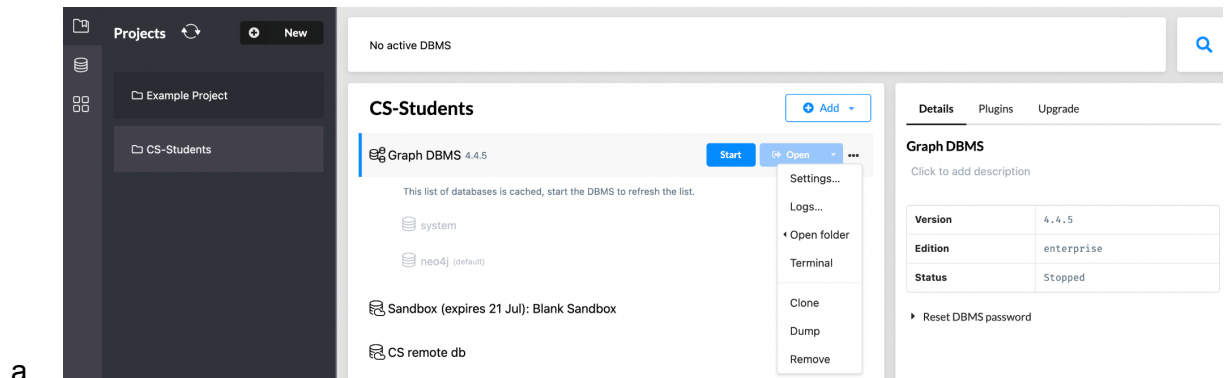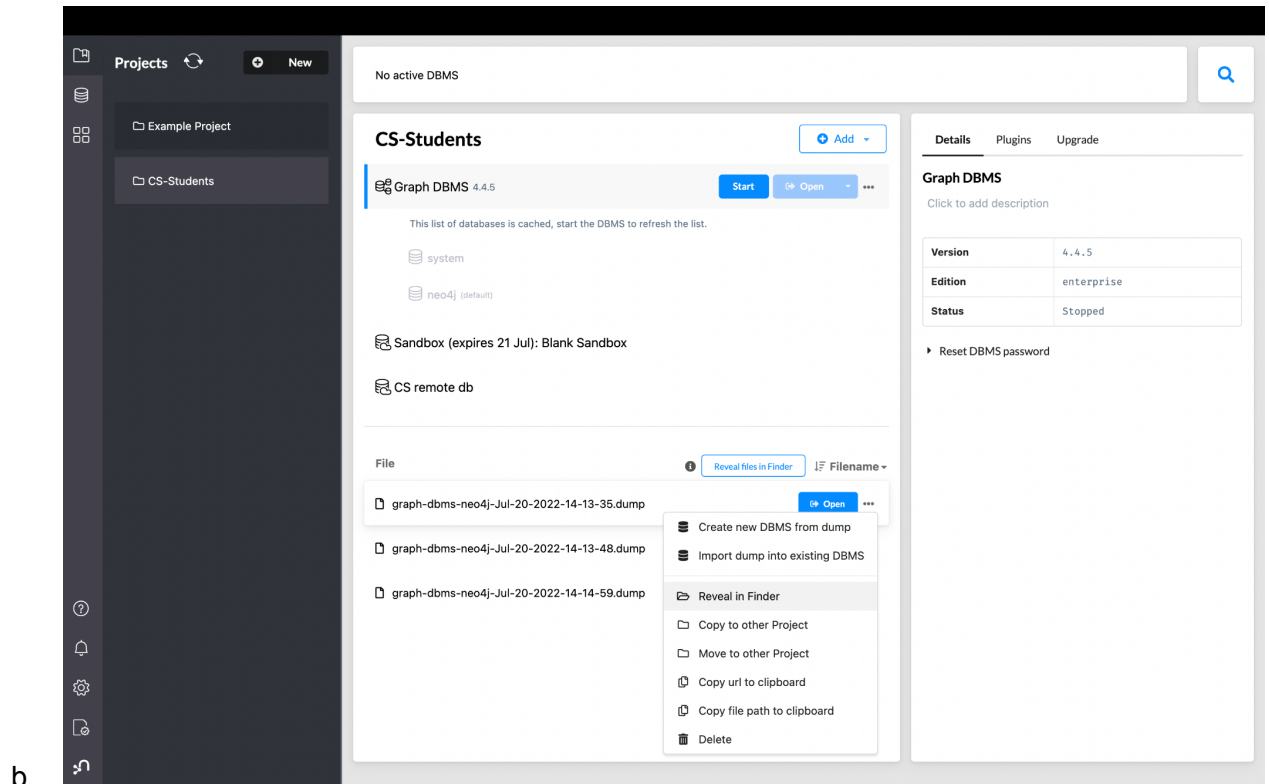**This guide will show you how to host a local DBMS on Neo4J on the cloud using AuraDB. By connecting to the AuraDB via a "Connection URI", you can have your data hosted and query it from any machine (including expanse!).**

1. Create an AuraDB instance:
   a. https://neo4j.com/cloud/platform/aura-graph-database/
   b. https://console.neo4j.io/#databases
   c. Remember the username and password, it is used for basically anything you need to do with your instance.
2. If you already have a local DBMS with data that you want to transfer over, create a dump file for it.
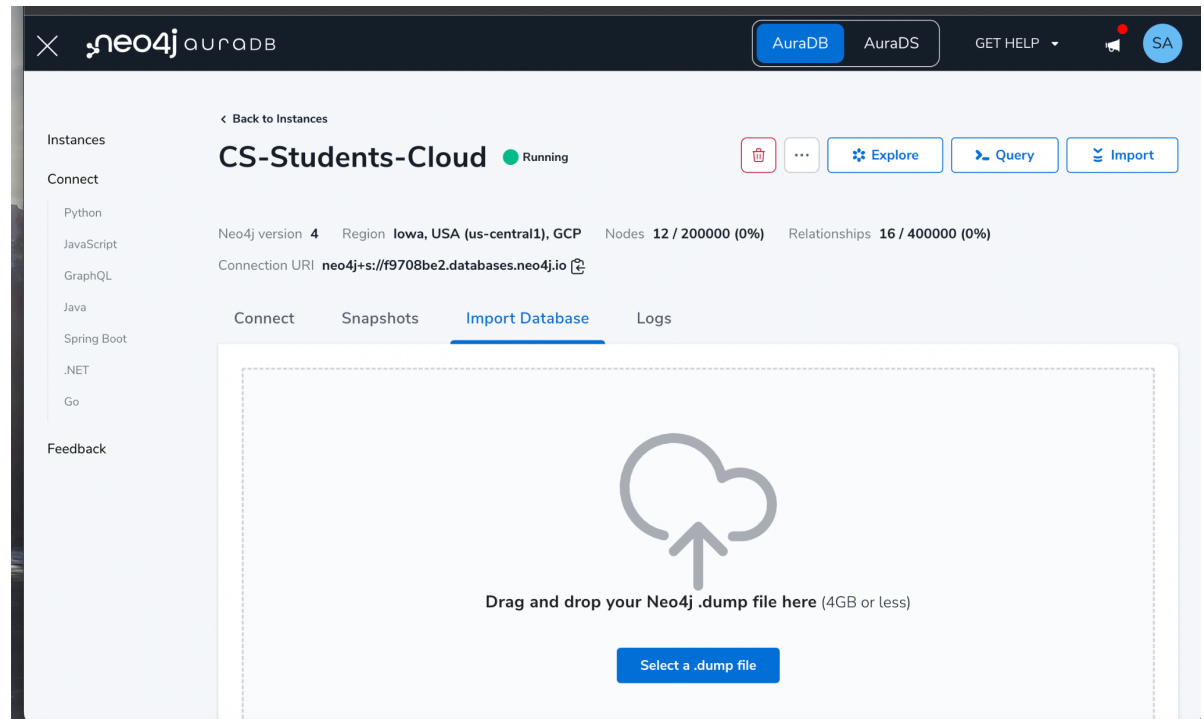
   a.

   i. Click "dump"

   b.

   i. Navigate to the dump file as shown above
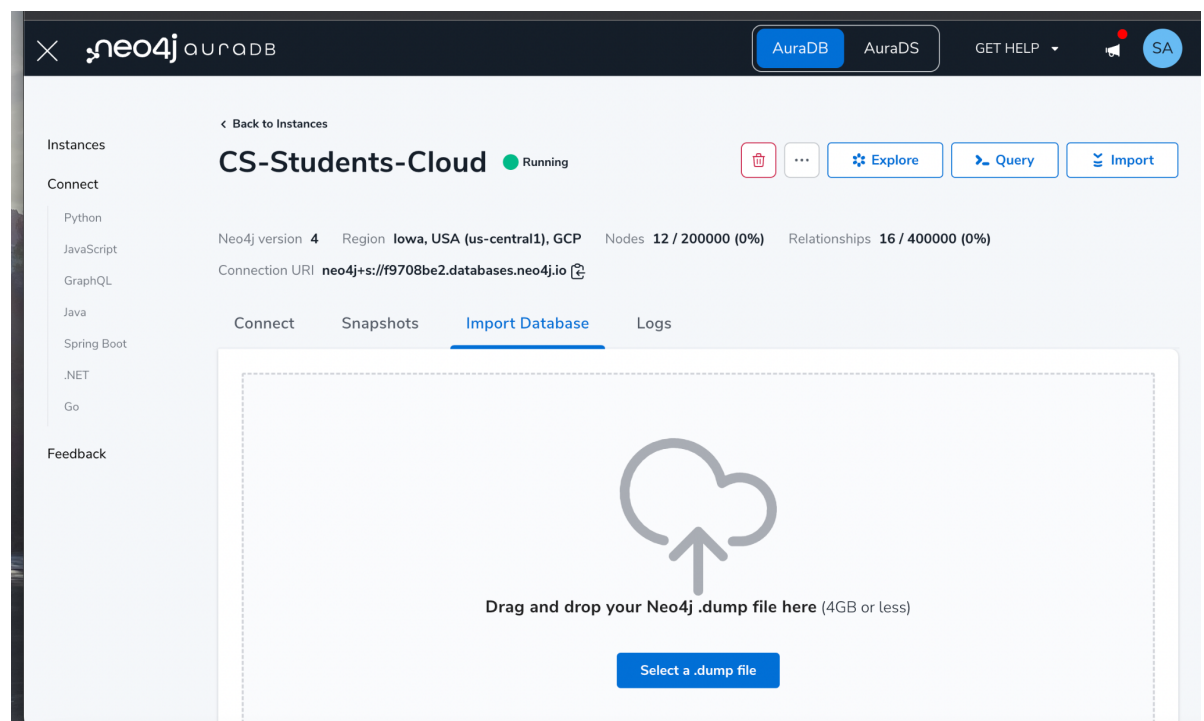
3. Upload the dump file to the AuraDB instance
    a. Click on the instance here: https://console.neo4j.io/#databases

    b.
        i. Go to the "Import Database" tab
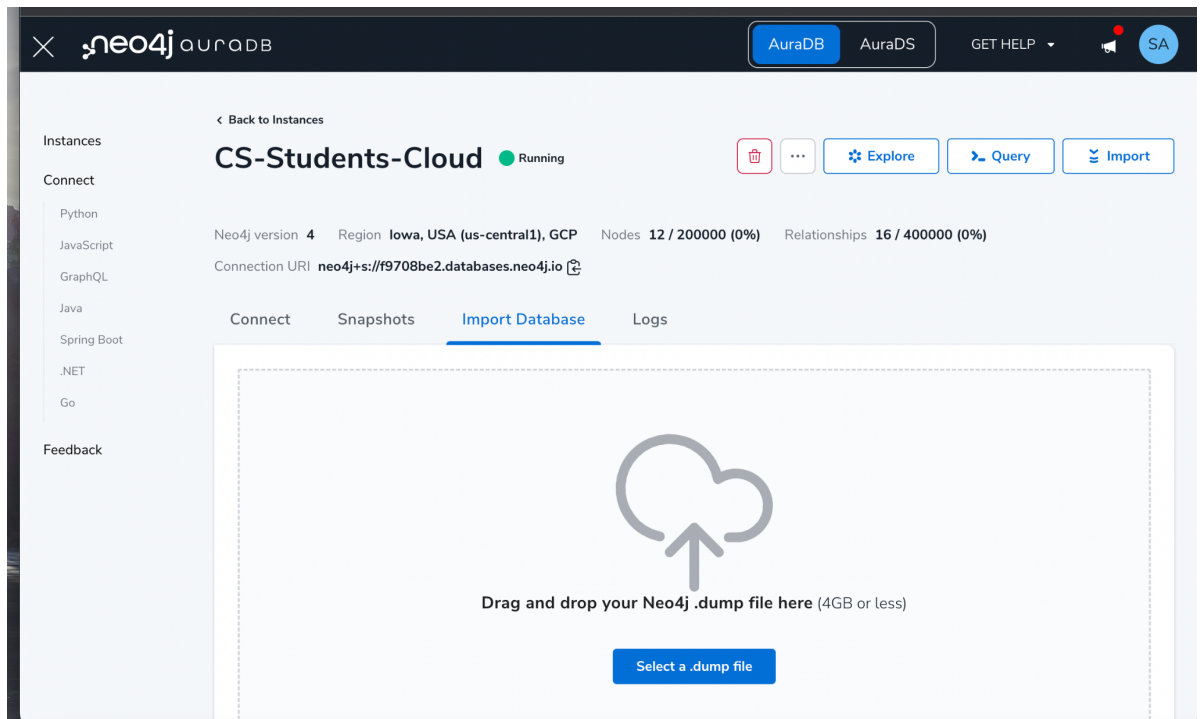   ii. Upload your dump file
4. Get the connection URI from the AuraDB instance

    a.
        i. The connection URI is also in this picture

5. Query by connecting to that URI

a.
   i. You can try some basic queries by just hitting the "Query" button
b. For a jupyter notebook:
   i. import pandas as pd
      from py2neo import Graph
      graph = Graph("<YourConnectionURI>", auth=("neo4j", "<YourPassword>"))
      - You should be able to query the graph now

You can see an example notebook for my database (hosted on AuraDB) here:
https://github.com/sdsc-hpc-students/REHS2022/blob/main/Sahil-Samar-REHS/Query-CS-Students.ipynb