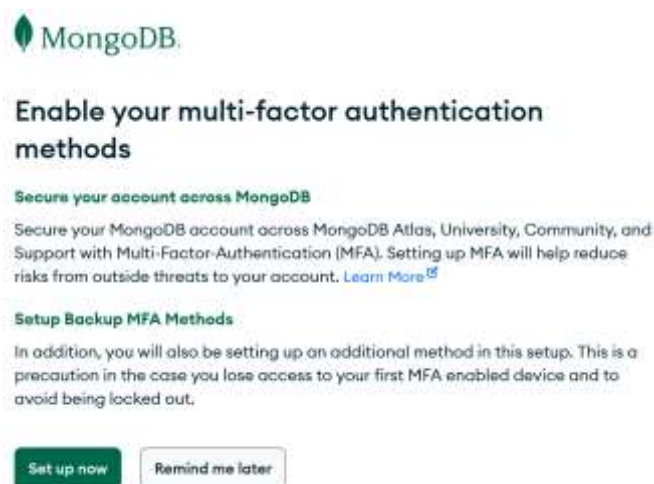


Figure 4: Again, if you did not login with Google account, do not enable Multi-factor authentication. click '**Remind me later**'

## 6. Cluster creation

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

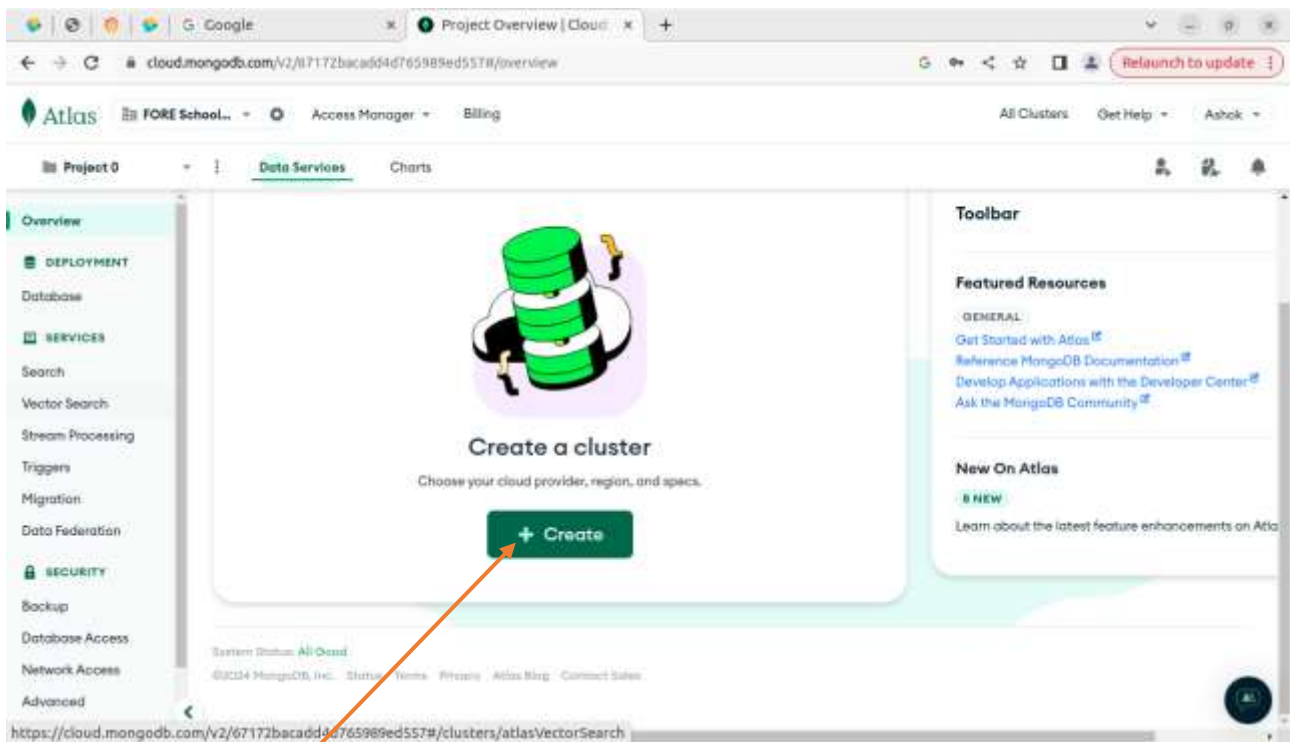


Figure 5: Click on Create a Cluster button, if cluster is NOT already created.

## 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.

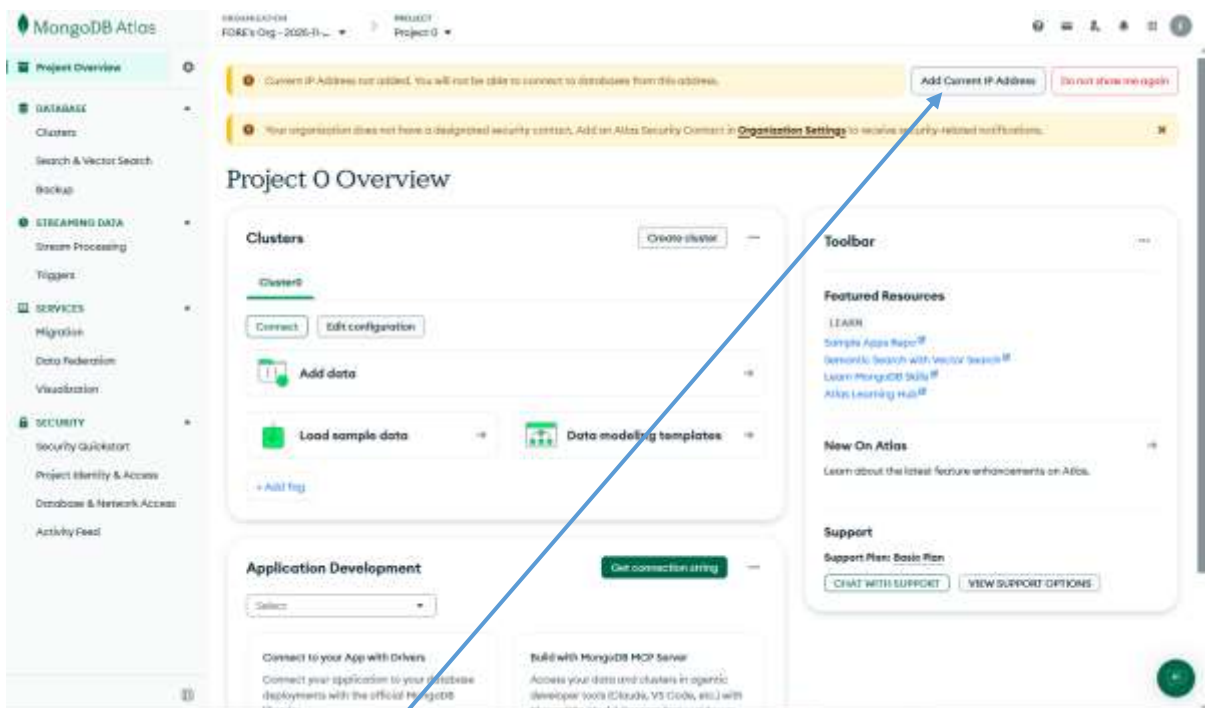
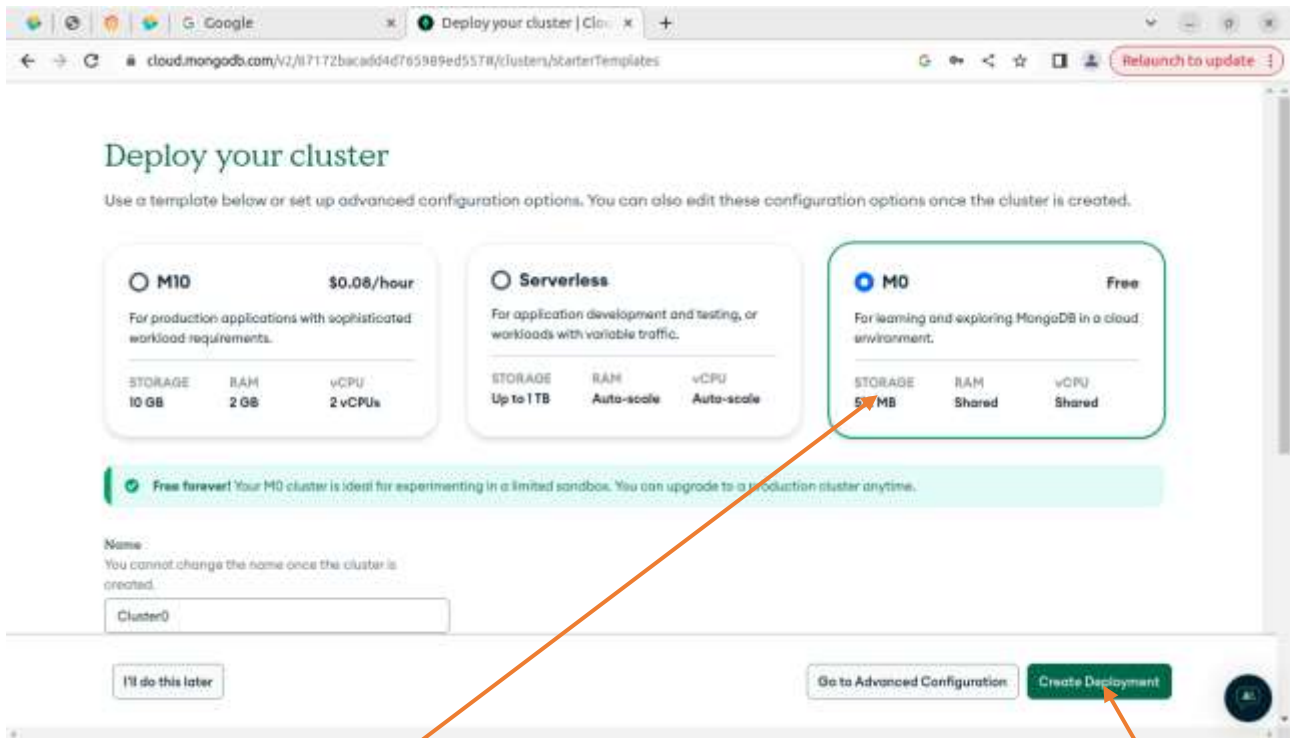


Figure 6: Click the button 'Add current IP address' so that you can work from your **current** location. If you intend to work from another location, that IP Address will also have to be added.



*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.

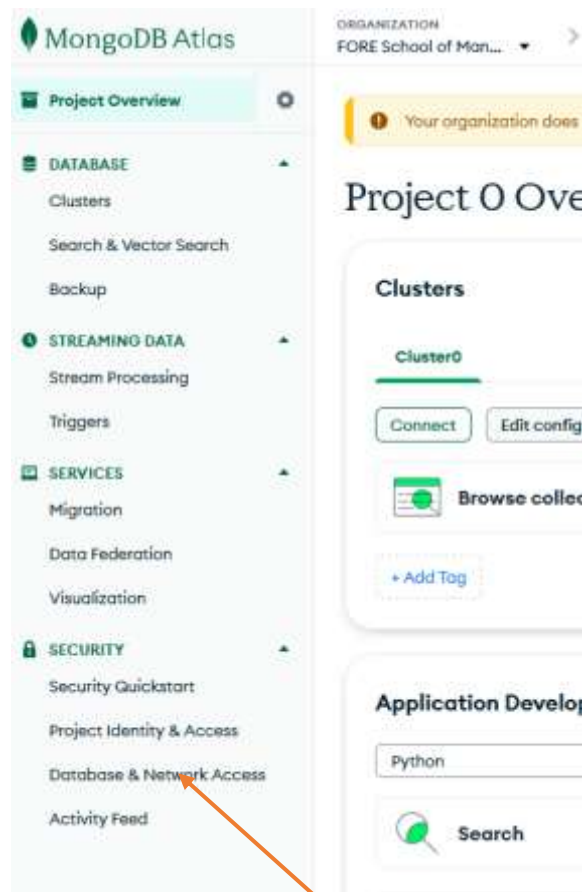


Figure 8: On the left panel click **Database and Network Access**.

*Keep carefully the user and password.*

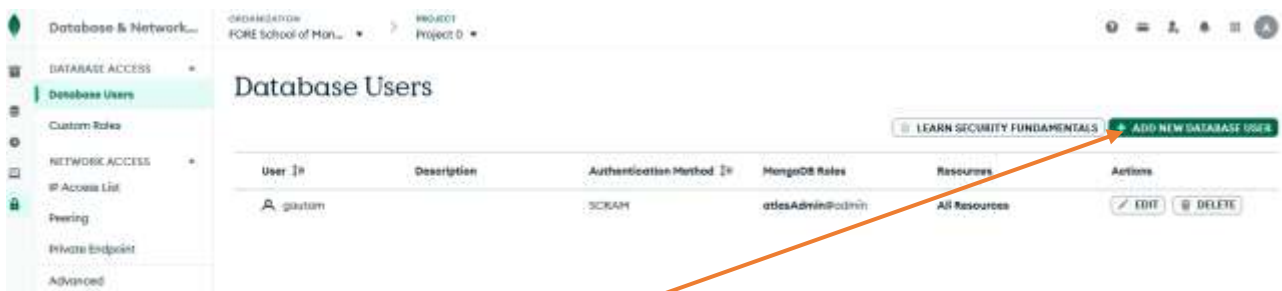


Figure 9: Click on **Add a New Database User**. You are asked to create a database user. Do it. Keep the password simple. First click on **Create Database user**. And then click on **Choose a connection method**. This user has **atlasAdmin** role,

## Add New Database User

Create a database user to grant an application or user access to databases and collections in your clusters in this project. Granular access control can be configured with default privileges or custom roles. You can grant access to project or organization using the corresponding [Access Manager](#)

### Authentication Method

**Password**

**Certificate**

**AWS IAM**

Federated A  
(MongoDB 7.0 c

MongoDB uses [SCRAM](#) as its default authentication method.

### Password Authentication

ashokharnal

..... [SHOW](#)

This password contains special characters which will be URL-encoded.

[Autogenerate Secure Password](#) [Copy](#)

### User Description

Add an optional description to your user.

Admin user

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

## User Description

Add an optional description to your user.

Admin user

## Database User Privileges

Configure role based access control by assigning database user a mix of one built-in role, multiple custom roles, and multiple specific privileges. A user will gain access to all actions within the roles assigned to them, not just the actions those roles share in common. **You must choose at least one role or privilege.** [Learn more about roles.](#)

### Built-in Role

1 SELECTED

Select one [built-in role](#) for this user.

Atlas admin

### Custom Roles

Select your [pre-defined custom role\(s\)](#). Create a custom role in the [Custom Roles](#) tab.

### Specific Privileges

Select multiple privileges and what database and collection they are associated with. Leaving collection blank will grant this role for all collections in the database.

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

The screenshot shows the 'Database Users' configuration page in MongoDB Atlas. The left sidebar contains navigation options: 'Database & Network...', 'DATABASE ACCESS', 'Database Users', 'Custom Roles', 'NETWORK ACCESS', 'IP Access List', 'Peering', 'Private Endpoint', and 'Advanced'. The main content area has a title 'Database Users' and a subtitle 'We are deploying your changes (current action: configuring MongoDB)'. Below this is a table with columns: 'User', 'Description', 'Authentication Method', 'MongoDB Roles', 'Resources', and 'Actions'. The table lists two users: 'oshothamal' (Admin user, SCRAM, atlasAdmin@atlas.mongodb.com, All Resources) and 'goutam' (Admin user, SCRAM, atlasAdmin@atlas.mongodb.com, All Resources). An arrow points to the 'EDIT' button in the 'Actions' column for the 'goutam' user.

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

## 9. IP access list

The screenshot shows the 'IP Access List' configuration page in MongoDB Atlas. The left sidebar contains navigation options: 'Database & Network...', 'DATABASE ACCESS', 'Database Users', 'Custom Roles', 'NETWORK ACCESS', 'IP Access List', 'Peering', 'Private Endpoint', and 'Advanced'. The main content area has a title 'IP Access List' and a subtitle 'You will only be able to connect to your cluster from the following list of IP addresses:'. Below this is a table with columns: 'IP Address', 'Comment', 'Status', and 'Actions'. The table lists two IP addresses: '102.72.89.105/32' (includes your current IP address, Active) and '106.200.180.134/32' (Created as part of the Auto-Setup process, Active). An arrow points to the 'EDIT' button in the 'Actions' column for the '106.200.180.134/32' IP address.

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

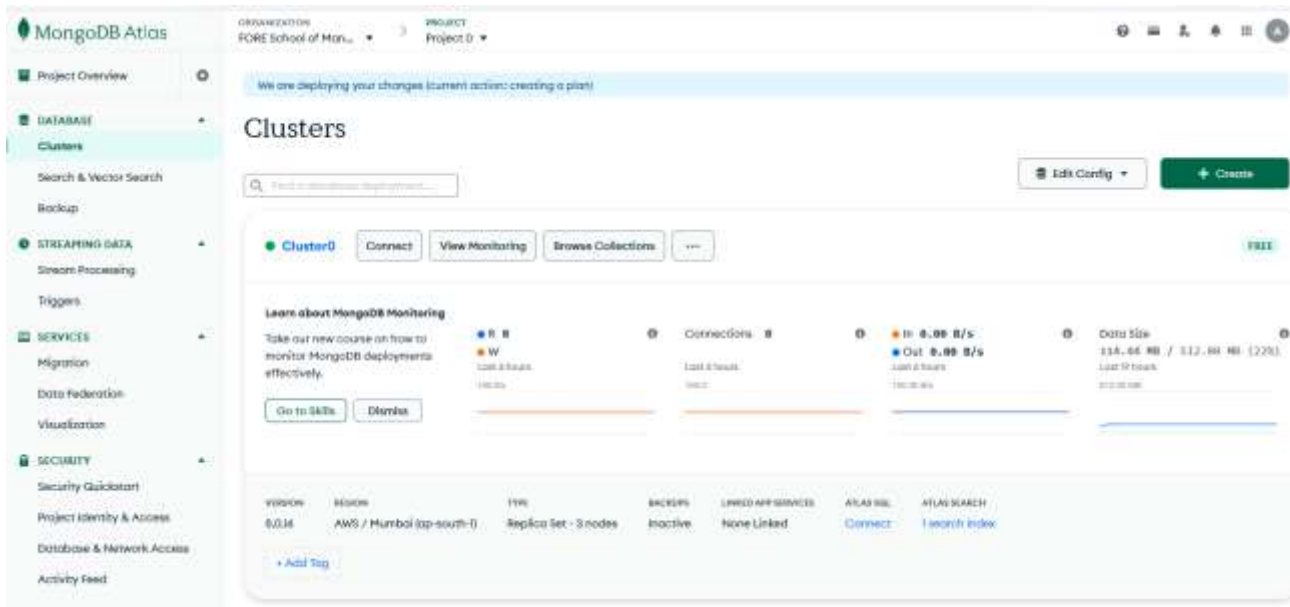


Figure 14: Click on Clusters on the left panel to reach here. Then click Connect button.

## 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:

# Connect to Cluster0

1

2


3

Set up connection security

Choose a connection method

Connect

### Connect to your application




Drivers

Access your Atlas data using MongoDB's native drivers (e.g. Node.js, Go, etc.)

>


### Access your data through tools



Compass

Explore, modify, and visualize your data with MongoDB's GUI


>



Shell

Quickly add & update data using MongoDB's Javascript command-line interface


>



MongoDB for VS Code

Work with your data in MongoDB directly from your VS Code environment


>



Atlas SQL

Easily connect SQL tools to Atlas for data analysis and visualization

>



Model Context Protocol (MCP) Server

Access your data in agentic developer tools (Claude, Cursor, VS Code, Windsurf)

>

Go Back

Close

Figure 15: Click on Compass

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## Connect to Cluster0



### Connecting with MongoDB Compass

I don't have MongoDB Compass installed

I have MongoDB Compass installed

#### 1. Select your operating system and download MongoDB Compass

Ubuntu 64-bit (20.04+)

Download Compass (1.48.2)

or Copy download URL

Compass is an interactive tool for querying, optimizing, and analyzing your MongoDB data.

#### 2. Copy the connection string, then open MongoDB Compass

Use this connection string in your application

mongodb+srv://<db\_username>:<db\_password>@cluster0.hzcbfrs.mongodb.net/

Replace **<db\_password>** with the password for the **<db\_username>** user. Ensure any options are [URL encoded](#).  
You can edit your database user password in [Database Access](#).

##### RESOURCES

[Connect with Compass](#)

[Access your Database Users](#)

[Import and Export Data](#)

[Troubleshoot Connections](#)

Go Back

Done

Figure 16: Select your OS and copy the connection string to notepad. You have to fill in db\_username and its password.

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

**New Connection**

Manage your connection settings

URI ⓘ Edit Connection String

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

Name cluster0.hzcbfrs.mongodb.net Color No Color

☐ Favorite this connection  
Favoriting a connection will pin it to the top of your list of connections

> Advanced Connection Options

Cancel Save Connect Save & Connect

**How do I find my connection string in Atlas?**  
If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect.  
[See example](#)

**How do I format my connection string?**  
[See example](#)

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

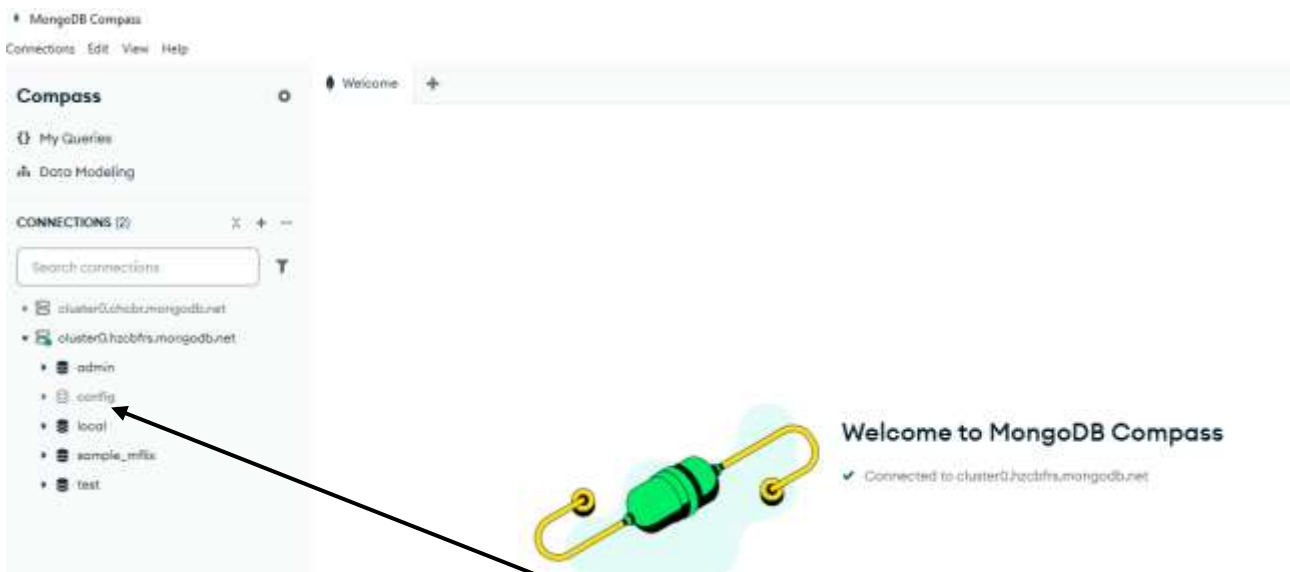


Figure 18: After connection, we get some new objects coming from Atlas.

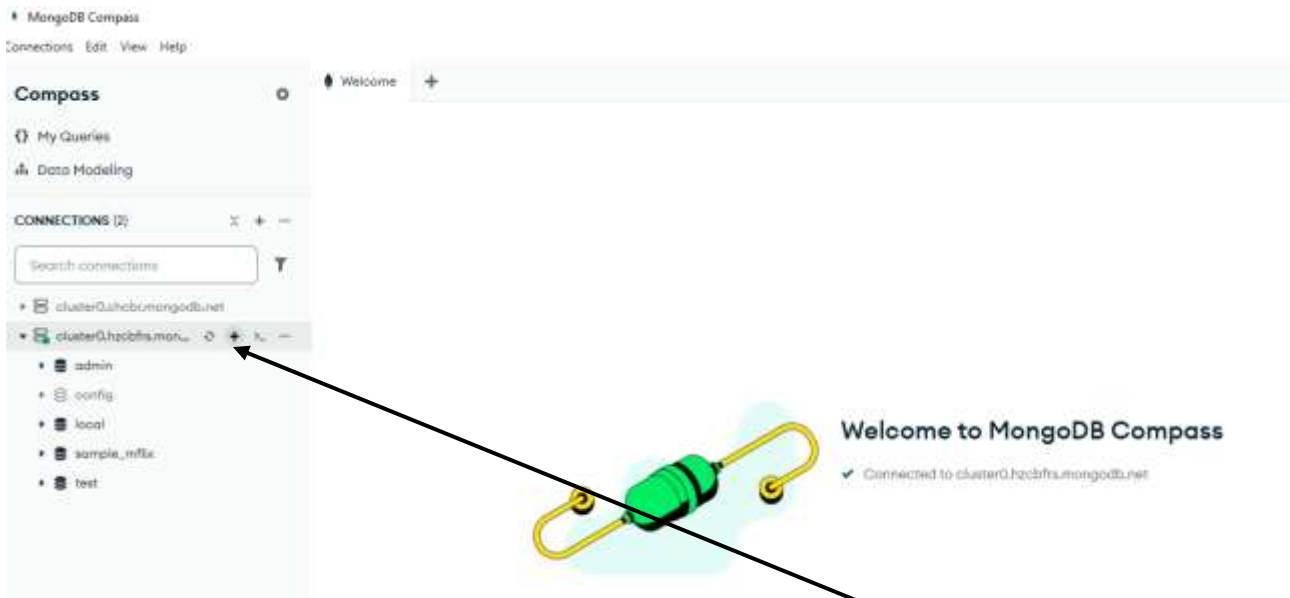


Figure 19: To create a database and within it a collection, click on this + sign against the connection

### 13. Create Database

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

×

## Create Database

**Database Name**

**Collection Name**

☐ **Time-Series**  
 Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#)

> **Additional preferences** (e.g. Custom collation, Clustered collections)

Cancel

Create Database

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

14. Importing data into Collection

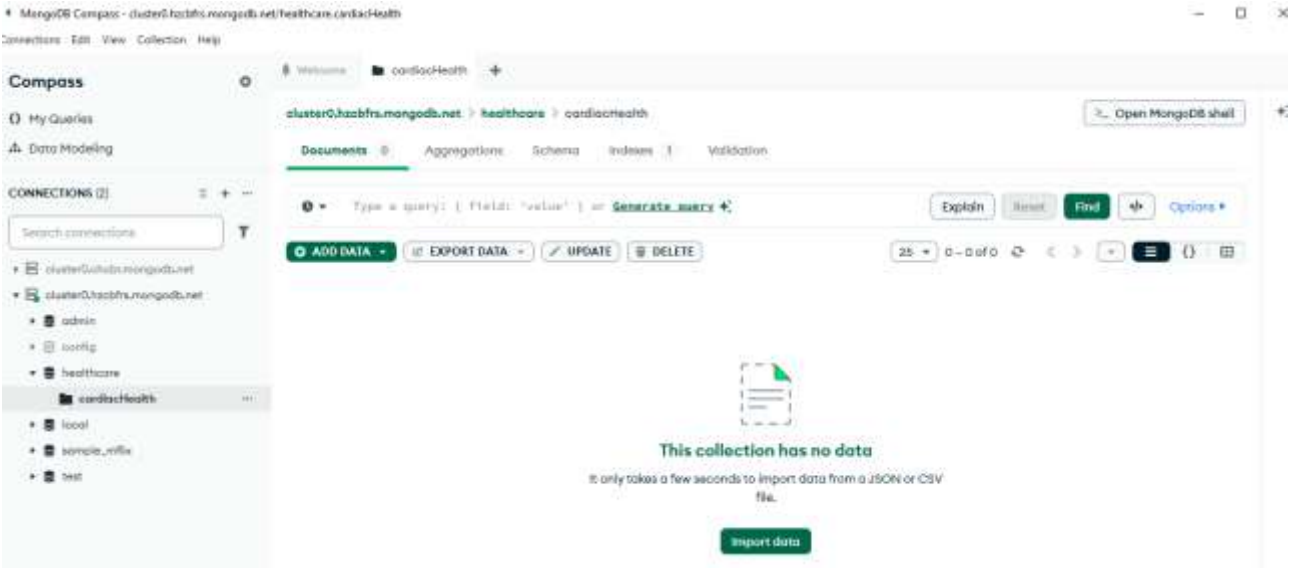


Figure 21: Click Import Data to import any csv file or JSON file in the Collection cardiaHealth.

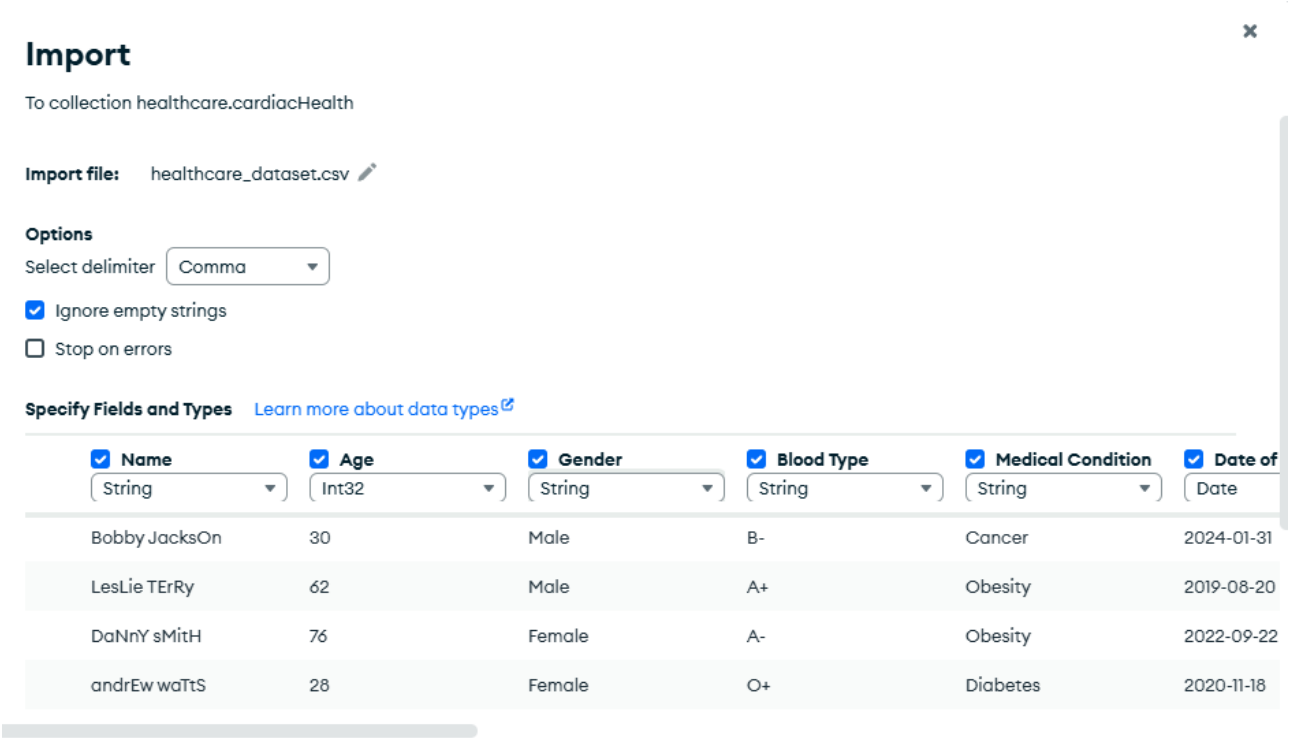


Figure 22: Status after importing. Click again on Import button to commit/.

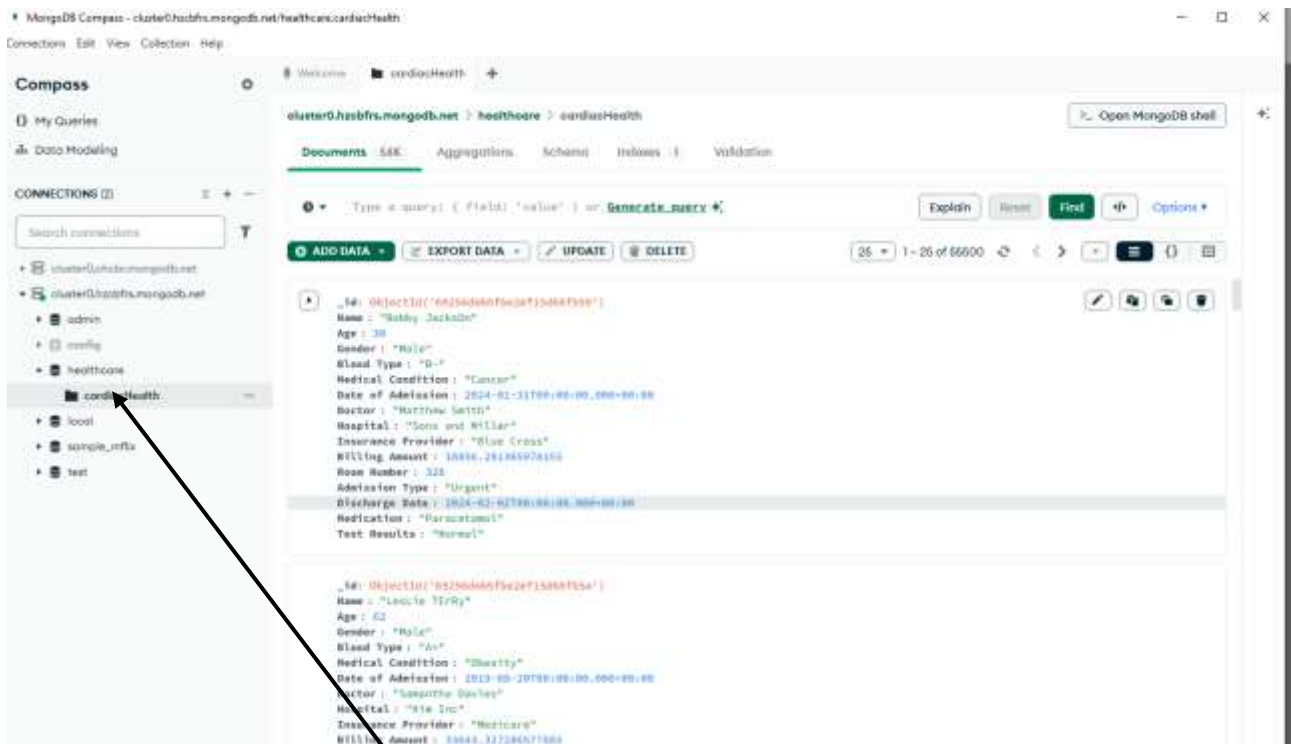


Figure 23: Our data in the collection.

#### 15. Back in Atlas

Back in Atlas, click on cluster0 within the Clusters.

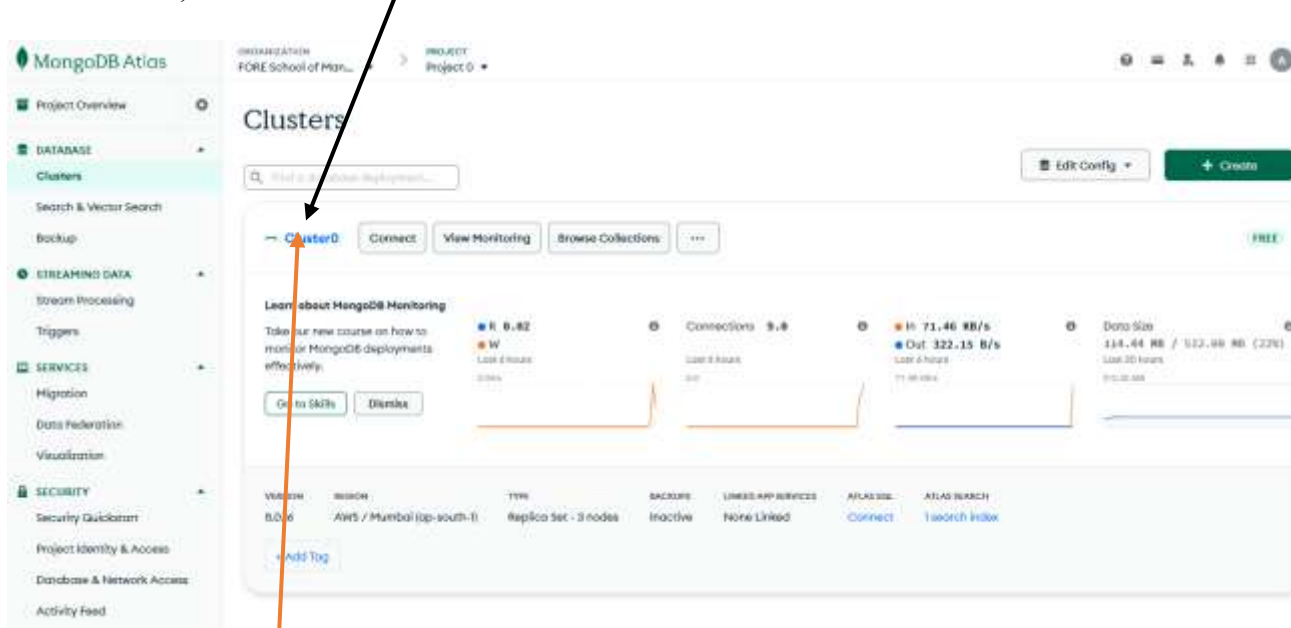


Figure 24: Click cluster0

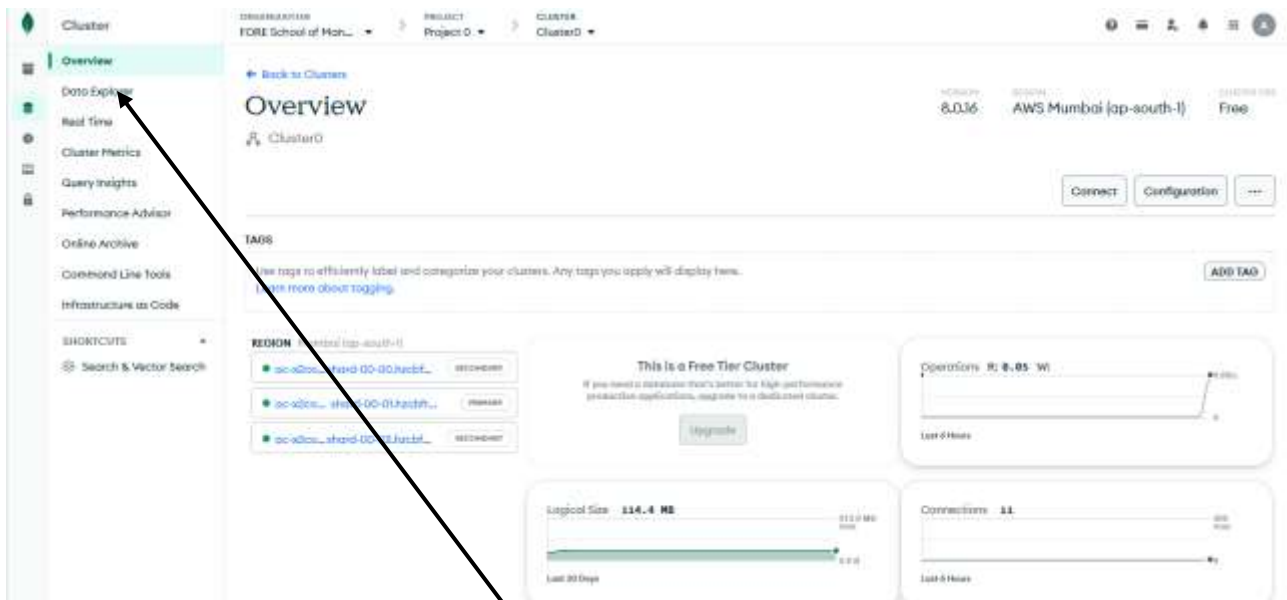


Figure 25: Cluster0 opens. Click Data Explorer to see data.

## 16. Data Visualization

To visualize data, click on Visualize your data button.

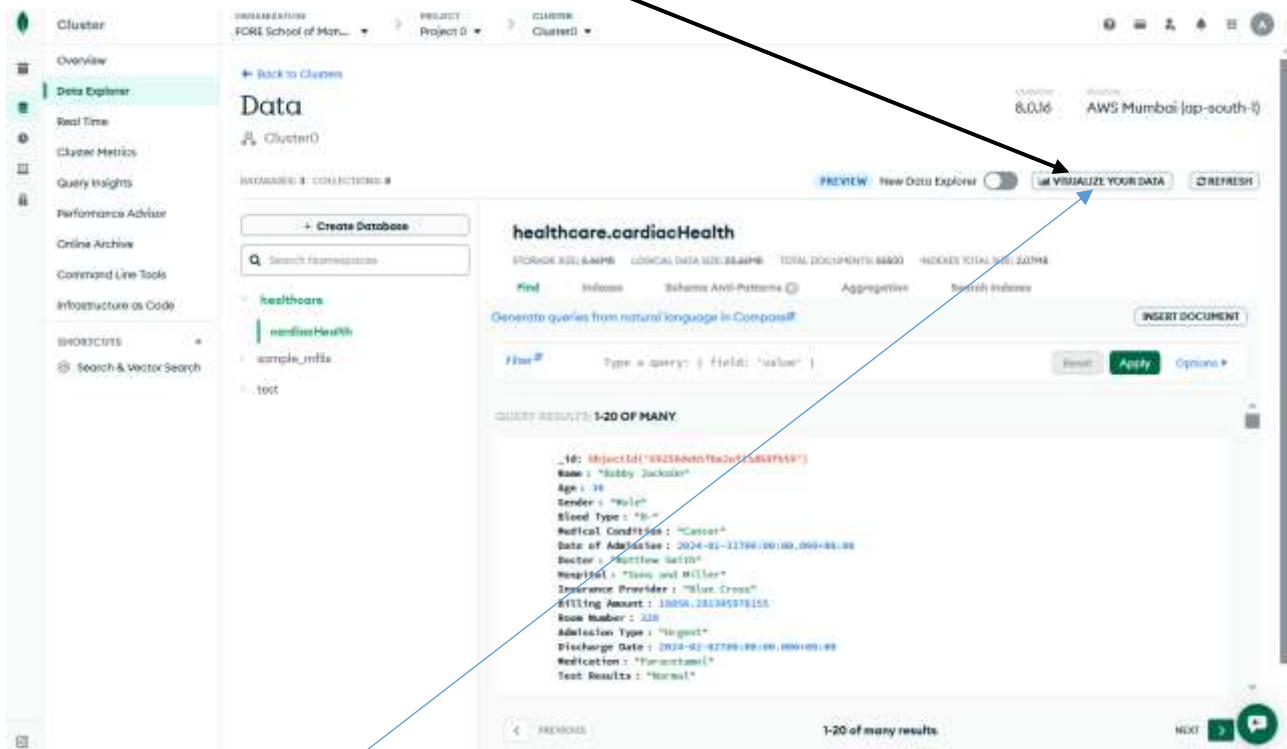


Figure 26: Click on Visualize your data



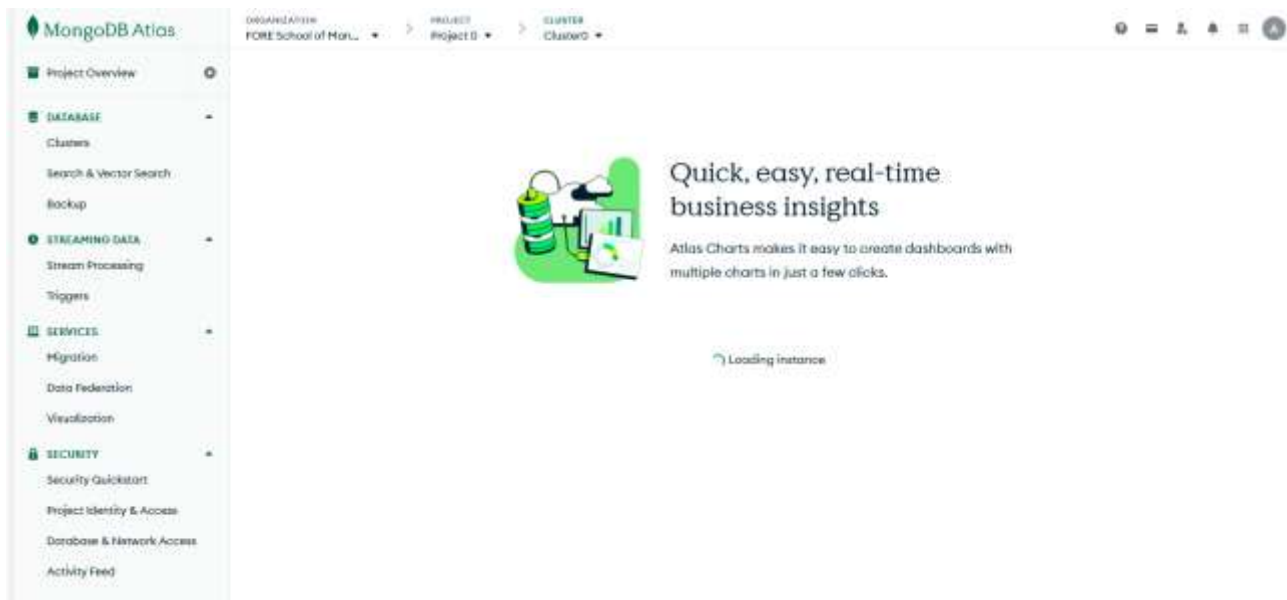


Figure 27: Visualization takes time to open as it first takes a sample of data and then only creates visualization.

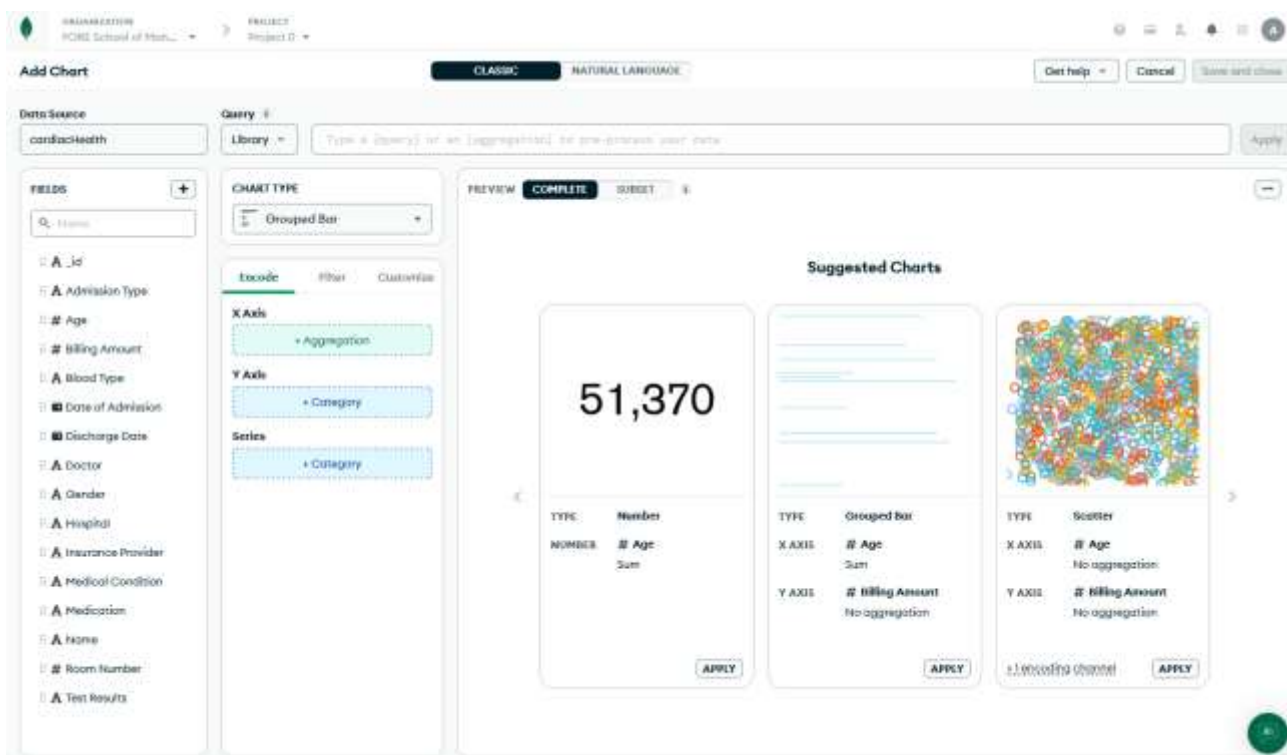


Figure 28: A sample visualization is created from a sample of cardiacHealth collection.

### Solving Compass Atlas Connection String problems

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*.

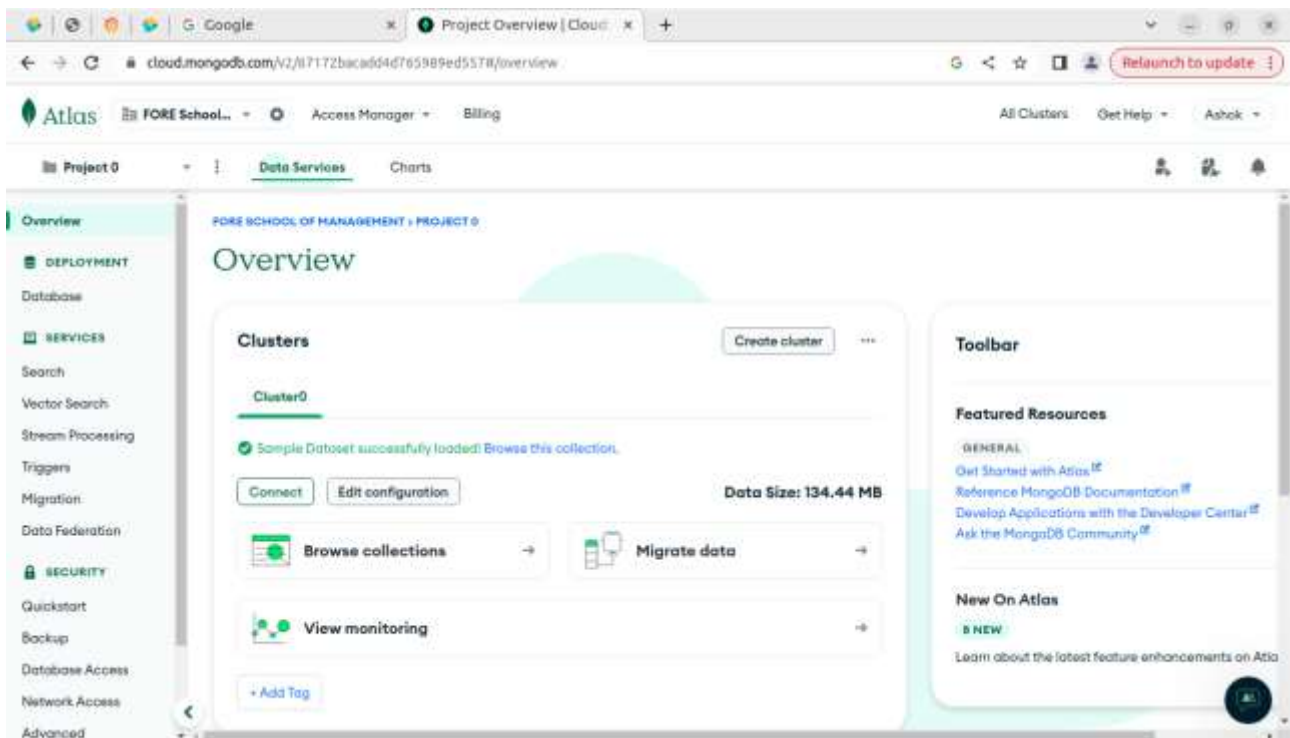


Figure 11: Cluster0 occurs under Project0. Note the total Data Size of database sample\_mflix as 134mb

## 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.

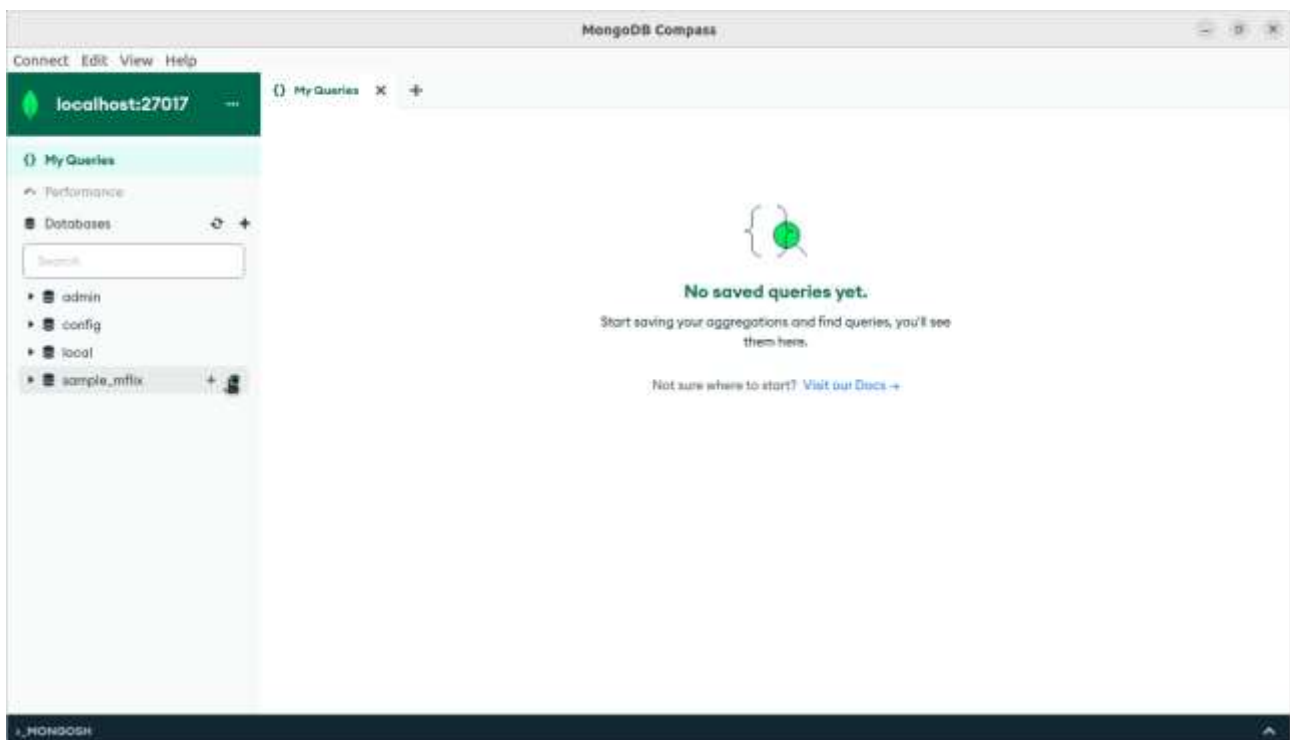


Figure 12: Back in *compass*, let us drop this database by clicking on the trash icon against it.

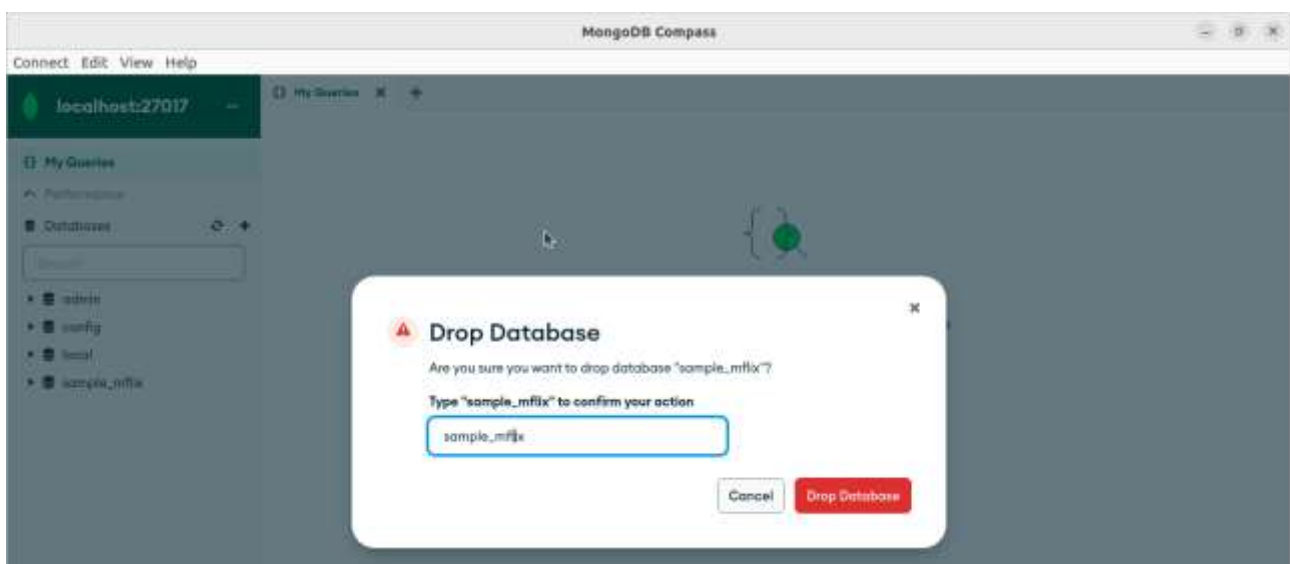


Figure 13: Click Drop database button

Back in Atlas, observe if database will be dropped?

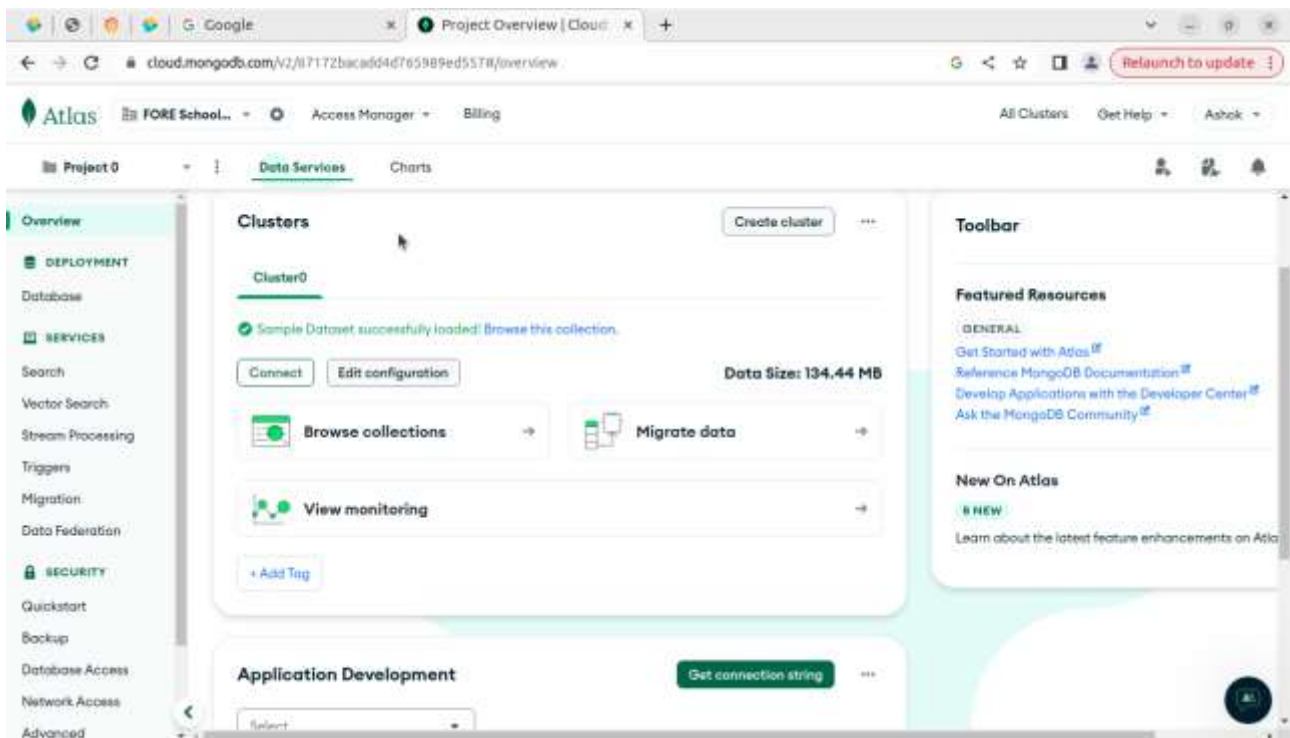


Figure 14: In **Project0** page, Click on **Browse Collections** again.

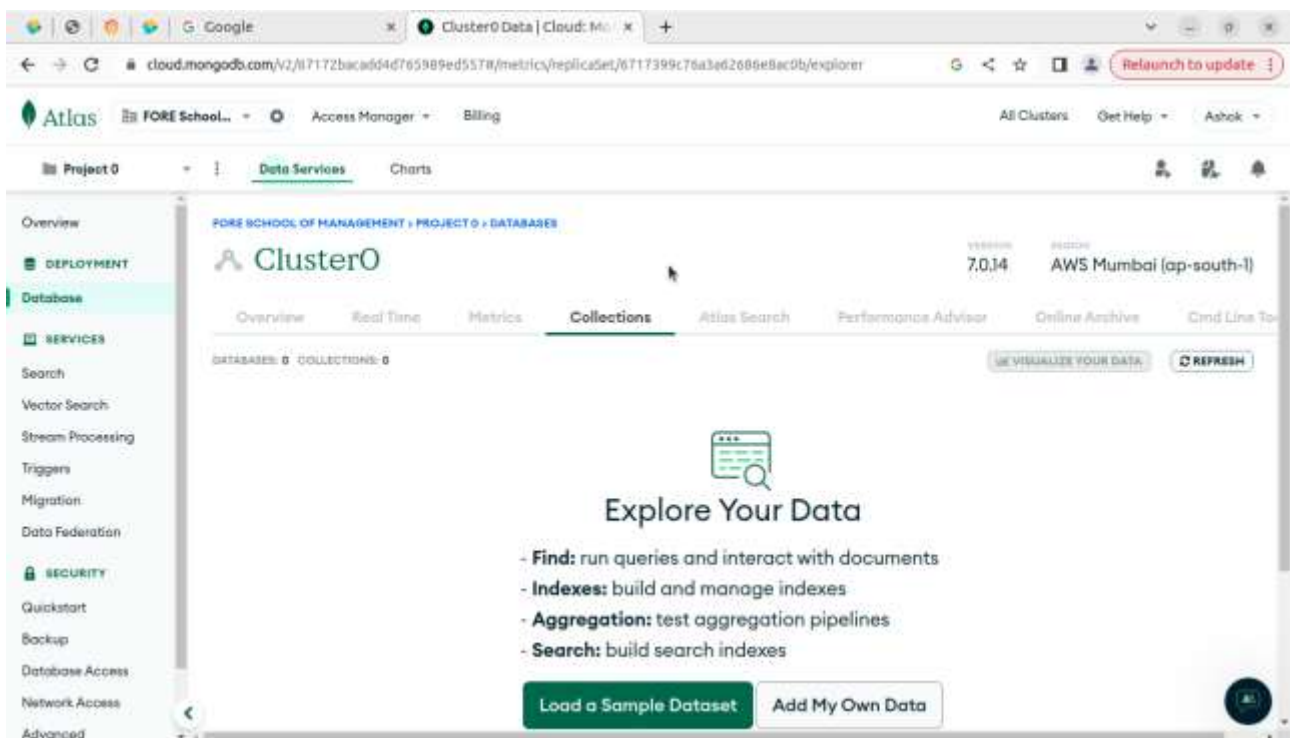


Figure 15: No database or collection is available in Cluster0.

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