speo4j graphsummit

Workshop Preparation



Preparation for the Graph Summit Workshops

Thank you for your interest in the Graph Summit Workshops. To ensure the best experience, we would encourage you to prepare for the sessions by following the contents of this document.

There are two workshops, and you can find checklists below to follow for whichever one you have chosen to attend (you can change your mind!)

You will need a Neo4j Database to work with in either workshop, and there are two ways to get that setup. Neo4j Sandbox provides a free online database instance that will expire within 3 days. Neo4j Desktop is an application that will run on your laptop, doesn't expire and can subsequently be used for development.



If you are using the Sandbox option, you will need to do this within 3 days of the workshop to ensure it doesn't expire beforehand, and you will need to be able to access port 7687 through your machine. Desktop has no constraints and can be setup as early as you want.



If you have any problems with the instructions in this document, at each Graph Summit there is an 'Ask the Experts' area where you can feel free to ask any questions and get help.



Checklists

Please use these to ensure you are all setup for the workshop you are interested in.

Checklist – Architecting Innovative Graph Applications

Either Setup Environment in Aura Free	
or Setup Environment in Sandbox	
Or Setup Environment in Desktop	
Graph Applications Workshop-Ingest	

Checklist – Enabling GenAl Breakthroughs with Knowledge Graphs

Either Setup Environment in Sandbox	
Or Setup Environment in Desktop	
GenAl Workshop-Colab	

Aura Free

This section gives instructions on how to setup the Neo4j Aura Free environment ready for use with the workshop.



If you *already* have an Aura Free environment, it will be wiped for the workshop. If you are not happy with that, please use either the Sandbox or Desktop instructions.



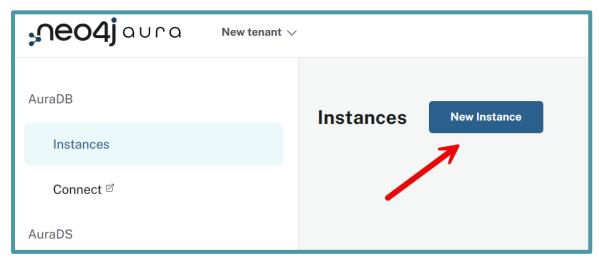
Neo4j Aura is *ONLY* able to be used with the Architecting Innovative Graph Applications workshop

1. Open the link to Neo4j Aura: https://console.neo4j.io

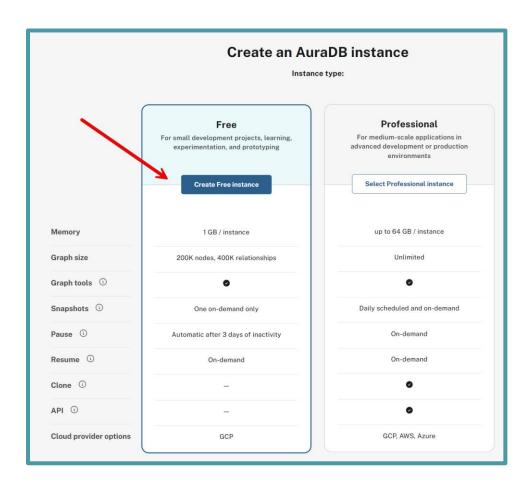


https://console.neo4j.io

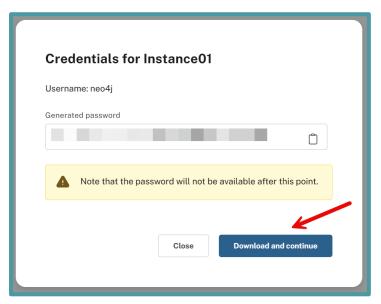
2. Select 'New Instance'



3. Choose 'Create Free instance'

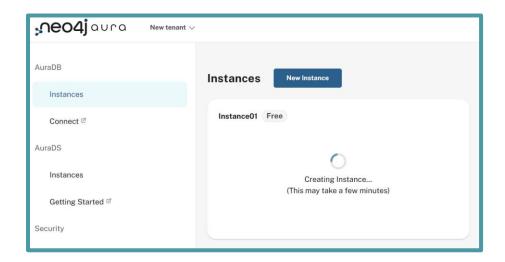


4. Copy the password (Download and Continue)

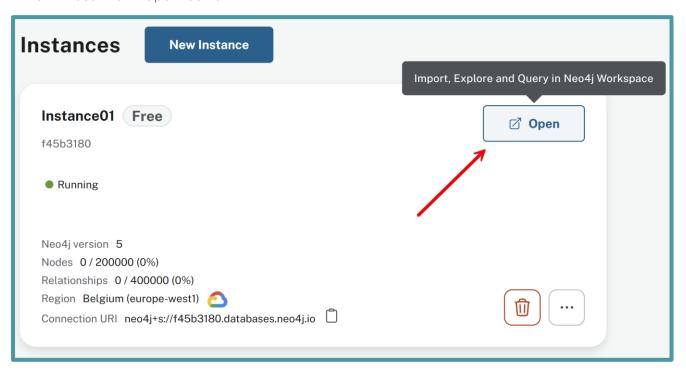


5. Wait for the instance to be created

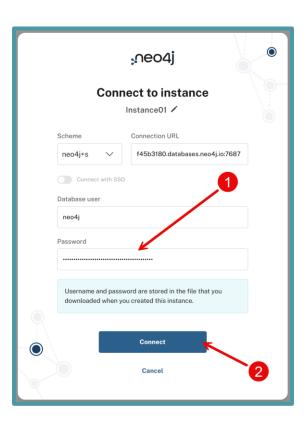




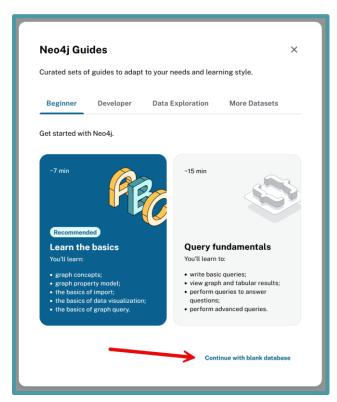
6. Press the 'D' Open' button:



7. Connect using the details (password) that you downloaded/copied in step 4



8. Create a Blank Database



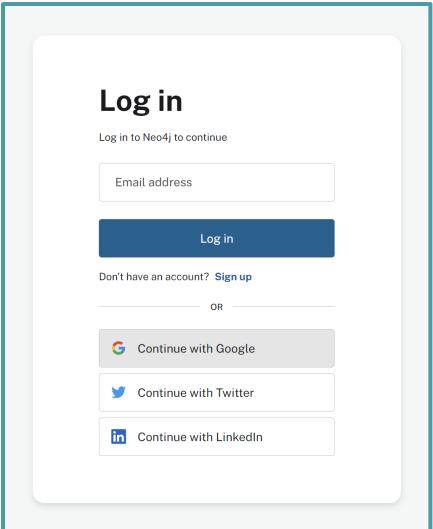
9. Please go to the next section specific for the workshop: Graph Applications Workshop-Ingest



Sandbox

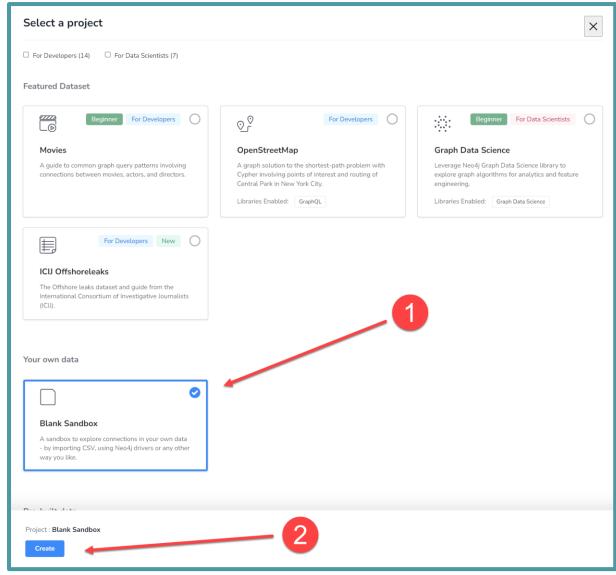
This section gives instructions on how to setup the Neo4j Sandbox environment ready for use with the workshop.

- 10. Go to https://sandbox.neo4j.com
- 11. Login (or create an account and login)

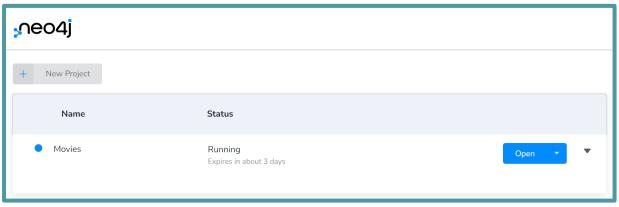




12. Once you have logged in, select the 'Blank Sandbox'

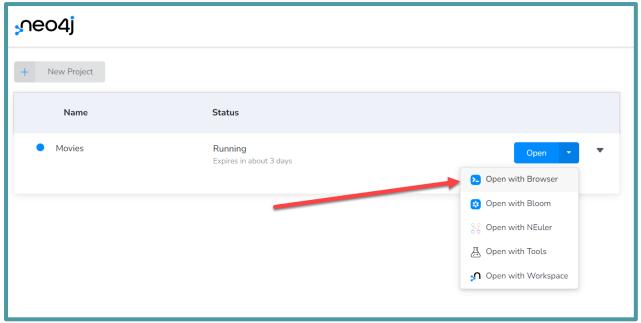


13. The database will then be created





14. At this stage, you can open the Browser



15. Please go to the next section specific for your workshop: Graph Applications Workshop-Ingest GenAl Workshop-Colab

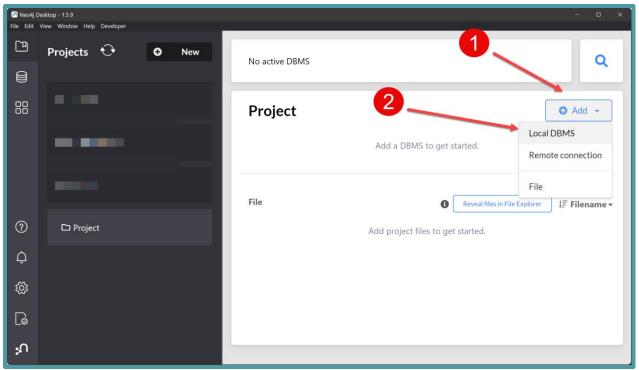
Desktop

This section gives instructions on how to setup the Neo4j Desktop environment ready for use with the workshop. If you are intending to use the Sandbox, please see the section above.

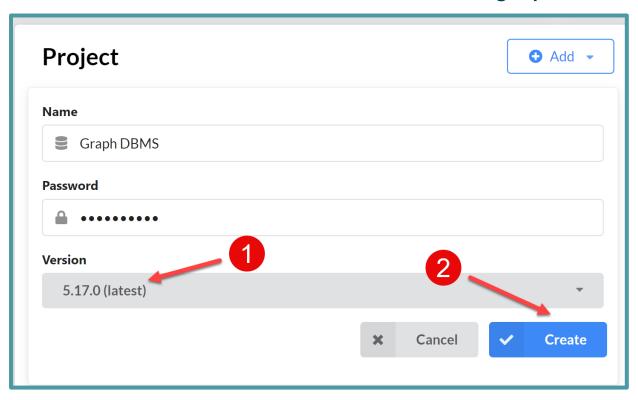
You can get Neo4j Desktop from the Neo4j Deployment Center: https://neo4j.com/deployment-center/

Once you have it installed, you can setup the environment by following the steps below:

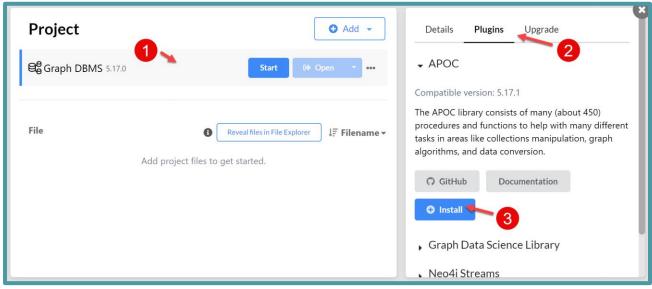
1. Create a new Local DBMS instance



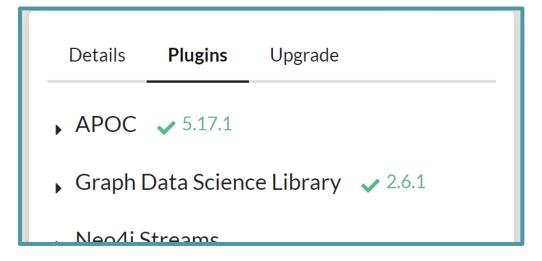
2. Select the latest version (at the time of writing that was 5.17.0, but you can tell by the '(latest)' text that will always be there)



3. We need to add some plugins to the database. To do so, click on the Area indicated by ●. Then select the 'Plugins' and install APOC by selecting the 'Install' button.



4. Repeat step (3) for the Graph Data Science Library. Once complete the plugins panel should look similar to this (the version numbers may be different).



5. Now we can start the database:



6. At this stage, you can open the Neo4j Browser



7. Please go to the next section specific for your workshop: Graph Applications Workshop-Ingest GenAl Workshop-Colab

Graph Applications Workshop - Ingest

In this section we describe how to do the initial ingestion of data for the Workshop. You will execute a script in the browser, which will load some data.

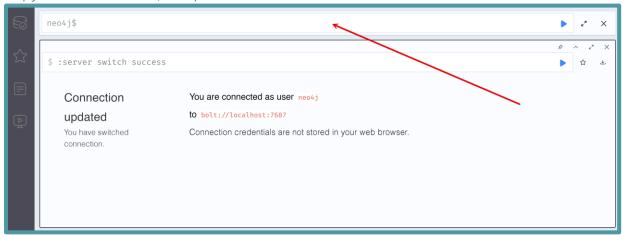
If you have *any* problems with this stage. Please let your instructor know at the beginning of the session, and they can try to help you.

1. Open the load script:



https://bit.ly/gsummit2023-load

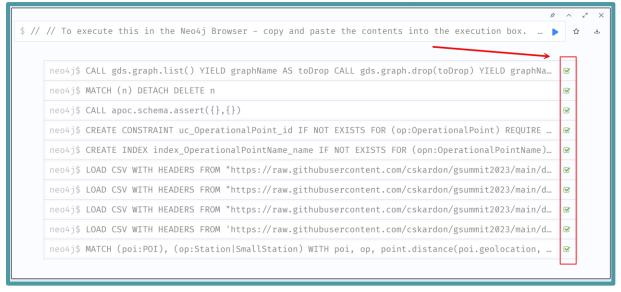
2. Copy the contents of it, and paste it into the Execution Panel



3. Press the 'Play' button



4. You should get all green checks next to the executions. Any errors at all notify your instructor.



5. You are all ready to go!

GenAl Workshop - Colab

In this section we describe what you need to do to be able to take part in the Gen AI workshop.

1. Open the Google Colab Website



https://bit.ly/genai-colab

2. Ensure you are signed in, you can tell from the 'Sign In' button in the top right hand corner of the site. You do need a Google account to complete the workshop tasks.



3. You are now ready for the workshop