IMPORT CSV FILE USING MONGOIMPORT IN MONGODB ATLAS

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Objective:

In this section of the tutorial, we will demonstrate how to upload a document to the MongoDB NoSQL database.

Software Requirements: Bellow, there is the list of the required to build.

• MongoDB (7.0) +

Download the iris dataset.

Download the iris dataset and save the file as iris.csv.

https://gist.github.com/netj/8836201file-iris-csv

Note: In the github repository https://github.com/DuvanSGF/MongoDBWorkSpaceGithub/ you will find all the source files and the iris dataset file.

1. Create the database.

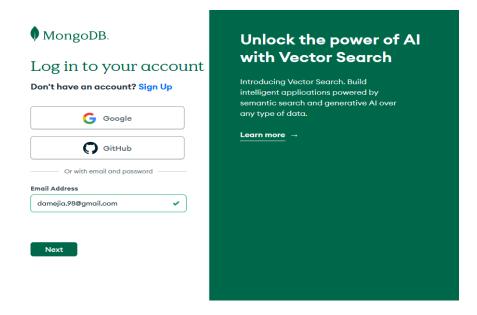
The process of database creation is:

- 1. Create a login role.
- 2. Create a database.
- 3. Import the data.
- 4. 3 NoSQL Database

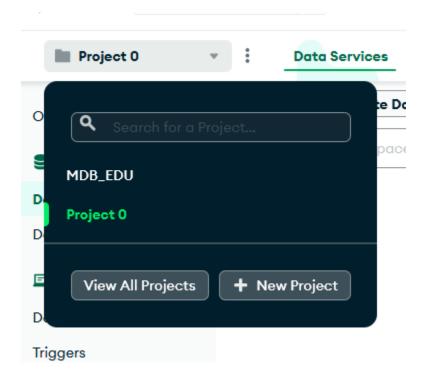
1.1. NoSQL Database

Register MongoDB Atlas

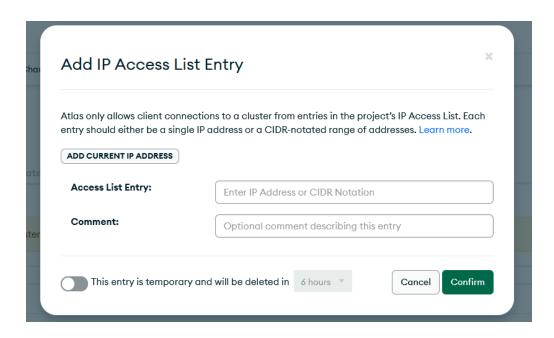
Initially, we must establish an account on MongoDB Atlas.



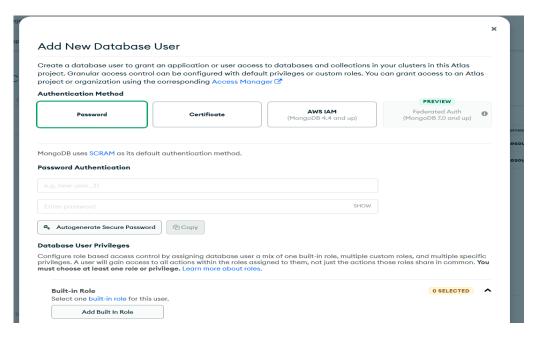
Then, we need to create a new project, and then we establish a shared cluster.



We need to add the IP to the network access; you can include localhost or another IP if you want to establish a remote connection.

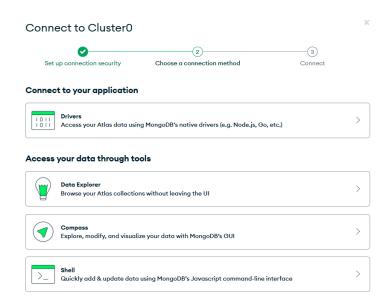


Also, we need to add a user. You can either use your own user or utilize the default user "Admin."



Establish a remote connection

To initiate communication with the cluster, we need to select the option via the SHELL, follow the steps, and finally, copy the command and paste it into a new terminal window.



Run the MongoDB client

To run MongoDB client, open a new terminal Window and Execute the mongo command.

```
mongosh mongodb+srv://<credentials>@cluster0.gcyrmww.mongodb.net/ --apiVersion 1 --username admin
Enter password: ********

Current Mongosh Log ID: 65bd14b287a442a135532e0f

Connecting to: mongodb+srv://<credentials>@cluster0.gcyrmww.mongodb.net/?appName=mongosh+2.1.3

Jsing MongoDB: 6.0.13 (API Version 1)

Jsing Mongosh: 2.1.3

Atlas atlas-yzclwj-shard-0 [primary] test>
Atlas atlas-yzclwj-shard-0 [primary] test>

Atlas atlas-yzclwj-shard-0 [primary] test>
```

1.1.1 Create the database

To create a MongoDB database, employ the command to use database name. If the database does not exist, it is created, else it is set as the default database (the database in use).

use iris

You will see.

```
Atlas atlas-yzclwj-shard-0 [primary] test> use iris switched to db iris
```

1.1.2 Create a collection

In MongoDB, a collection is a set of documents, which is like a table in a relational database. To create a collection, use the command db.createCollection("collection name"). The keyword db is the database in use (iris).

```
db.createCollection("iris")
```

The server must return a {"ok":1} message.

```
Atlas atlas-yzclwj-shard-0 [primary] iris> db.createCollection("iris") { ok: 1 }
```

1.1.3 Import data from the iris.csv file

To import the data from the iris csv file, use the command mongoimport.

>mongoimport --type csv --headerline --db iris --collection iris --file C:\Users\sqlab\Documents\Data\iris.csv --uri mongodb+srv://admin:admin321@cluster0.gcyrmww.mongodb.net/

The terminal window will be something like this.

```
C:\Users\sqlab>mongoimport --type csv --headerline --db iris --collection iris --file C:\Users\sqlab\Document \
s\Data\iris.csv --uri mongodb+srv://admin:admin321@cluster0.gcyrmww.mongodb.net/
2024-02-02T22:06:47.313+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.gcyrmww.mongodb.net/
2024-02-02T22:06:48.554+0530 150 document(s) imported successfully. 0 document(s) failed to import.

C:\Users\sqlab>_
```

1.1.4 See the records of the iris table

To see all the documents of the iris collection execute the db.collection_name.find() command:

db.iris.find()

```
mongosh mongodb+srv://<credentials>@clusterO.gcyrmww.mongodb.net/
Atlas atlas-yzclwj-shard-0 [primary] iris> db.iris.find()

{
    _id: ObjectId('65bd1a1ffff333e9283a0ac73'),
    sepal: { length: 4.9, width: 3 },
    petal: { length: 1.4, width: 0.2 },
    variety: 'Setosa'
},

{
    _id: ObjectId('65bd1a1ffff333e9283a0ac74'),
    sepal: { length: 5.1, width: 3.5 },
    petal: { length: 1.4, width: 0.2 },
    variety: 'Setosa'

Atlas atlas-yzclwj-shard-0 [primary] iris>
```