

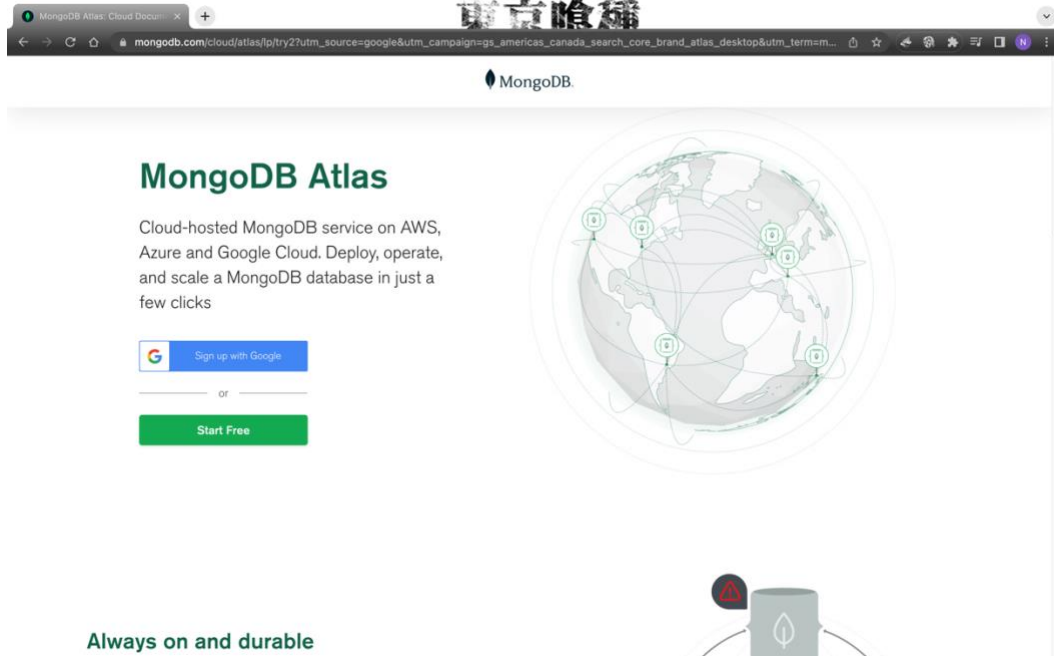
CCPS530 Lab 7 – Technical Report

Naushad Sayeed

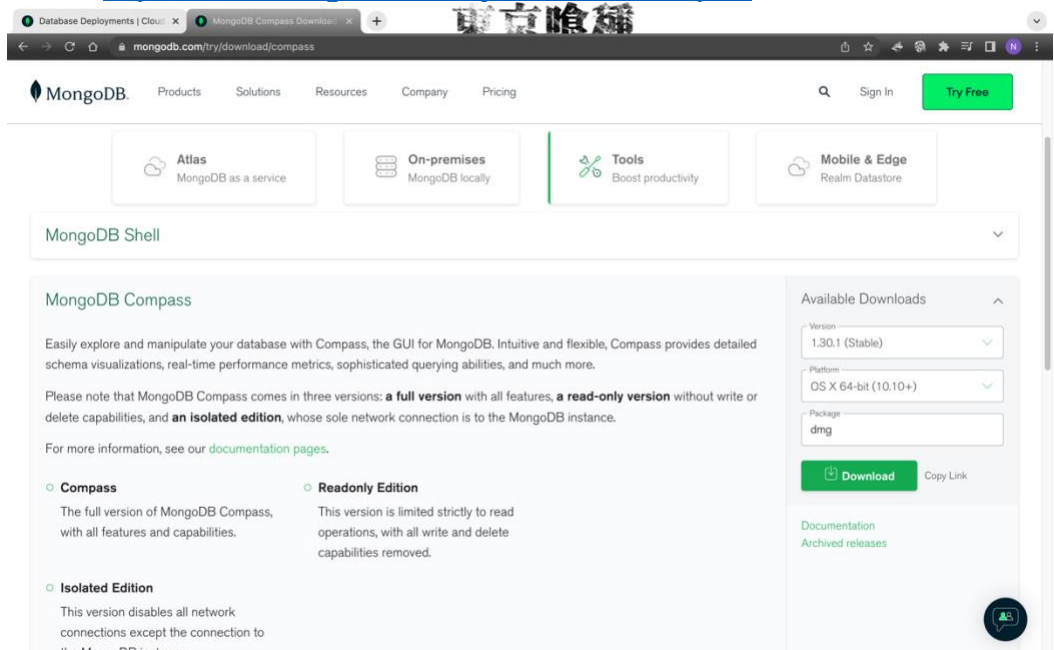
March 28, 2022

Screenshots of my Setup

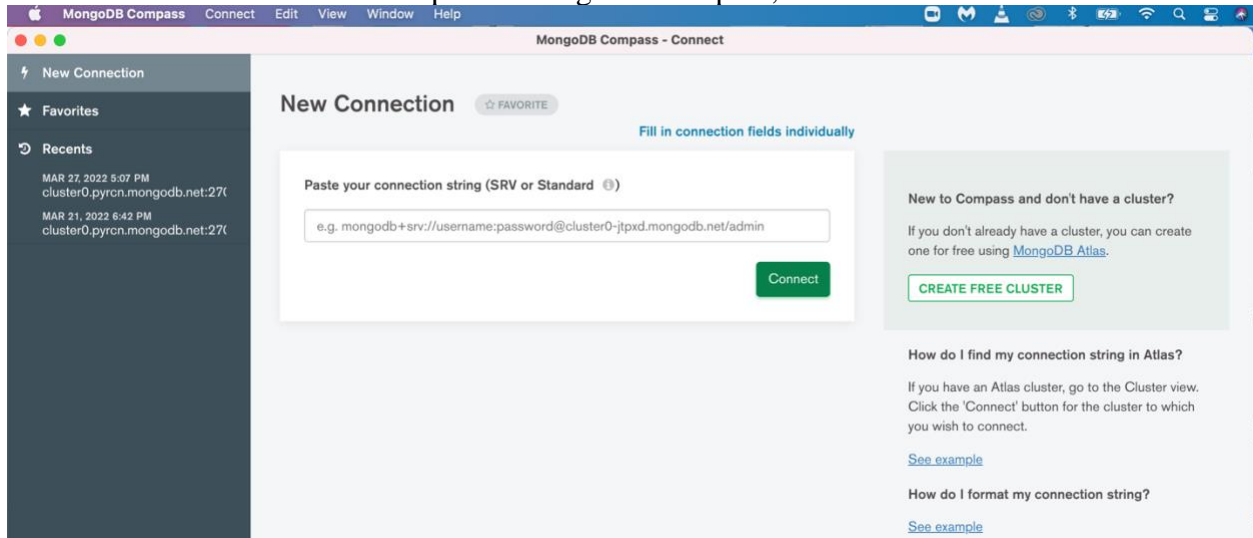
1. I first logged in to MongoDB Atlas with my Ryerson Gmail account. Then on my first Login where I automatically registered, I selected “Learn MongoDB”, “Business Intelligence”, and “Python”. Then I selected the Free (Shared) version of it, and then I picked whatever is selected in default like AWS. Then I clicked on “Create Cluster”.



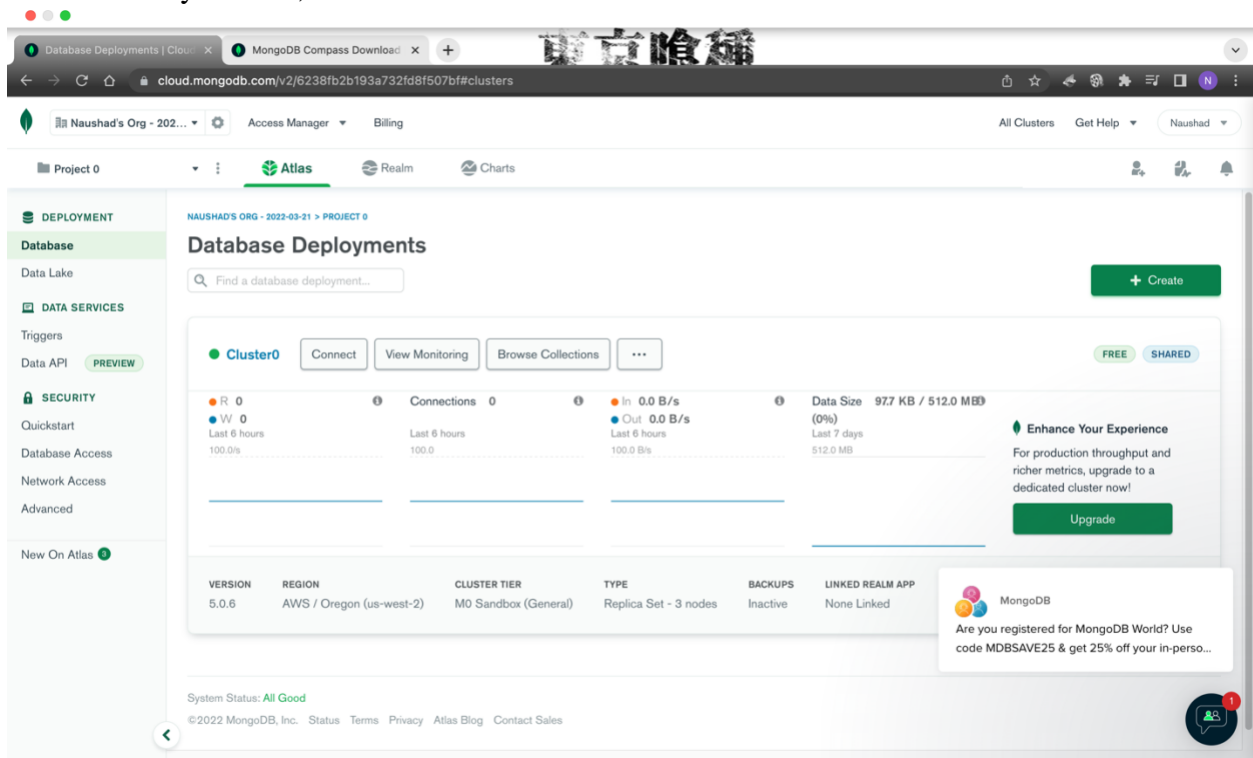
2. Then I opened a new tab and downloaded MongoDB compass from this website:
<https://www.mongodb.com/try/download/compass>



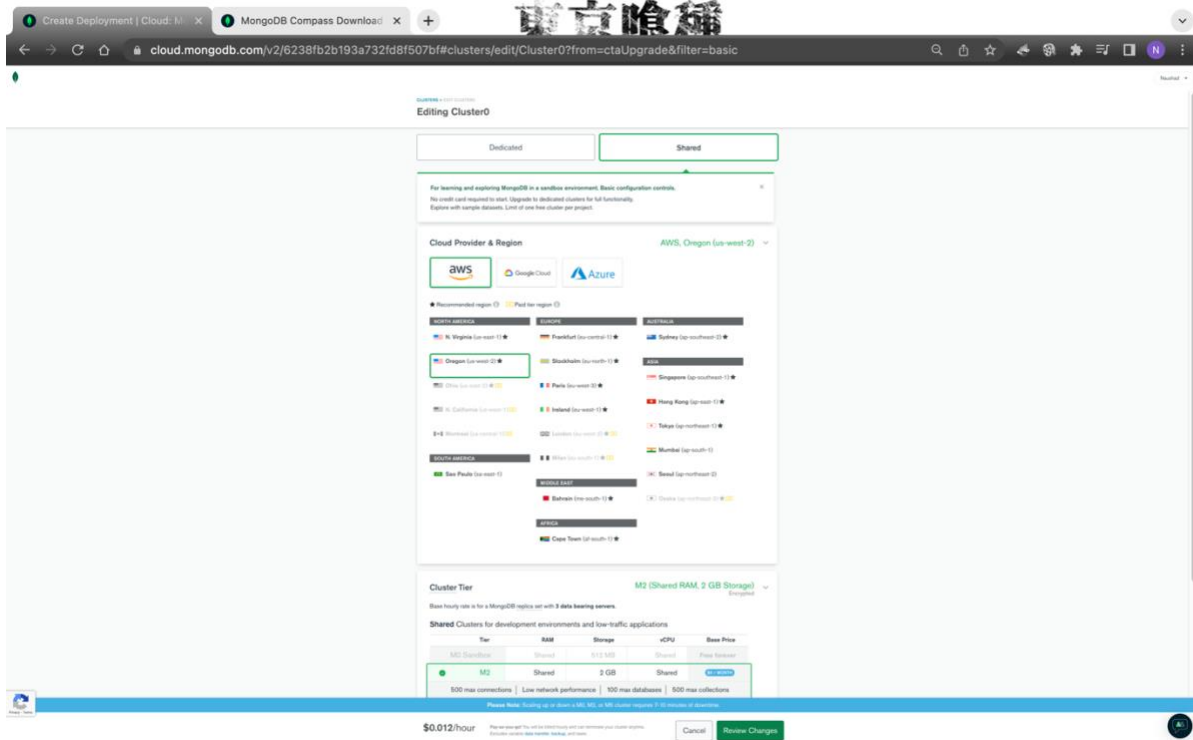
3. After I downloaded and opened MongoDB compass, it looks like this:



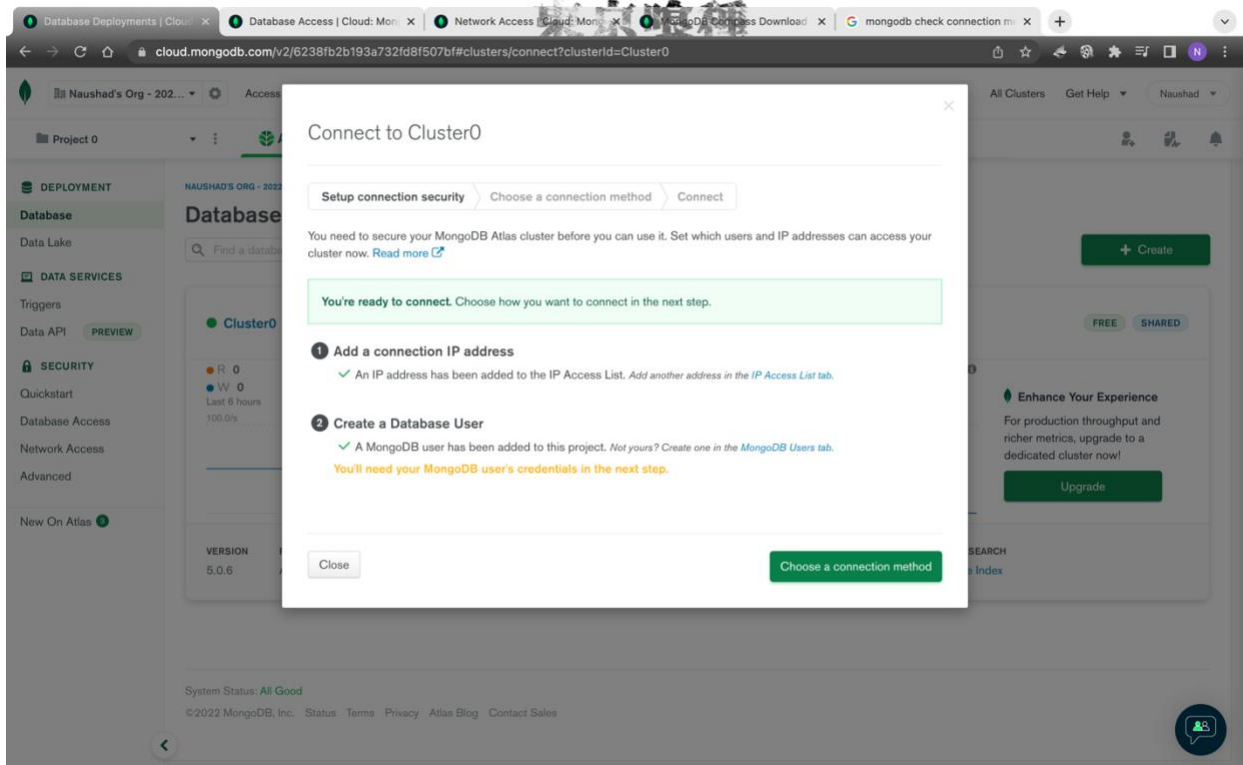
4. After that, I went back to the tab with Database deployments to connect. Since a cluster is already created, it looks like this.



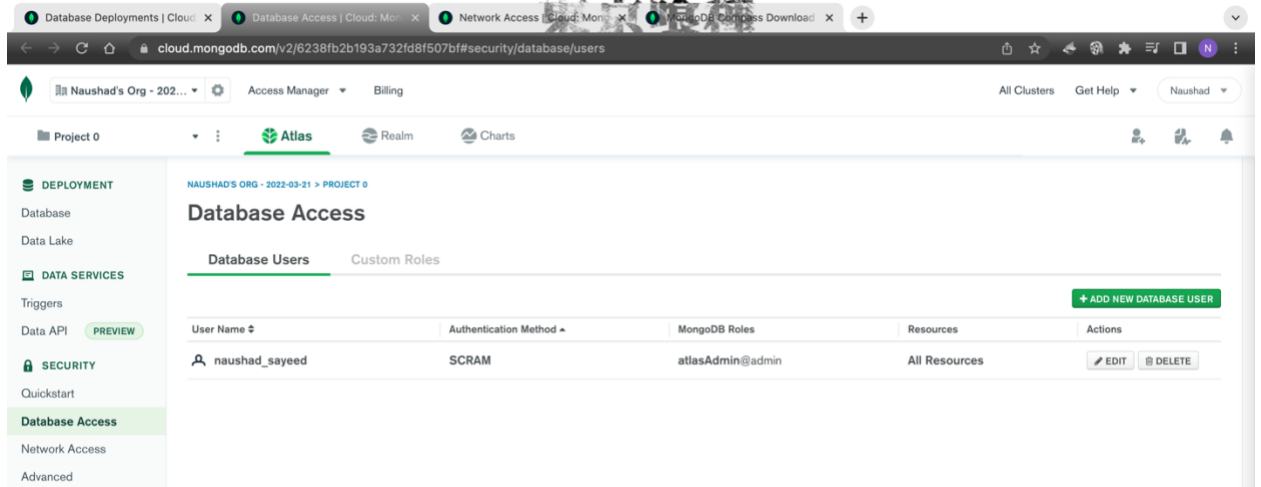
5. I am able to select “Edit Cluster” to view what I selected.



6. Since I already finished setting up connection security, it looks like this. If it was my first time, I would be selecting “Allow Access from Anywhere” where the IP address is all 0s. I also created my username and password for this.

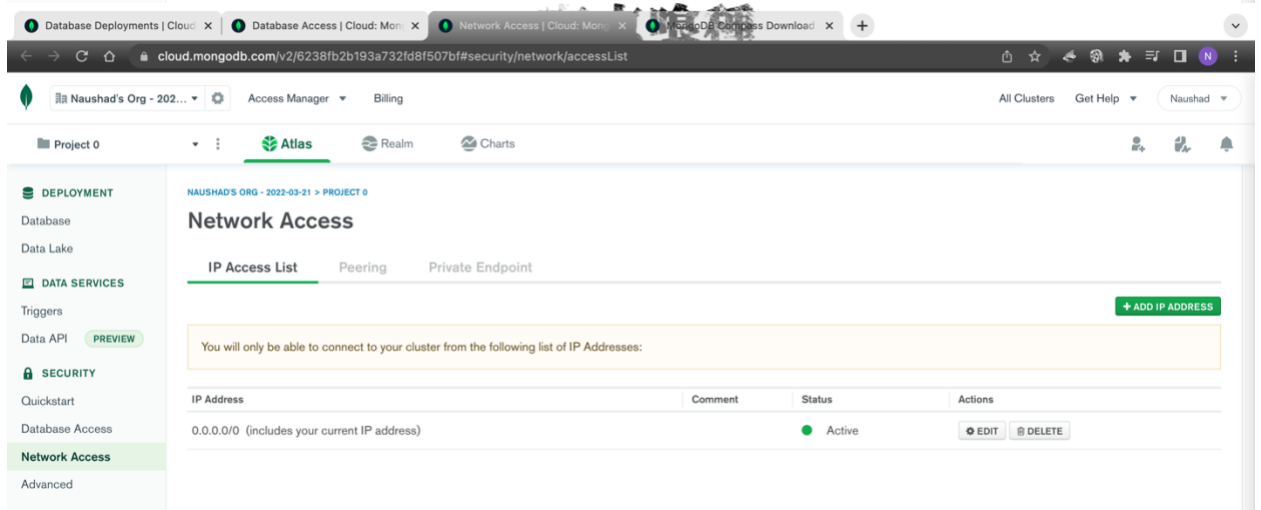


7. I am able to view the database created from “Database Access” and I can view my IP Address from “Network Access\



The screenshot shows the MongoDB Atlas interface for "Database Access". The left sidebar contains navigation options: DEPLOYMENT (Database, Data Lake), DATA SERVICES (Triggers, Data API), and SECURITY (Quickstart, Database Access, Network Access, Advanced). The main content area is titled "Database Access" and has two tabs: "Database Users" (selected) and "Custom Roles". A table lists database users with columns for User Name, Authentication Method, MongoDB Roles, Resources, and Actions. One user is listed: "naushad_sayeed" with SCRAM authentication and atlasAdmin@admin role. A "+ ADD NEW DATABASE USER" button is in the top right.

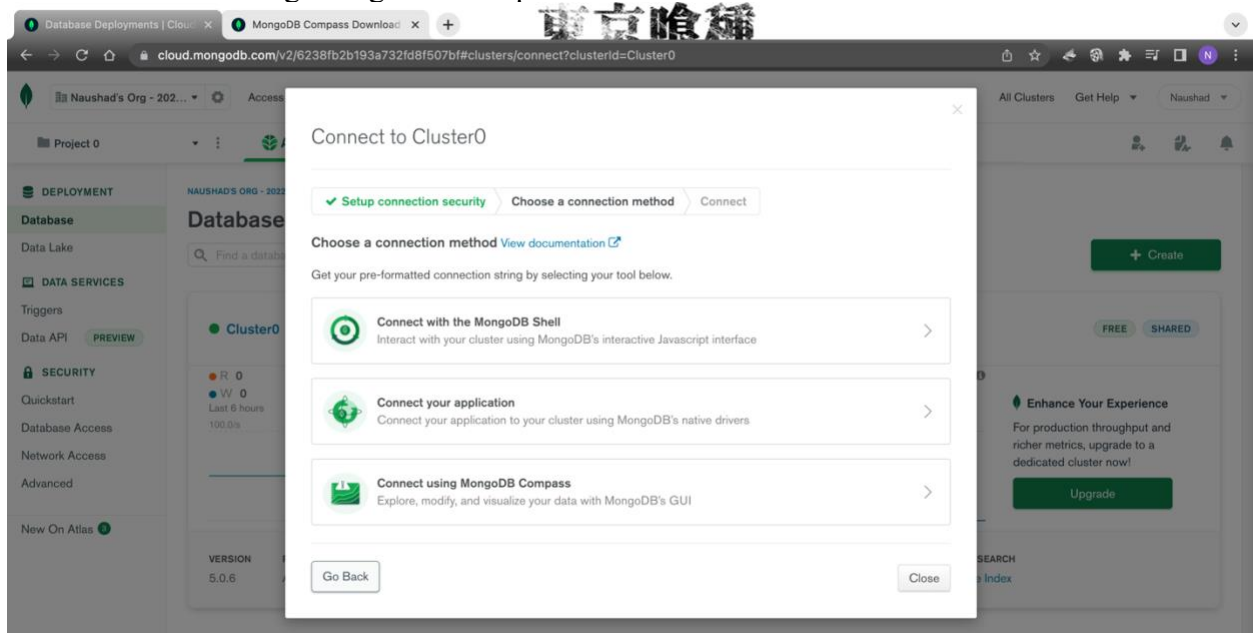
User Name	Authentication Method	MongoDB Roles	Resources	Actions
naushad_sayeed	SCRAM	atlasAdmin@admin	All Resources	EDIT DELETE



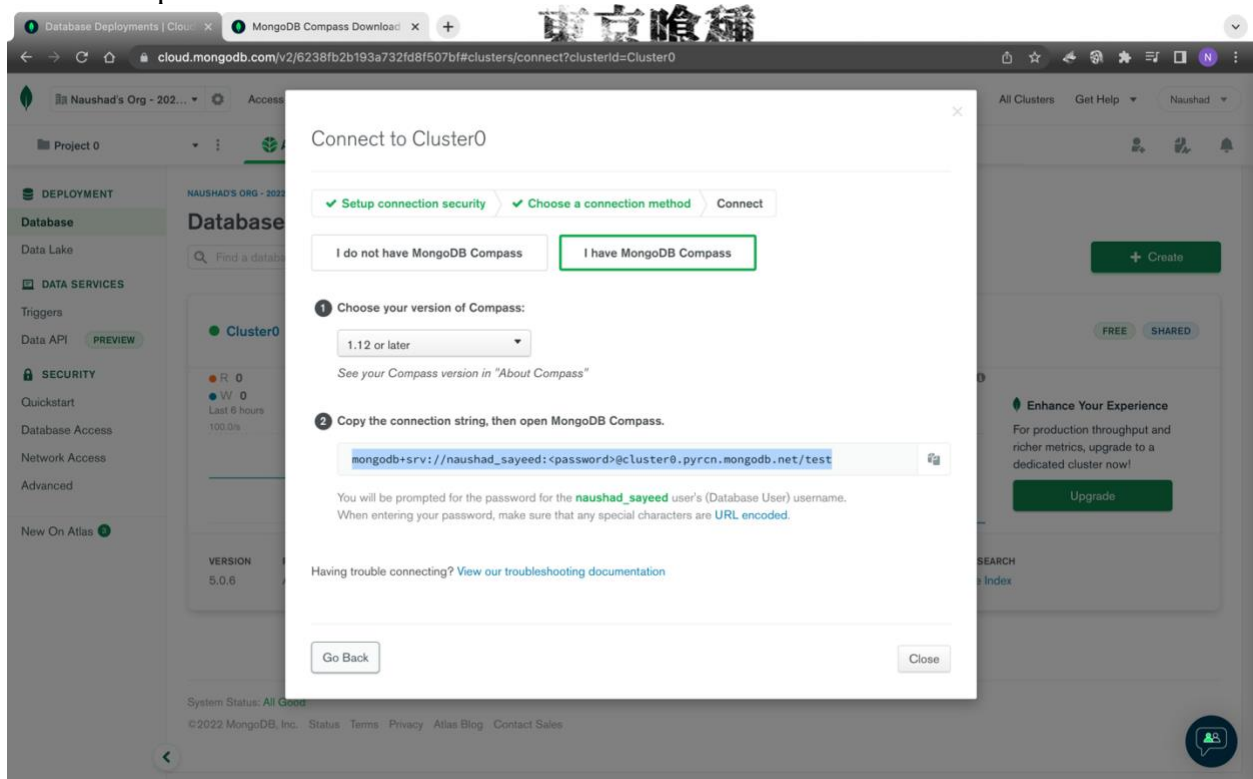
The screenshot shows the MongoDB Atlas interface for "Network Access". The left sidebar is the same as the previous screenshot. The main content area is titled "Network Access" and has three tabs: "IP Access List" (selected), "Peering", and "Private Endpoint". A message states: "You will only be able to connect to your cluster from the following list of IP Addresses:". Below this is a table with columns for IP Address, Comment, Status, and Actions. One IP address is listed: "0.0.0.0/0 (includes your current IP address)" with an "Active" status. A "+ ADD IP ADDRESS" button is in the top right.

IP Address	Comment	Status	Actions
0.0.0.0/0 (includes your current IP address)		Active	EDIT DELETE

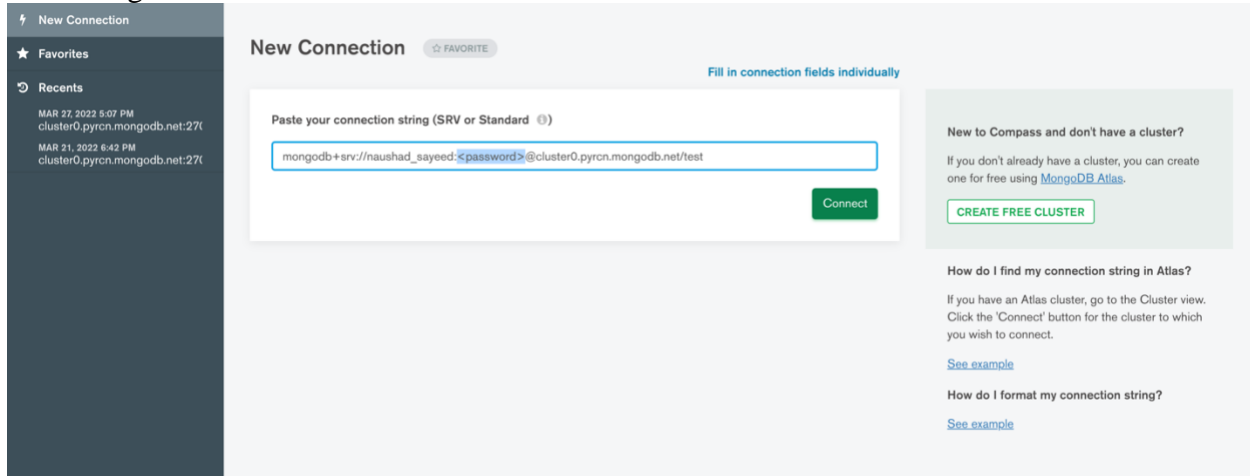
8. Now I'm back on the connection section where I "Choose a connection method". I select "Connect using MongoDB Compass"



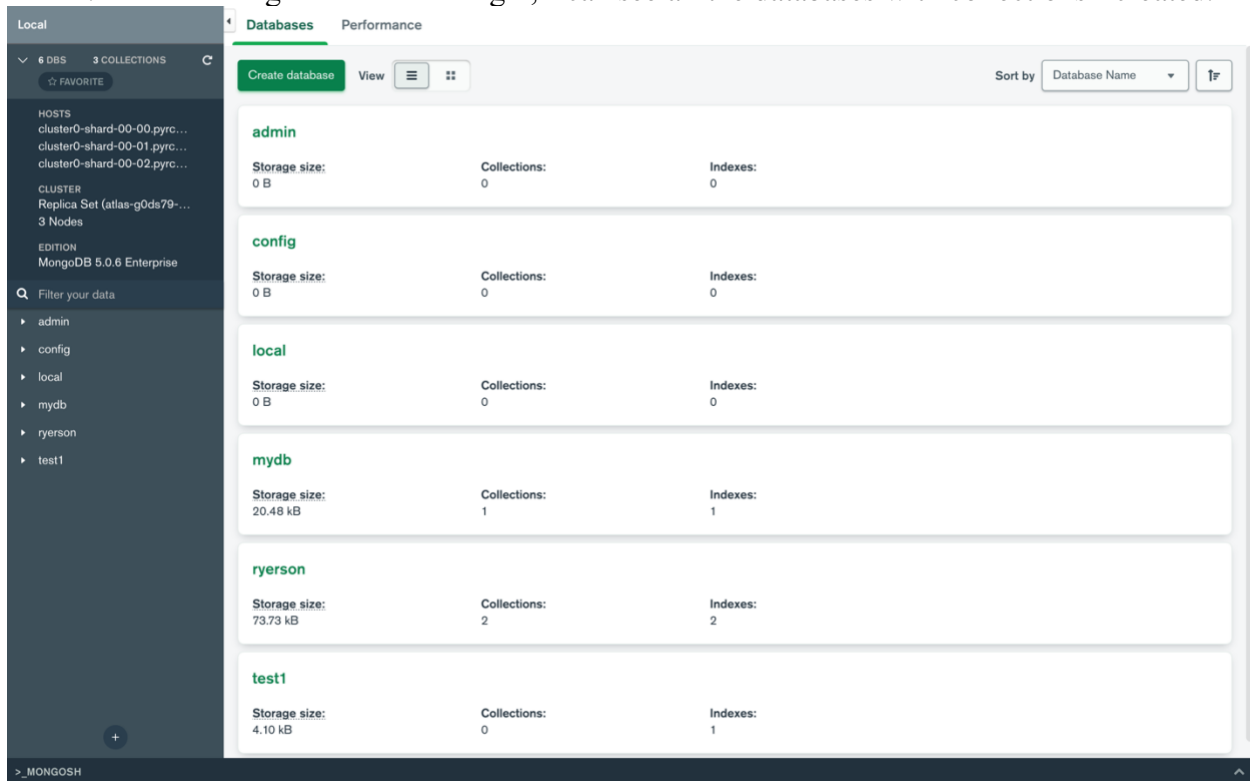
9. Then I select, "I have MongoDB Compass" since I downloaded that already, then I copy and paste that URL.



10. Then I open the MongoDB compass again and I paste that URL from the above screenshot. I just replace the <password> with my password. Then I click “Connect” to login.



11. After clicking “Connect” to login, I can see all the databases with collections I created.



The rest of the details will be explained in the report, which starts in the next page.

4a. Write the queries used in creating the book collection.

```
var docs = [  
  { title: "The Giver", author: "Lois Lowry", publisher: "Houghton Mifflin", date: "1993", website:  
"https://en.wikipedia.org/wiki/The_Giver"},  
  { title: "Harry Potter", author: "J. K. Rowling", publisher: "Bloomsbury Publishing", date: "26 June 1997", website:  
"https://en.wikipedia.org/wiki/Harry_Potter"},  
  { title: "Captain Underpants", author: "Dav Pilkey", publisher: "Scholastic", date: "September 1, 1997", website:  
"https://en.wikipedia.org/wiki/Captain_Underpants"},  
  { title: "Pokémon Adventures", author: "Hidenori Kusaka", publisher: "Shogakukan", date: "March 1997", website:  
"https://en.wikipedia.org/wiki/Pok%C3%A9mon_Adventures"},  
  { title: "Spider-Man", author: "Stan Lee and Steve Ditko", publisher: "Marvel Comics", date: "August 1962",  
website: "https://en.wikipedia.org/wiki/Spider-Man"}  
];
```

Screenshots of Inserting Documents

```
sayed@Sayed-MacBook-Pro NaushadSayed_CCPS530_Lab7 % node app.js  
documents inserted  
sayed@Sayed-MacBook-Pro NaushadSayed_CCPS530_Lab7 %
```

The screenshot shows the MongoDB Compass interface. On the left, the 'Local' sidebar displays the database structure, including the 'ryerson' database and the 'books' collection. The main window shows the 'ryerson.books' collection with a table of five documents. Each document contains the following fields: `_id`, `title`, `author`, `publisher`, `date`, and `website`. The documents correspond to 'The Giver', 'Harry Potter', 'Captain Underpants', 'Pokémon Adventures', and 'Spider-Man'.

Document ID	title	author	publisher	date	website
ObjectID("62415ed96828d19d951be8bb")	"The Giver"	"Lois Lowry"	"Houghton Mifflin"	"1993"	"https://en.wikipedia.org/wiki/The_Giver"
ObjectID("62415ed96828d19d951be8bc")	"Harry Potter"	"J. K. Rowling"	"Bloomsbury Publishing"	"26 June 1997"	"https://en.wikipedia.org/wiki/Harry_Potter"
ObjectID("62415ed96828d19d951be8bd")	"Captain Underpants"	"Dav Pilkey"	"Scholastic"	"September 1, 1997"	"https://en.wikipedia.org/wiki/Captain_Underpants"
ObjectID("62415ed96828d19d951be8be")	"Pokémon Adventures"	"Hidenori Kusaka"	"Shogakukan"	"March 1997"	"https://en.wikipedia.org/wiki/Pok%C3%A9mon_Adventures"
ObjectID("62415ed96828d19d951be8bf")	"Spider-Man"	"Stan Lee and Steve Ditko"	"Marvel Comics"	"August 1962"	"https://en.wikipedia.org/wiki/Spider-Man"

4b. Write the queries used in inserting documents to the book collection.

```
collection.insertMany(docs, function(err, res) {  
  if (err) throw err;  
  console.log("documents inserted");  
  client.close();  
});
```

4c. How long did you spend on this lab? Length of time includes readings and research and code experimentation. State time involved in readings and research as well as code experimentation sessions.

It took me 5 hours to do this lab:

- 4 hours to do the readings and research
- 1 hour for code experimentation which lead me to finishing the lab.

Appendix A – Entire Code for this Lab

```
const { MongoClient, ServerApiVersion } = require('mongodb');
const uri =
"mongodb+srv://naushad_sayeed:naushadmedialab123@cluster0.pyrcn.mongodb.net/mydb?retryWrites=true&w=ma
jority";

const client = new MongoClient(uri, { useNewUrlParser: true, useUnifiedTopology: true, serverApi:
ServerApiVersion.v1 });

client.connect(err => {
  const collection = client.db("ryerson").collection("books");
  var docs = [
    { title: "The Giver", author: "Lois Lowry", publisher: "Houghton Mifflin", date: "1993", website:
"https://en.wikipedia.org/wiki/The_Giver"},
    { title: "Harry Potter", author: "J. K. Rowling", publisher: "Bloomsbury Publishing", date: "26 June 1997", website:
"https://en.wikipedia.org/wiki/Harry_Potter"},
    { title: "Captain Underpants", author: "Dav Pilkey", publisher: "Scholastic", date: "September 1, 1997", website:
"https://en.wikipedia.org/wiki/Captain_Underpants"},
    { title: "Pokémon Adventures", author: "Hidenori Kusaka", publisher: "Shogakukan", date: "March 1997", website:
"https://en.wikipedia.org/wiki/Pok%C3%A9mon_Adventures"},
    { title: "Spider-Man", author: "Stan Lee and Steve Ditko", publisher: "Marvel Comics", date: "August 1962",
website: "https://en.wikipedia.org/wiki/Spider-Man"}
  ];

  collection.insertMany(docs, function(err, res) {
    if (err) throw err;
    console.log("documents inserted");
    client.close();
  });
});
```