

Setup MongoDB using Atlas Cloud Cluster

Last update: July 11, 2022.

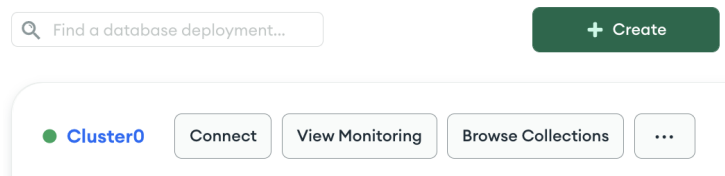
This installation of MongoDB on a hosted server is recommended, especially if you use a Mac (which is error-prone).

Install the database resources

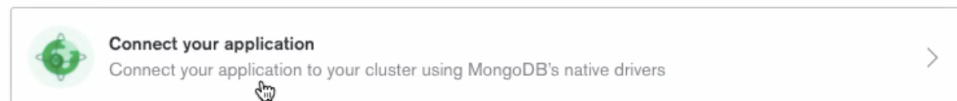
1. At the [MongoDB Atlas website](#):

- a. Login using your **OSU Google** credentials. (Feel free to make a personal account later for personal projects.)
- b. In the **Atlas** tab, make these choices:
 - i. Goal: Application in single view with JavaScript as the preferred language. Click Finish.
- c. Choose **free Shared Deployment option**. Click Create.
- d. Choose **Google Cloud** in North America, **Iowa**. Click Create Cluster.
- e. How to connect:
 - i. **Create a user account** for this cluster with username and password. Click Create User.
 - ii. View the User lower on the screen, then choose where to connect from:
 1. Our localhost will talk to the DB on Atlas server. We must **whitelist** My Local Environment. Add your **IP address** in the My Current IP Address field.
 2. View it lower in the screen.
 3. Finish and Close to view the Congrats message.
 4. Click **Go to Databases** to view your new Project 0 with Database **Cluster 0**.

Database Deployments



- iii. Click the **Connect** button.
- iv. Choose the second connection option for your application.



- v. Choose a **connection method** > **Connect your driver** > **node.js** version 4.1 or higher.

1 Select your driver and version

DRIVER	VERSION
Node.js ▼	4.1 or later ▼

2 Add your connection string into your application code

☐ Include full driver code example

```
mongodb+srv://mongo-username:<password>@cluster-cs290.chwzb.mongodb.net/?  
retryWrites=true&w=majority
```

1. Copy the **connection string** to a file for later use.
2. Replace **password** with your new user's actual password (don't include < or > within the path).
`mongodb+srv://dbusername:mydogLovesCode876@cluster0.chwzb.mongodb.net/?retryWrites=true&w=majority`

- f. To make a new Database in this project/cluster, click the Database link on the left vertical menu.

2. **Connect to the database collection:**



3. Copy the **connection string** into the **.env** file of your app workspace:

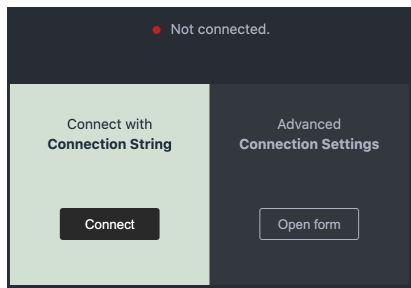
a. `MONGODB_CONNECT_STRING='mongodb+srv://pamvanlonden:AkeebuLovesCode876@cluster0.ybrfb.mongodb.net/?retryWrites=true&w=majority'`

1. In the Terminal, run `npm install` and `npm start` to add the node_modules folder and test the connection.
 - a. If you get the success message, then continue on.
 - b. If you get error messages, then check that you have not deleted any syntax/punctuation, have the username:password correct, and the cluster name correct in the string.

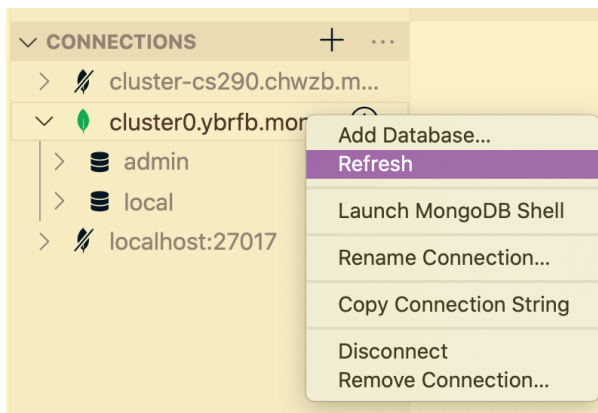
Viewing Documents in the Atlas Cluster from VS Code

Once you have installed a set of files for your app, and it includes a connection script and .env file, and you have added data to the documents of the database, you can then view that data in documents from VS Code:

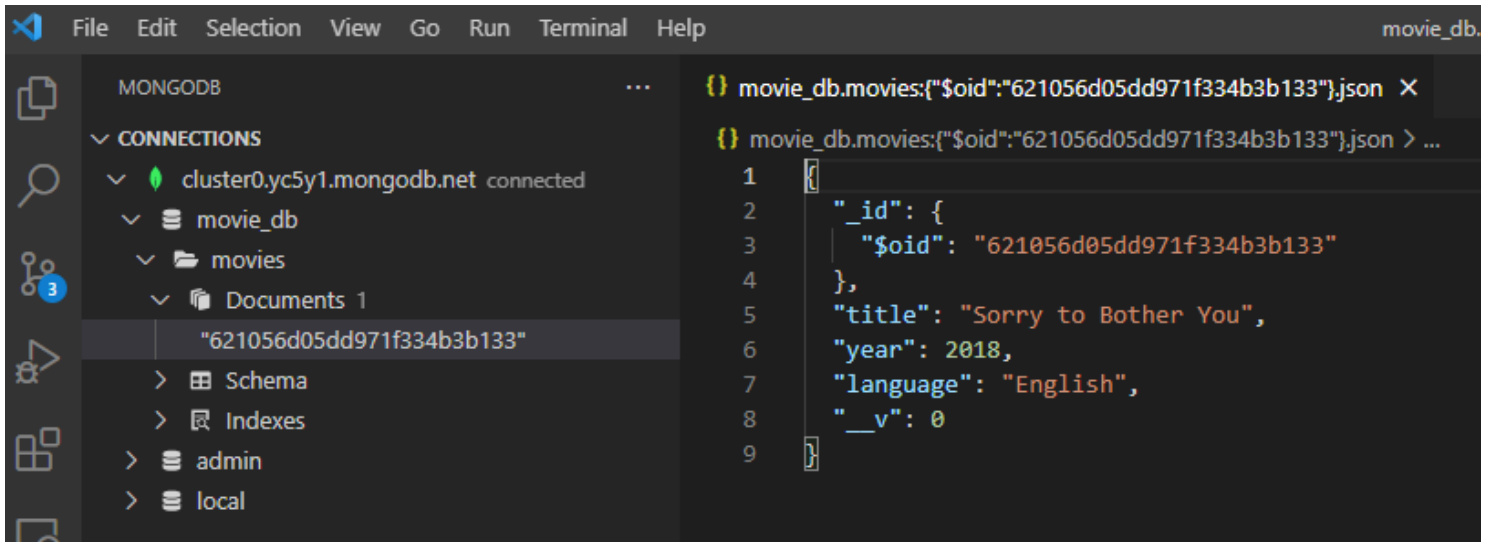
2. In a new VS Code window:
 - a. Add the [MongoDB for VS Code](#) extension.
 - b. Click the  **Extensions** icon on the left vertical menu to see the option to Install and Connect MongoDB.
 - c. Click the **green Install** button, then, you'll see a  **Leaf** icon on the left menu.
3. Click the new **Leaf** icon (MongoDB) in the left vertical menu of VS Code.
4. Click the **Connect String** option.



5. When prompted at the top of the screen, paste in the connection string you saved from earlier. Be sure to use your cluster's username: password and cluster name in the string:
`mongodb+srv://dbusername:mydogLovesCode876@cluster0.chwzb.mongodb.net/?retryWrites=true&w=majority`
6. When this works, you'll see the confirmation message: `Connected to: dbusername`
7. Under the connection, there should be now a **cluster** listed. Right-click on it to view options.



8. All the **documents** you created using the app will be visible there. Use the down arrow to view the cluster's contents: collections and documents.



9. Use **Cmd + Shift + P** for all MongoDB Command Palette options.