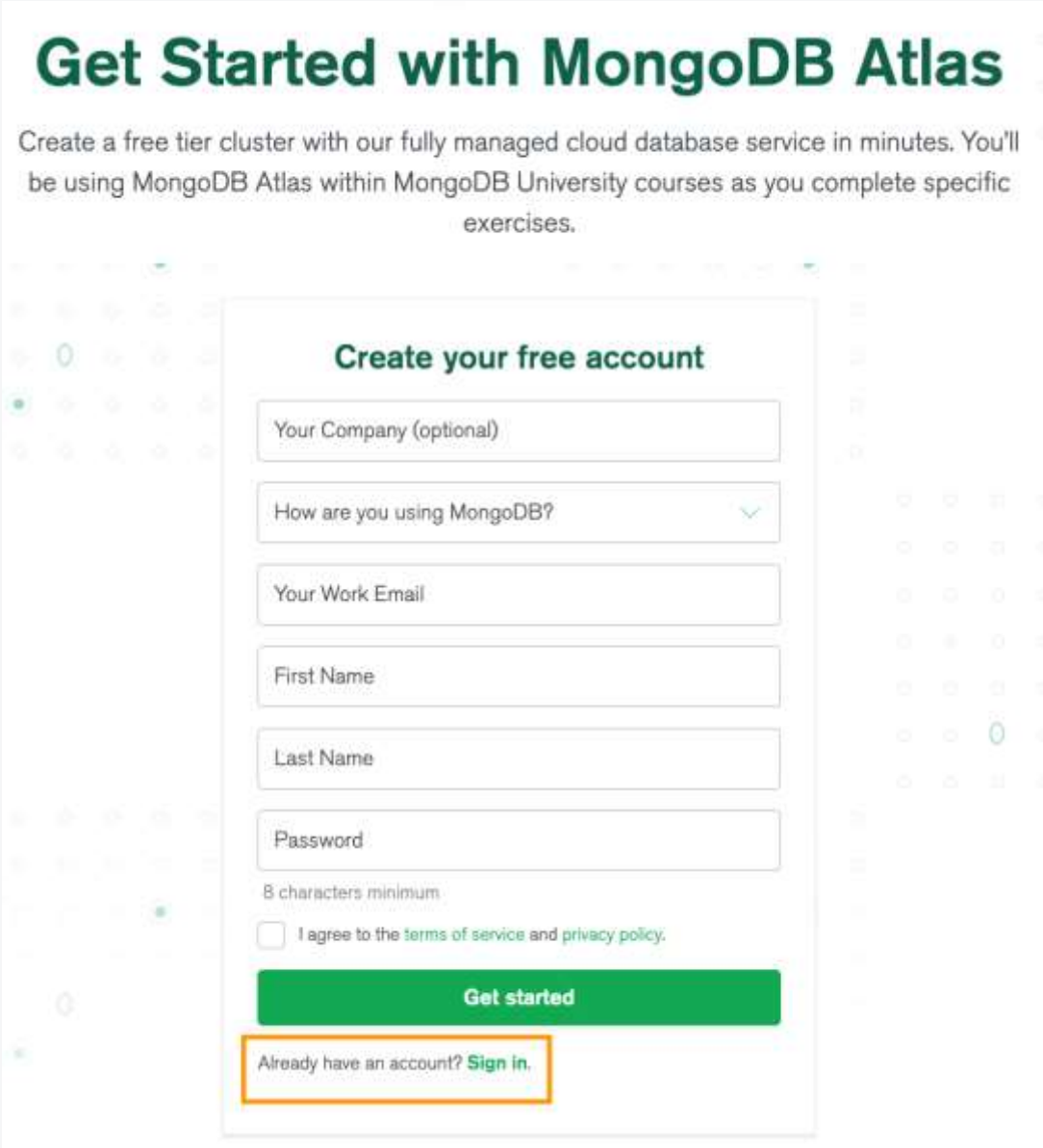
Lab: Create and Deploy an Atlas Cluster

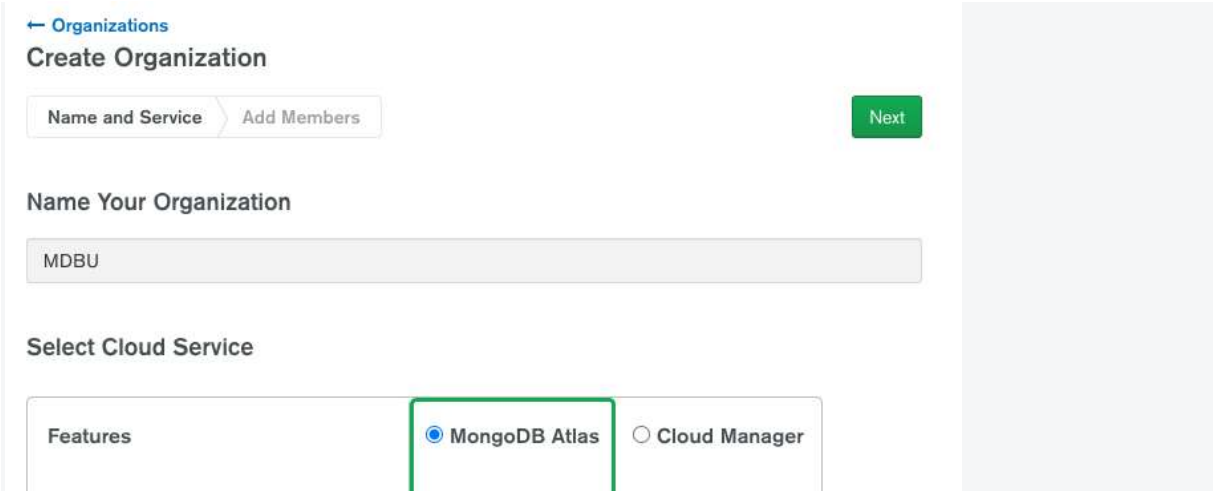


The following 10 easy steps will guide you in creating:

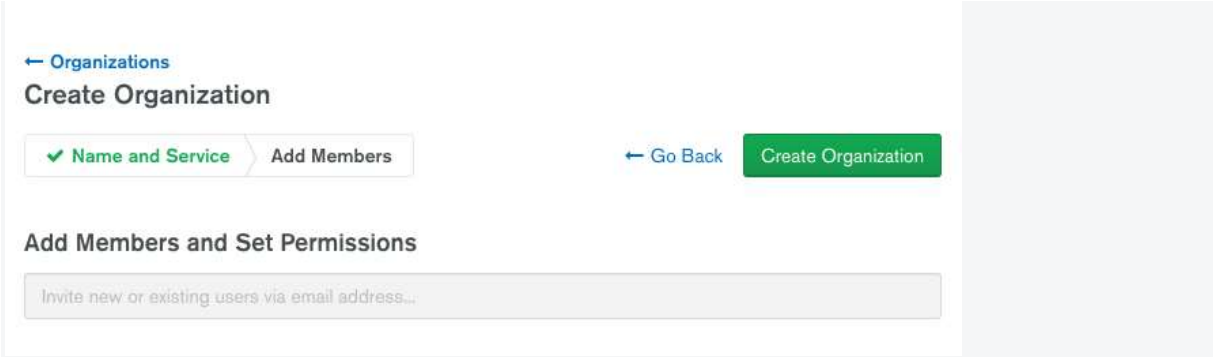
- an Atlas Organization named `MDBU`
- a Project within `MDBU` called `M001`
- a Free Tier Atlas cluster named `Sandbox`

1. Select **Create an Organization**

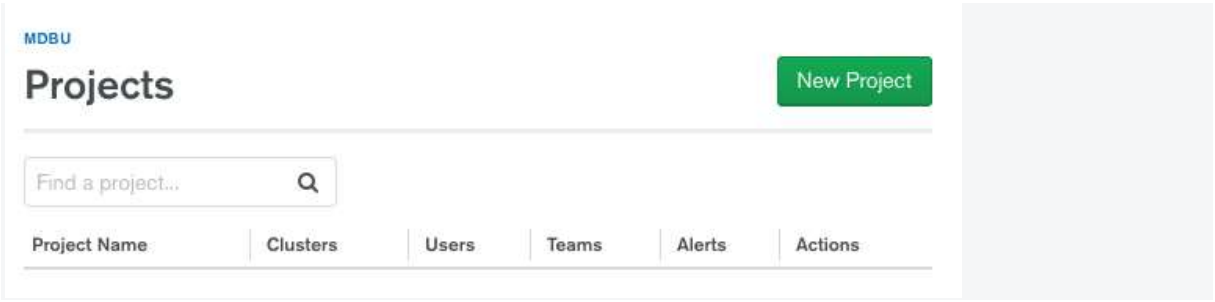
2. Name your Organization `MDBU`. Make sure that your cloud service is *Atlas*, then hit **Next**.



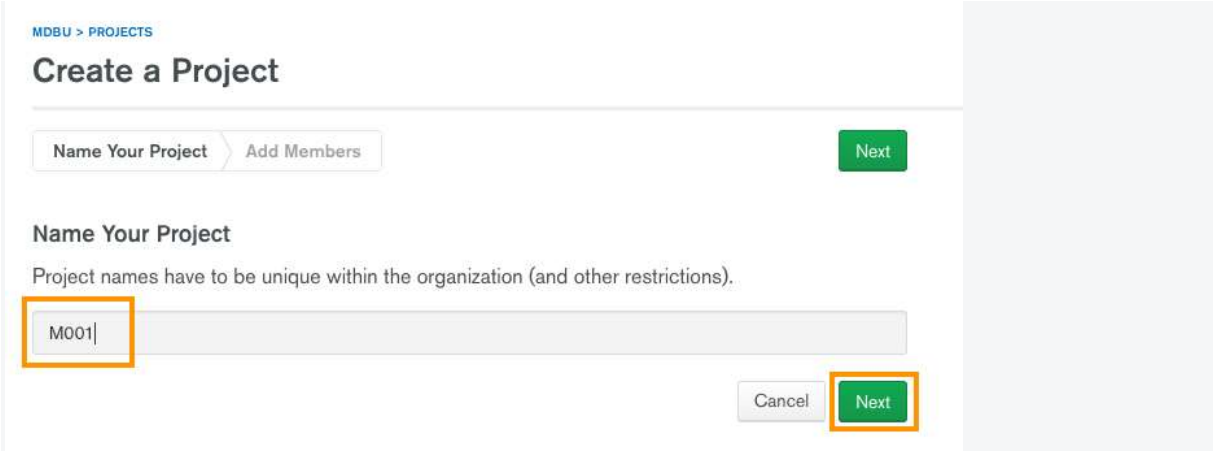
3. Hit **Create Organization**



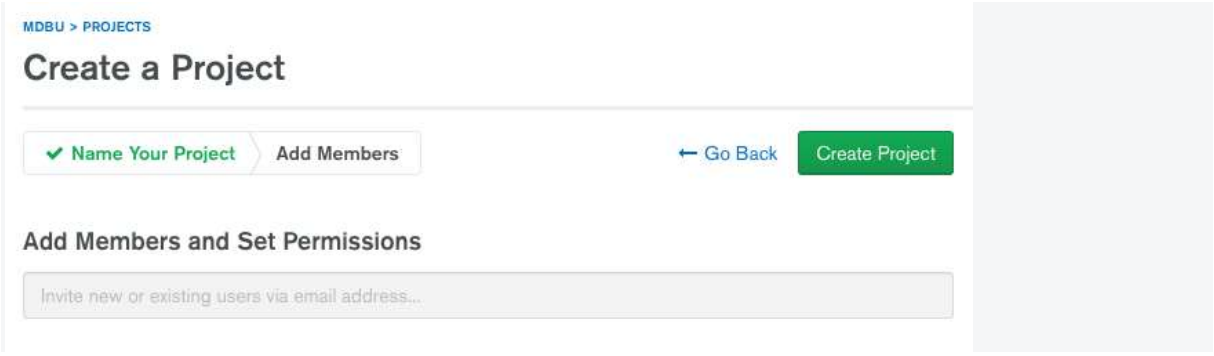
4. Hit **New Project**



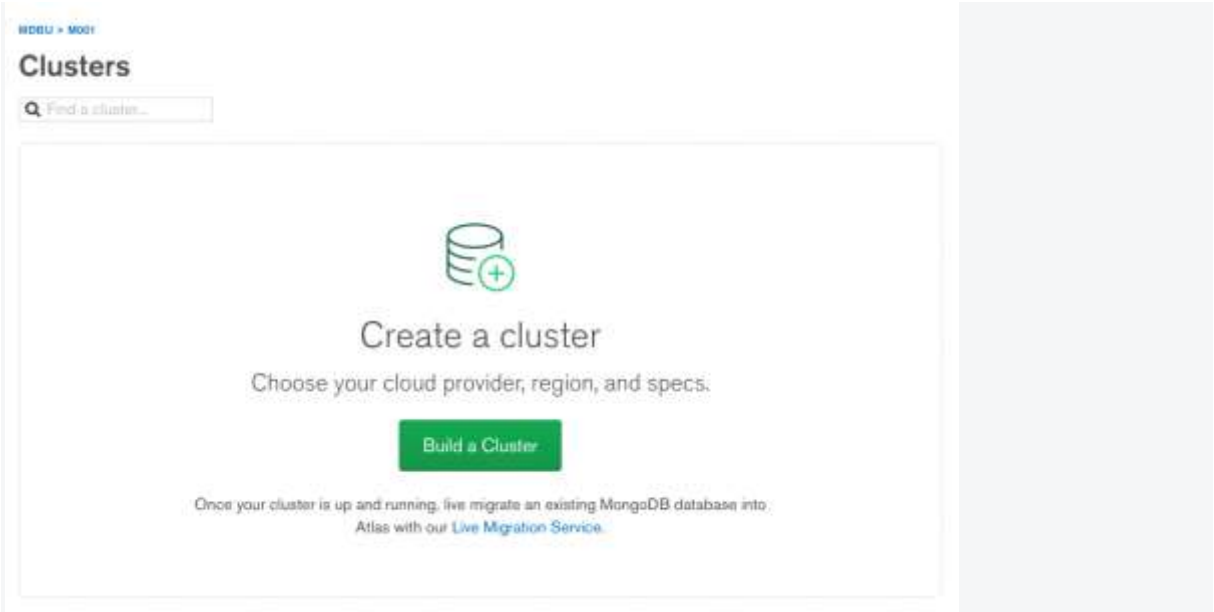
5. Name your Project `M001` and hit **Next**



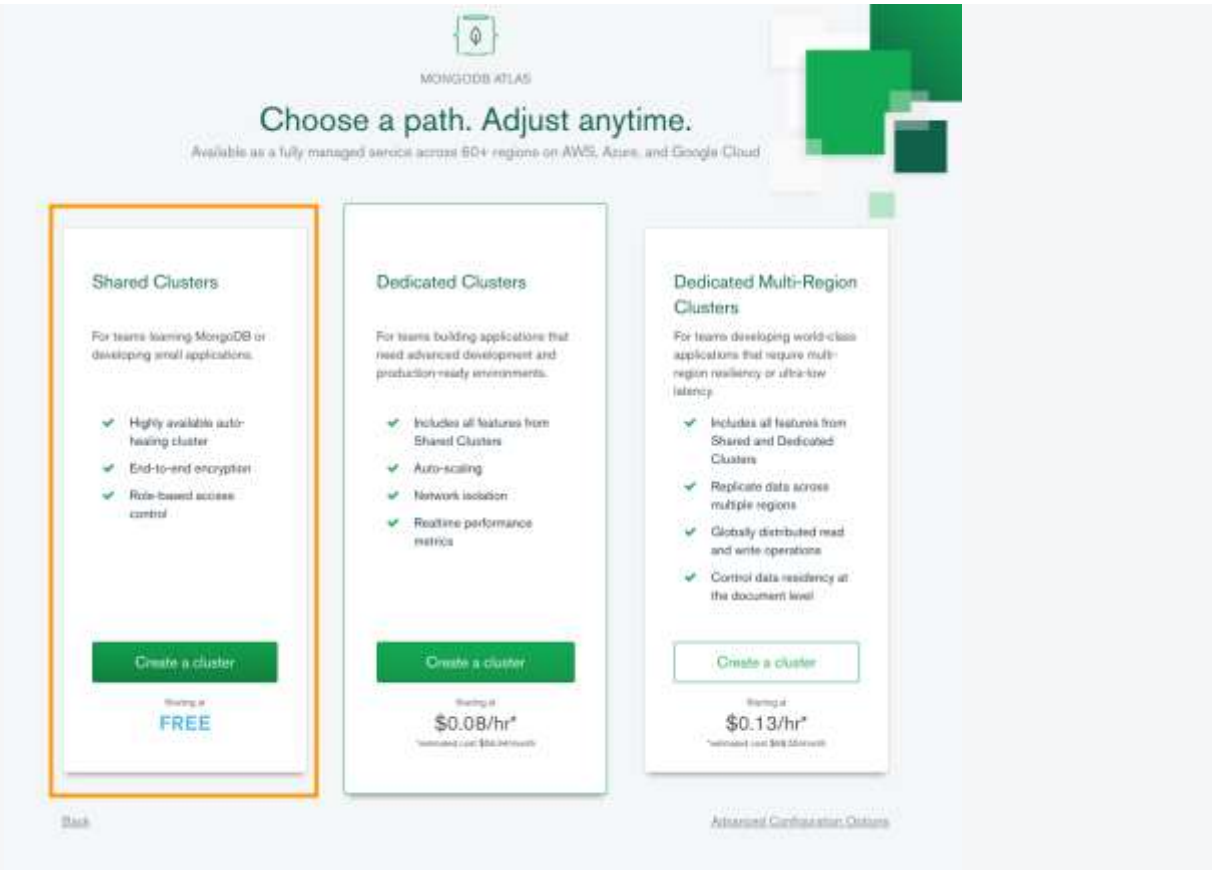
6. Select **Create Project**



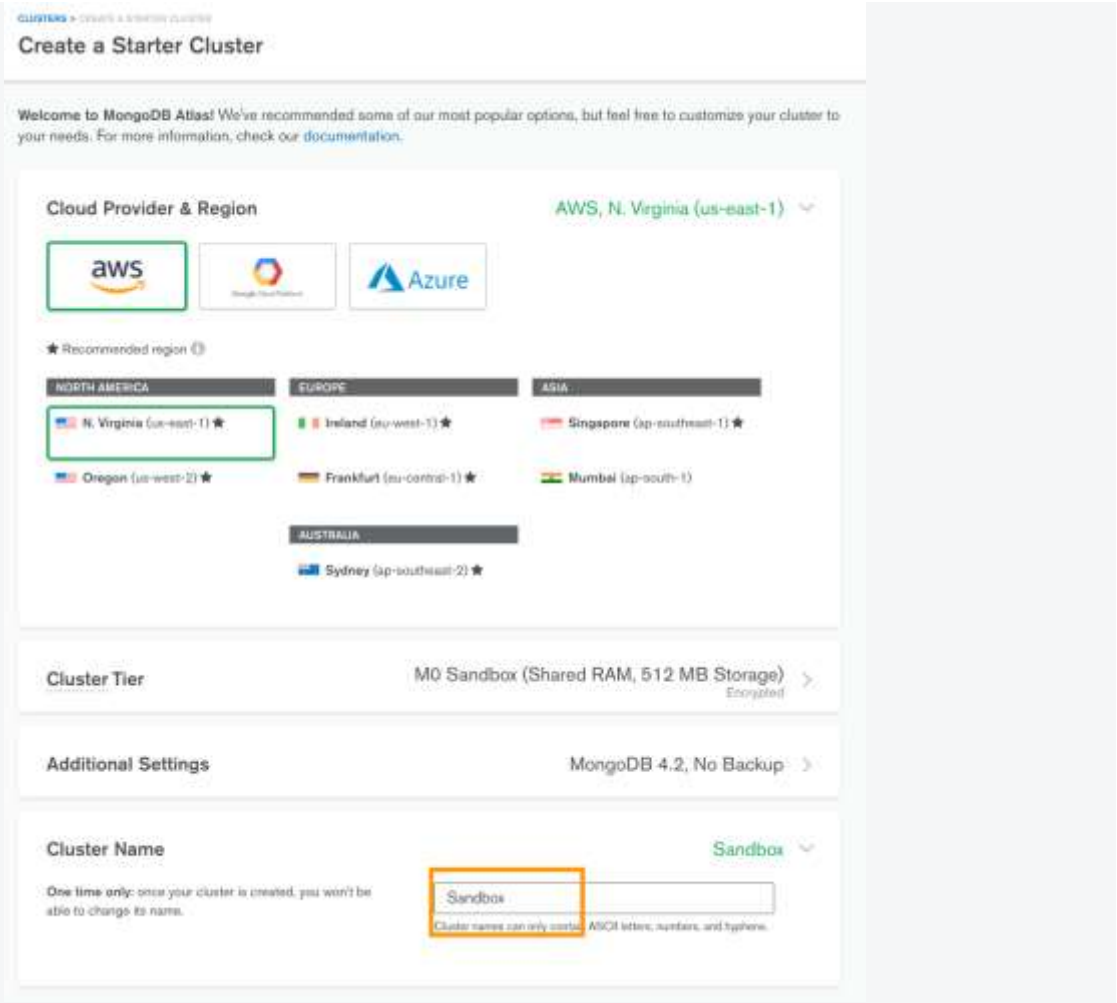
7. Select **Build a Cluster**



8. Select the left-most option that is **FREE** and hit **Create a cluster**

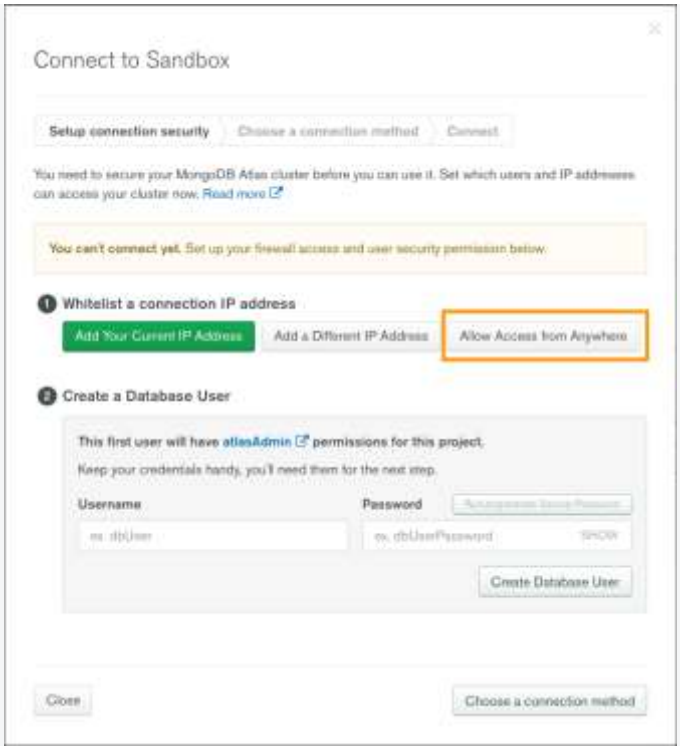


9. Select the region that is geographically closest to your location. On the bottom of the page change the cluster name to `Sandbox`. Create the cluster. *This step might take a minute or two to complete.*



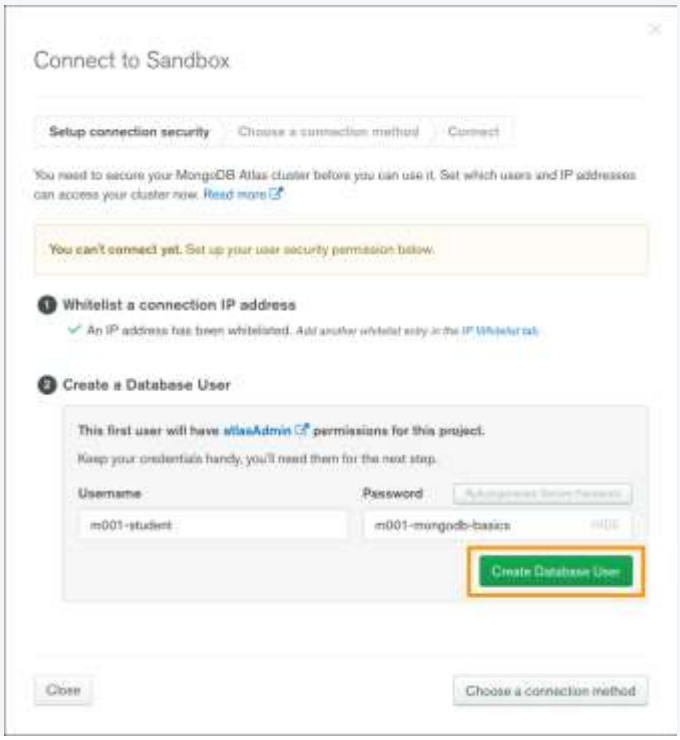
10. Now that you have an Atlas cluster you need to grant access to your IP Address and create a Database User.
    - Select **Connect** from the cluster view.

    - Select the *right-most* option **Allow Access from Anywhere** and confirm your selection by clicking on **Add IP Address**. Allowing access from anywhere is **not* a good security practice. Clusters that are used for production should **not** have this enabled.

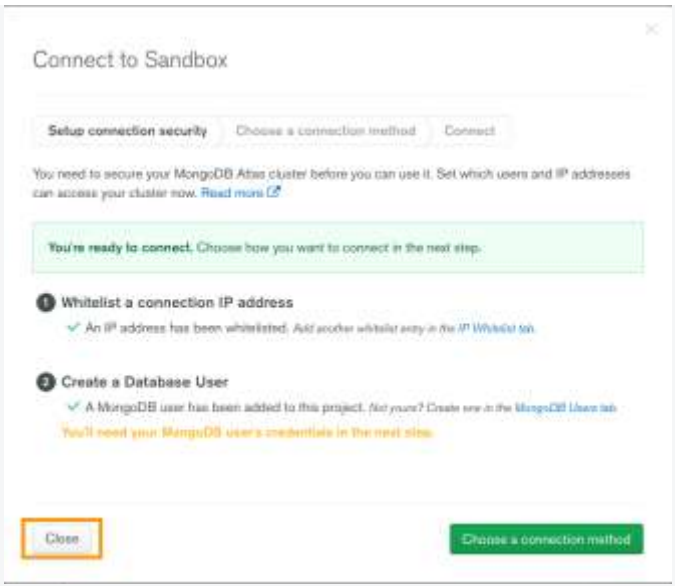


- Create a Database User
  - username: `m001-student`
  - password: `m001-mongodb-basics`

Click on **Create Database User**

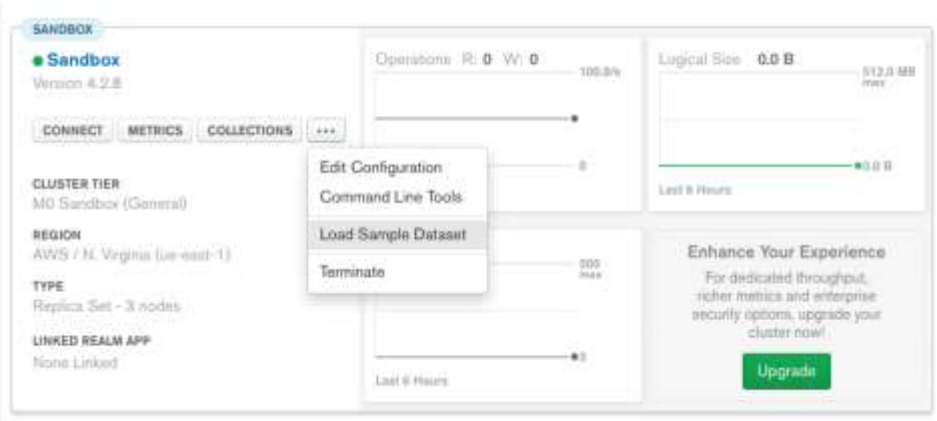


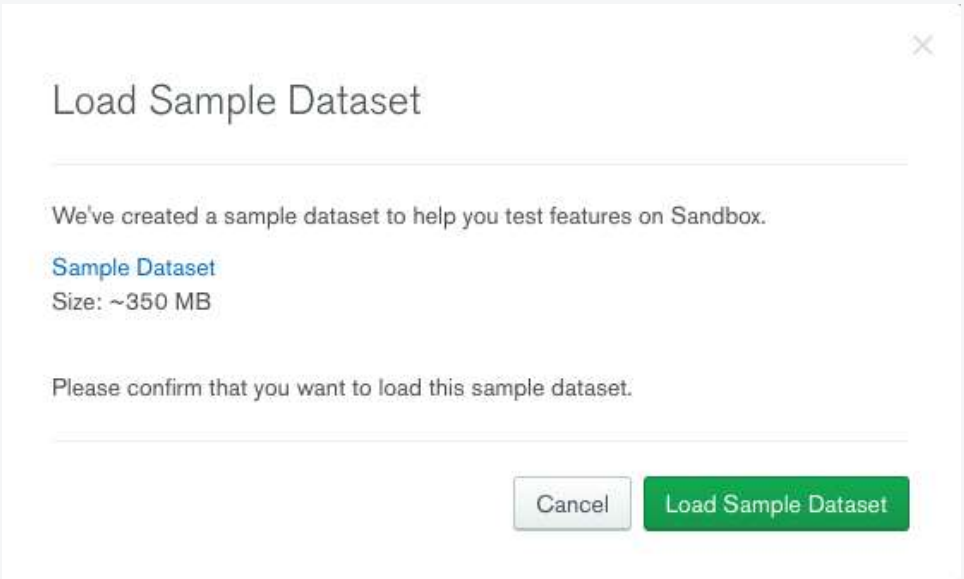
- **Close** the Connection menu at the *lower left corner* of the window.



Load the Sample Dataset

Select the **"..."** option in the cluster menu -> choose the **"Load Sample Dataset"** option, then confirm your choice.





When the dataset is loaded the graph labeled **"Logical Size"** on the right side of the screen should go up and display the size of the dataset that is above zero and below *512 MB*. Your graph may look different than the picture below.

Did the logical size of the dataset and the number of operations increase in your cluster view *similar* to how it did in this image?

Connect MongoDB with Python PyMongo