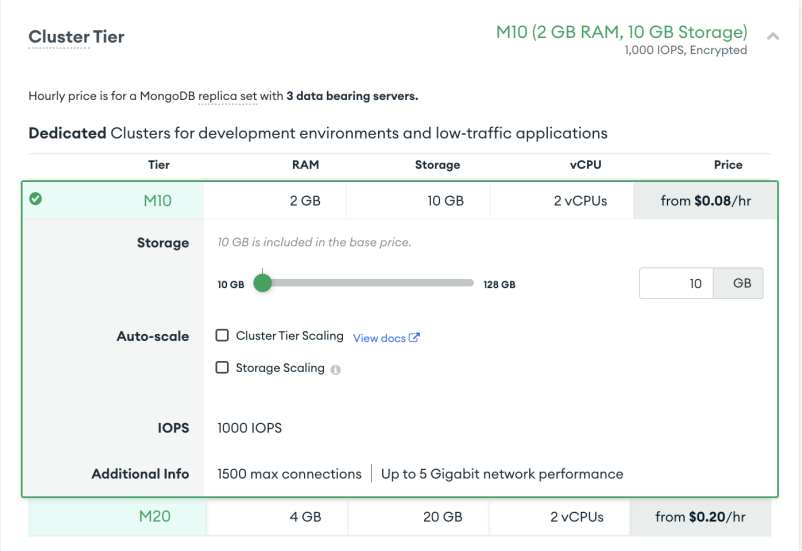
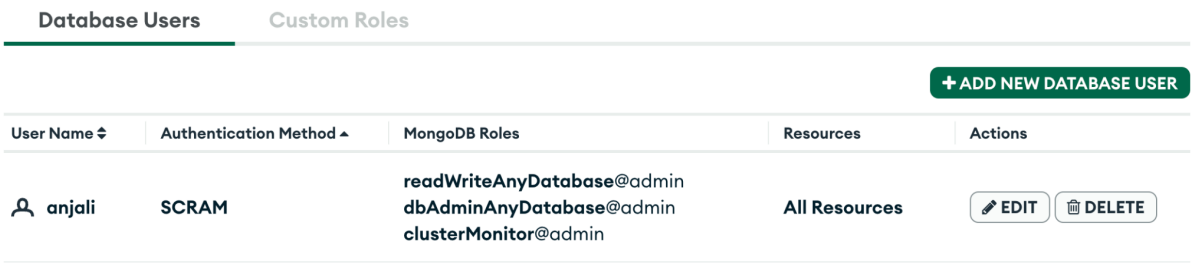
Procedure to Connect to Mongo-DB running on Atlas from Jupyter-Notebook.

Instance – Setup on the Atlas.

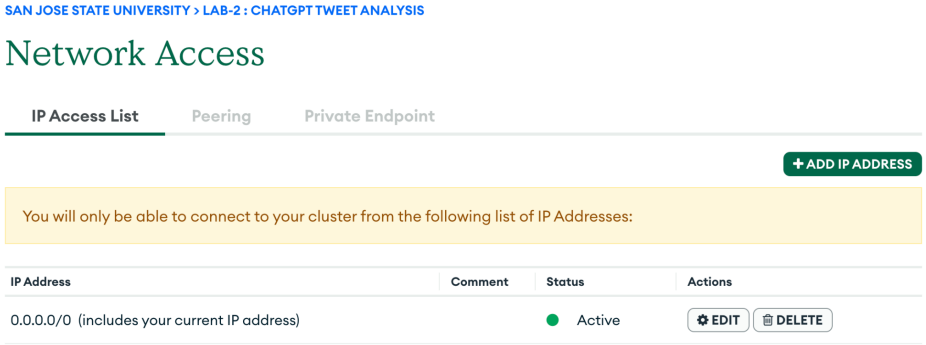
1. Setup instance on the Atlas. Following items need to be covered.
    a. Select the Tier for advanced monitoring and performance analysis. For this exercise, we create the “M10” tier cluster.



    b. Create User, and set the required roles for the database interaction. For this exercise, we assign the following roles to the user.



    c. Since multiple team-members will be interacting with the database, we set the incoming traffic from everywhere.



Database Connection with Jupyter-Notebook

2. Install the **pyomongo** library. Pymongo library allows interaction with the MongoDB database through Python.

```
!pip install pymongo
```

3. Import the **pyomongo** libraries to the jupyter notebook.

```
import pymongo
from pymongo import MongoClient
```

4. Create MongoClient, using the username and password which were used while creating mongo-Db (atlas) account. We also need to give the cluster name where our instance is running.

```
cluster = "atlascluster.vdyux8r.mongodb.net"
user = "anjali"
password = "mongopassword"
client = pymongo.MongoClient(f"mongodb+srv://{user}:{password}@{cluster}/test")
db = client['twitter']
```

5. We later used <collection.insert_many> api for the insert commands.

6. For reading data, we use <collection.aggreate[<conditions>]> api. And this returns output in json format.