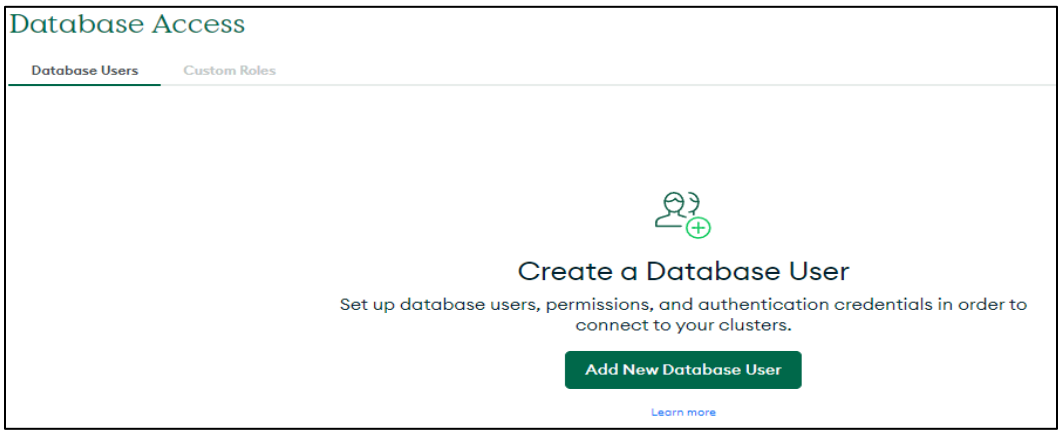
All about Mongodb

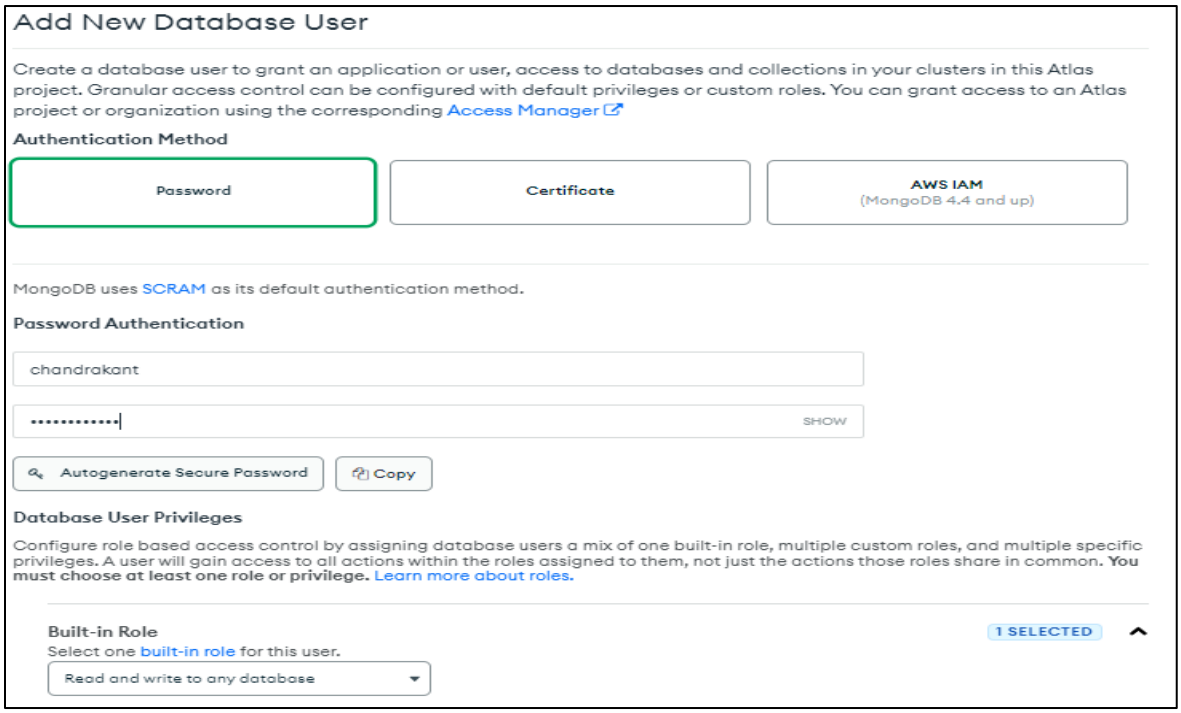
Open MongoDB URL :
https://www.mongodb.com/cloud/atlas/lp/general/try?utm_source=compass&utm_medium=product

Configure Your Database using this simple steps

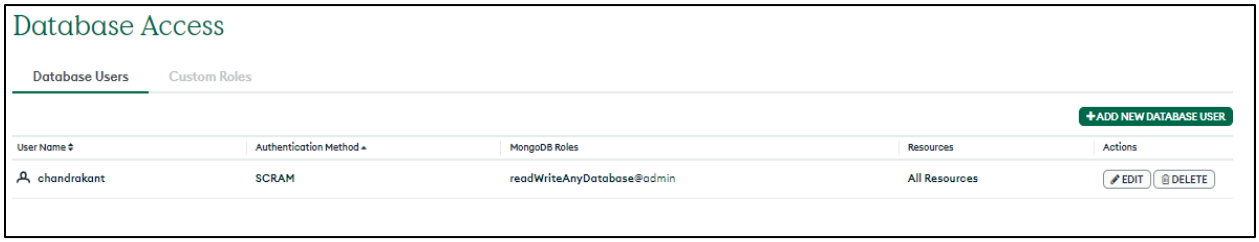
Database Access:



➔ **Click on "Add New Database User "**

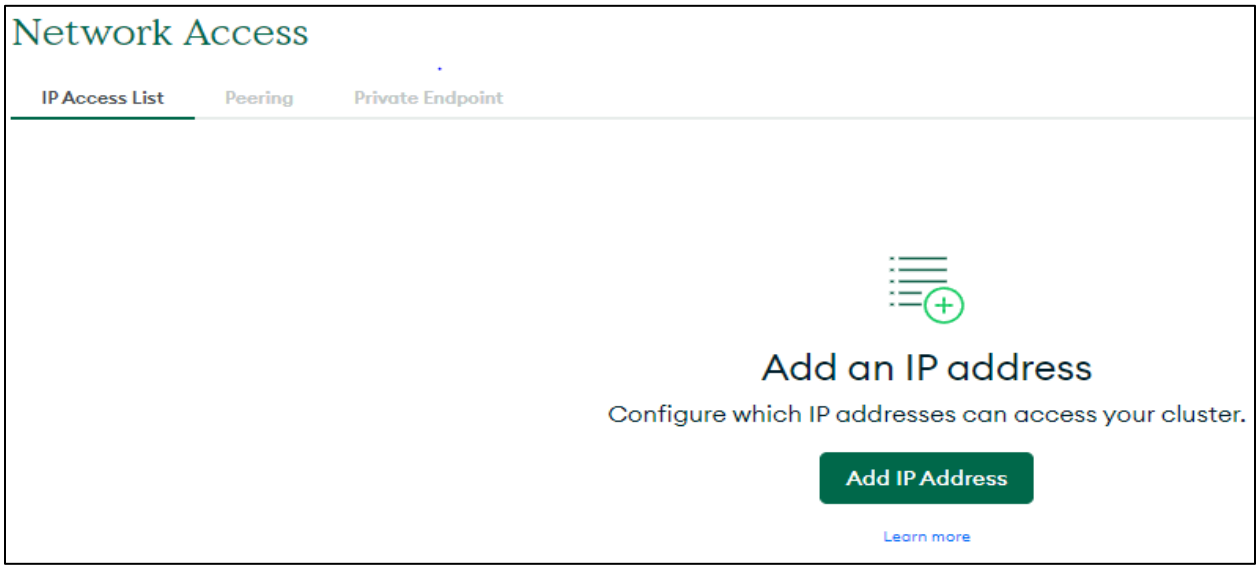


Click on “Add User”

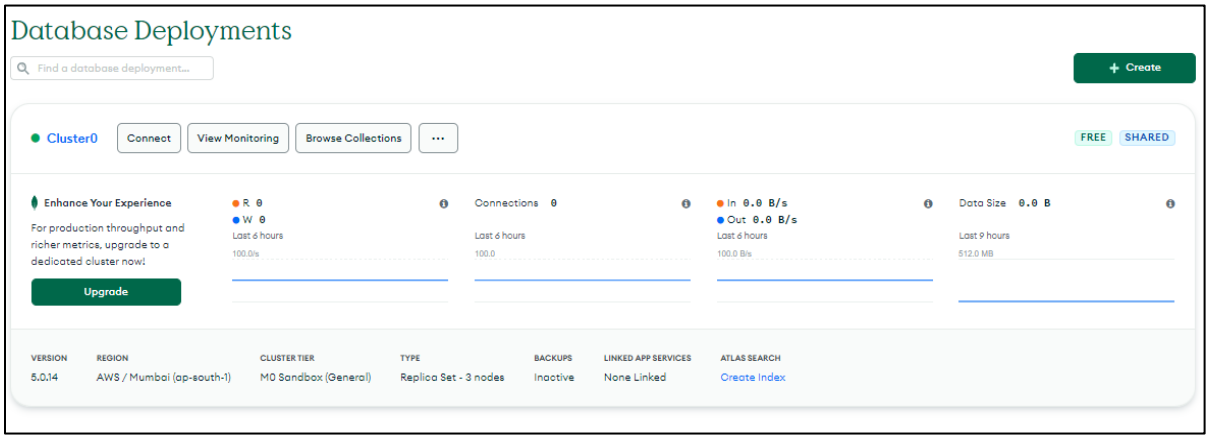


Network Access

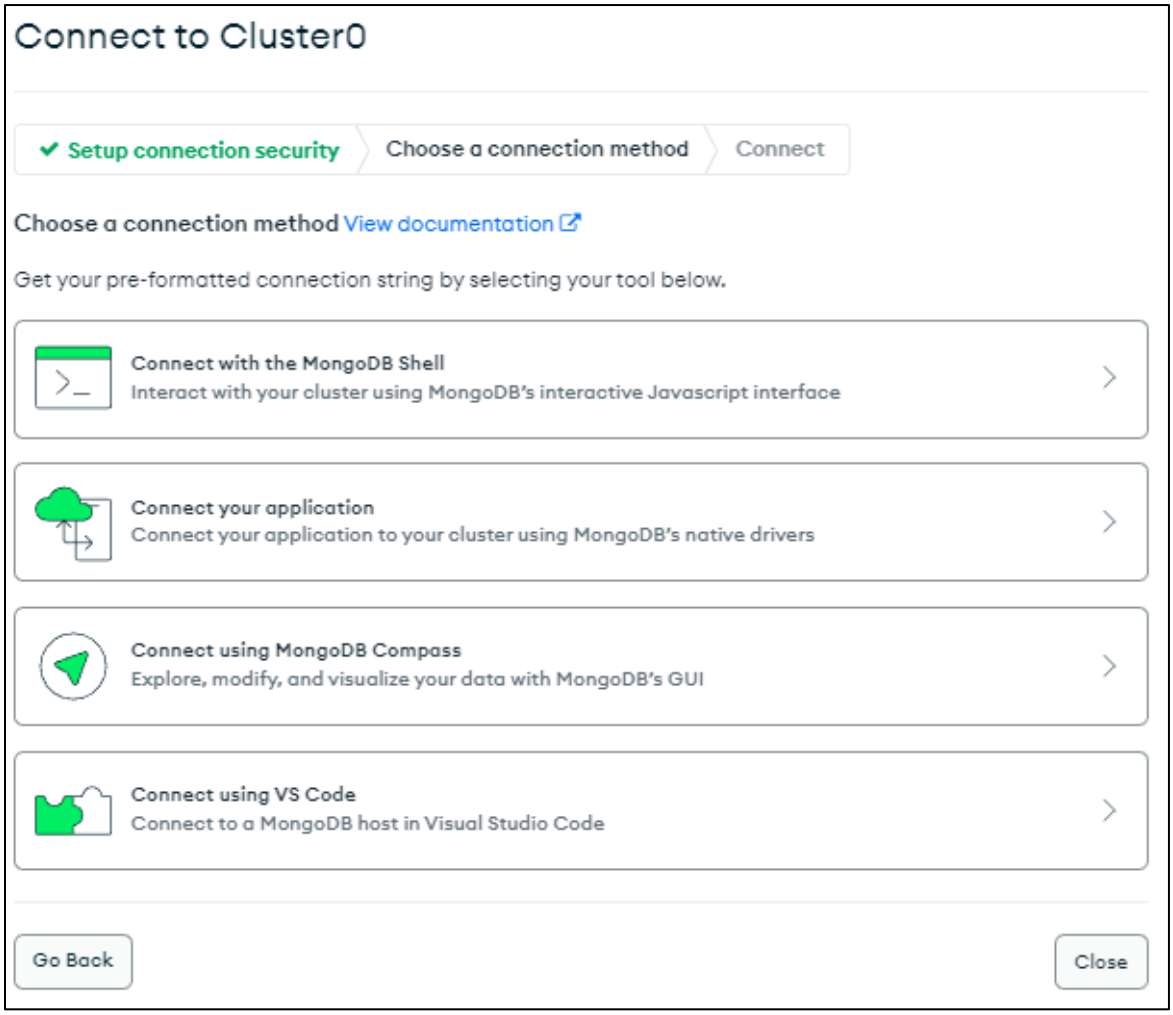
- > Click on “Add IP Address”



Database

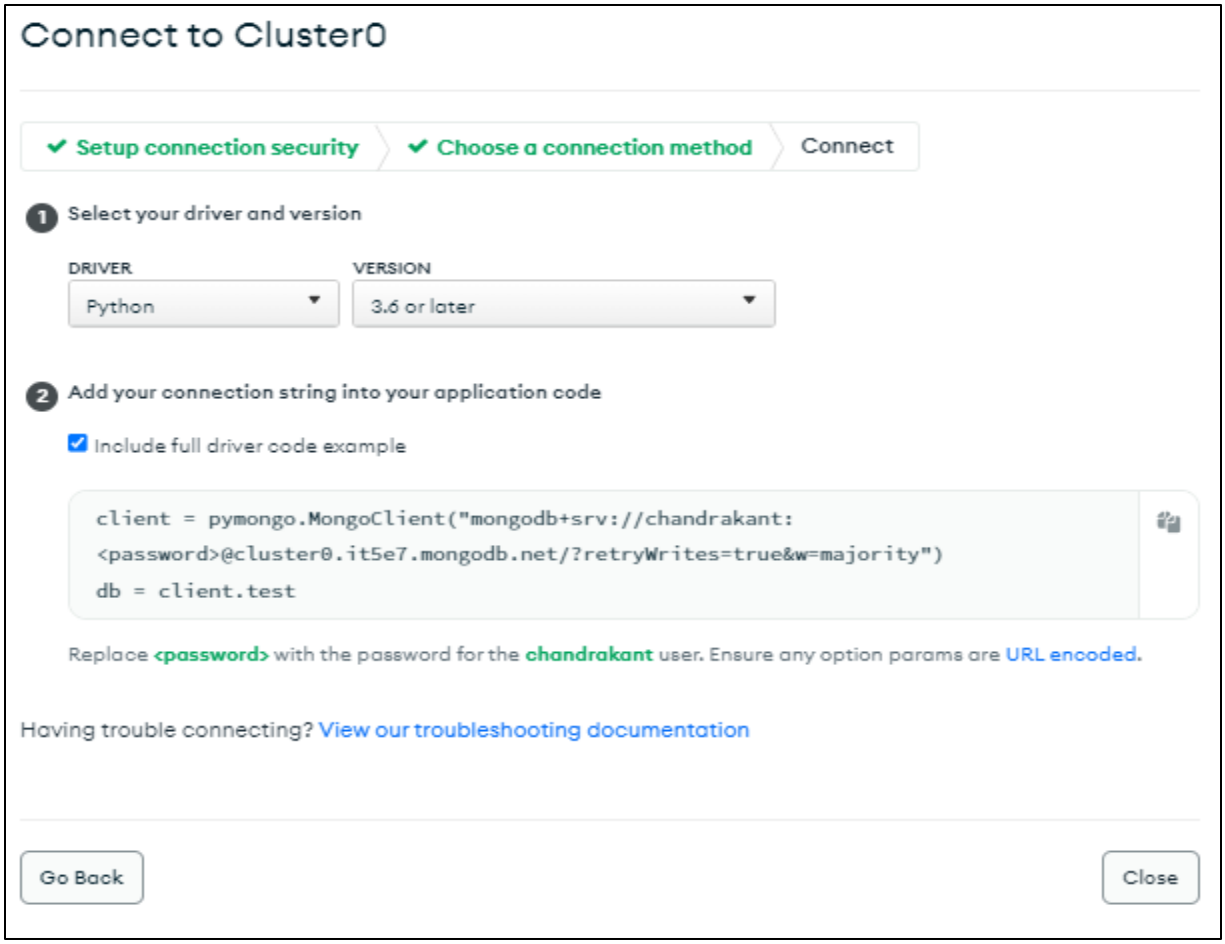


Click on -> Connet Your Application



Select Driver – Python

Version – 3.6 or Later


Connect to Cluster0
✔ Setup connection security
✔ Choose a connection method
Connect
1 Select your driver and version
DRIVER
Python
VERSION
3.6 or later
2 Add your connection string into your application code
Include full driver code example
client = pymongo.MongoClient("mongodb+srv://chandrakant:
<password>@cluster0.it5e7.mongodb.net/?retryWrites=true&w=majority")
db = client.test
Replace <password> with the password for the chandrakant user. Ensure any option params are URL encoded.
Having trouble connecting? View our troubleshooting documentation
Go Back
Close

In Jypyter Notebook

```
pip install pymongo
```

```
import pymongo
```

```
client = pymongo.MongoClient("mongodb+srv://chandrakant:chandrakant1@cluster0.it5e7.mongodb.net/?retryWrites=true&w=majority")
db = client.test
```

```
pip install dnspython
```

```
Requirement already satisfied: dnspython in c:\programdata\anaconda3\lib\site-packages (2.2.1)Note: you may need to restart the
kernel to use updated packages.
```

To Create a Database

```
database_name = "student" #data base name

student_database = client[database_name]
```

To Create Collection

```
collection = "student_details"
```

```
student_detail_collection = student_database[collection]
```

To Create Document Inside Collection

```
student_data = {
    "Name":"Chandrakant",
    "College":"BoardInfinity",
    "Address":"NaviMumbai"
}
```

```
student_detail_collection.insert_one(student_data)
```

```
<pymongo.results.InsertOneResult at 0x2a3a5f6a3a0>
```

To Fetch Details from Mongodb

```
student_cursor = student_detail_collection.find()
```

```
student_cursor.next()
```

```
{'_id': ObjectId('63b0abb7236e0efb81dea3b0'),
 'Name': 'Chandrakant',
 'College': 'BoardInfinity',
 'Address': 'NaviMumbai'}
```

```
for student_details in student_detail_collection.find():
    print(student_details)
```

```
{'_id': ObjectId('63b0abb7236e0efb81dea3b0'), 'Name': 'Chandrakant', 'College': 'BoardInfinity', 'Address': 'NaviMumbai'}
```

Insert Multiple Records in Database

```
student_data_list = [
    {"First_name":"Chandrakant","Last_name":"Thakur","Designation":"Data Scientist"},
    {"city":"Mumbai","First_name":"Nilesh","college":"BoardInfinity"},
    {"First_name":"Binod","address":"Jharhand","college":"JH"}
]
```

```
student_detail_collection.insert_many(student_data_list)
```

```
<pymongo.results.InsertManyResult at 0x2a3a8f3cb50>
```

```
for student_details in student_detail_collection.find():
    print(student_details)
```

```
{'_id': ObjectId('63b0abb7236e0efb81dea3b0'), 'Name': 'Chandrakant', 'College': 'BoardInfinity', 'Address': 'NaviMumbai'}
{'_id': ObjectId('63b0b41c76c1ce02db4534f6'), 'First_name': 'Chandrakant', 'Last_name': 'Thakur', 'Designation': 'Data Scientis
t'}
{'_id': ObjectId('63b0b41c76c1ce02db4534f7'), 'city': 'Mumbai', 'First_name': 'Nilesh', 'college': 'BoardInfinity'}
{'_id': ObjectId('63b0b41c76c1ce02db4534f8'), 'First_name': 'Binod', 'address': 'Jharhand', 'college': 'JH'}
```

How to Apply Filters

```
query = {"First_name":"Chandrakant"}
```

```
for student_details in student_detail_collection.find(query):
    print(student_details)
```

```
{'_id': ObjectId('63b0b41c76c1ce02db4534f6'), 'First_name': 'Chandrakant', 'Last_name': 'Thakur', 'Designation': 'Data Scientis
t'}
```

Output:-

Final Output in Mongodb Atlas