



Workshop Preparation

# Preparation for the GraphSummit Workshops

Thank you for your interest in the GraphSummit 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; you can find checklists below to follow for whichever one you have chosen to attend (you can change your mind!).



If you have any problems with the instructions in this document, at each GraphSummit 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 set up for the workshop you are interested in.

## Checklist – Create a Graph-Backed App from Scratch

Test Connection to Neo4j from Your Device	
Aura Free Setup	
Data Ingest	

## Checklist – Building Smarter GenAI Apps with Knowledge Graphs

Test Connection to Neo4j from Your Device	
Notebook Environment	

# Test Connection to Neo4j from Your Device

You will be connecting to a remote instance of the Neo4j database instance. Security measures such as Firewalls or Network policies can prevent connection to the instance, especially from corporate devices.

Prior to attending either workshop, it is advisable to validate that you can connect from the device you intend to bring to the GraphSummit.

To validate that you can connect to a remote Neo4j instance, follow the below directions:

1. Navigate to <https://workspace.neo4j.io> and accept the Terms and Conditions



<https://workspace.neo4j.io>

2. You will be prompted to connect to a Neo4j instance.

Disconnected

neo4j

### Connect to instance

**Credentials**

Protocol: neo4j+s://

Connection URL:

☐ Connect with SSO

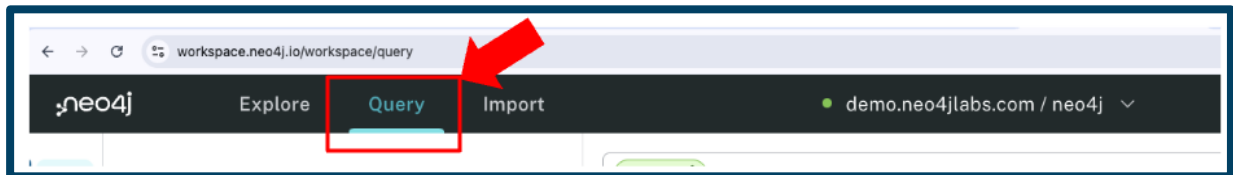
Database user: neo4j

Password:

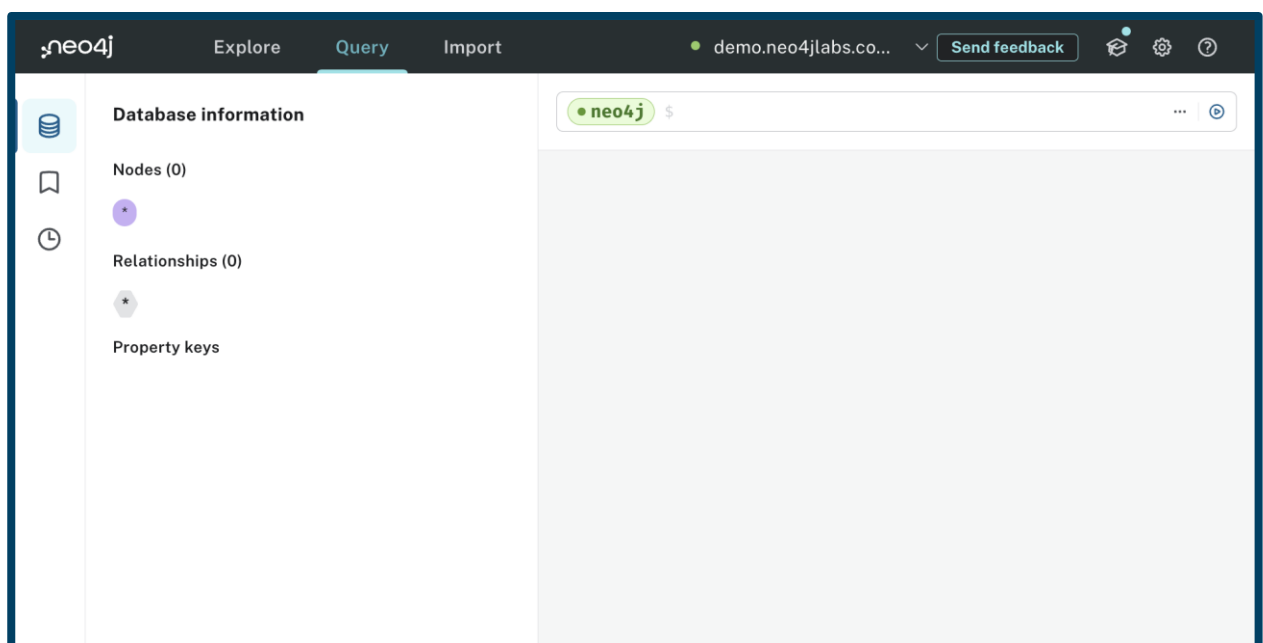
**Connect**

**Cancel**

3. Use the below credentials for the test database
  - a. Connection URL: `neo4j+s://demo.neo4jlabs.com`
  - b. Database User: `retail`
  - c. Password: `retail`
4. Close the “Neo4j Guides” window if it pops up
5. Validate you are on the “Query” tab



6. You should get a screen with 0 nodes and 0 relationships like the one below



7. If completed successfully, you have validated your ability to connect!

If you encounter connection errors, it is likely that your device has firewall or network policies. In this case, we recommend you use a different device, such as your personal computer, if possible. If that is not an option, please stop by the ‘Ask the Experts’ area, where they can provide additional assistance and guidance for other options.

# Aura Free Setup (Graph-Backed App Workshop)

This section gives instructions on how to set up 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. To retain your past Aura Free database, you can take a snapshot and download the dump file before the workshop. This dump file will allow you to restore the database at a later date. Please see the Ask the Experts area if you need assistance.



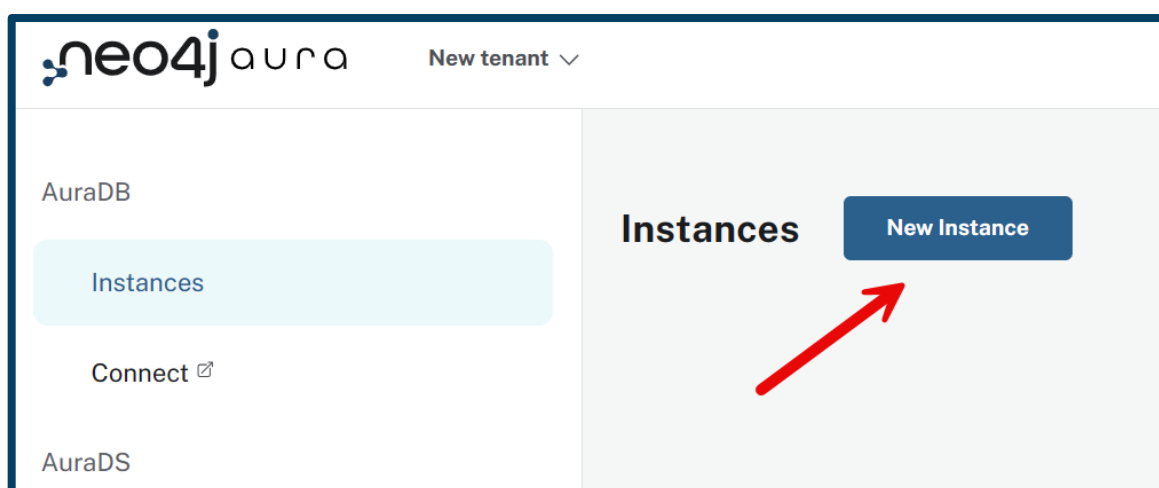
Neo4j Aura Free is *ONLY* able to be used with the Create a Graph-Backed App from Scratch workshop

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



<https://console.neo4j.io>

2. Select 'New Instance'



- Choose 'Create Free instance'

### Create an AuraDB instance

Instance type:

#### Free

For small development projects, learning, experimentation, and prototyping

**Create Free instance**

1 GB / instance

200K nodes, 400K relationships

One on-demand only

Automatic after 3 days of inactivity

On-demand

—

—

GCP

#### Professional

For medium-scale applications in advanced development or production environments

**Select Professional instance**

up to 64 GB / instance

Unlimited

Daily scheduled and on-demand

On-demand

On-demand

—

—

GCP, AWS, Azure

Memory

Graph size

Graph tools ⓘ

Snapshots ⓘ

Pause ⓘ

Resume ⓘ

Clone ⓘ

API ⓘ

Cloud provider options

- Copy the password (Download and Continue) - You will need to save this password somewhere to have it for the workshop.

### Credentials for Instance01

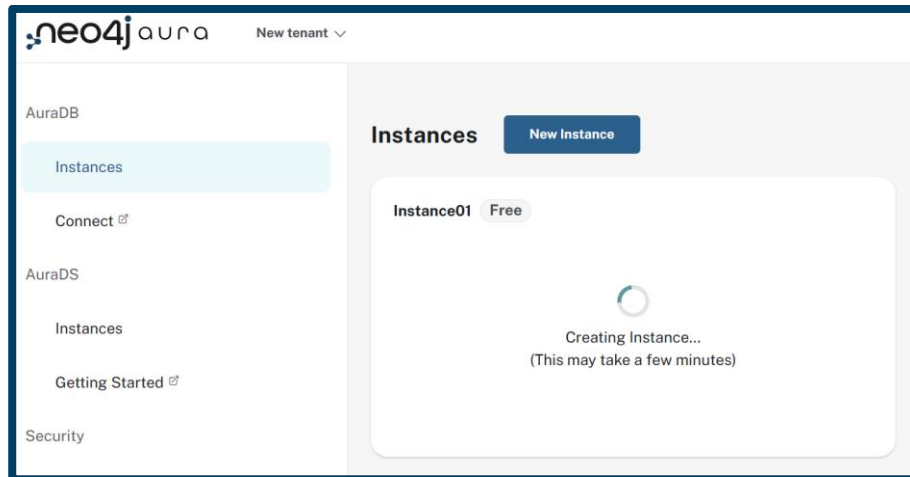
Username: neo4j

Generated password

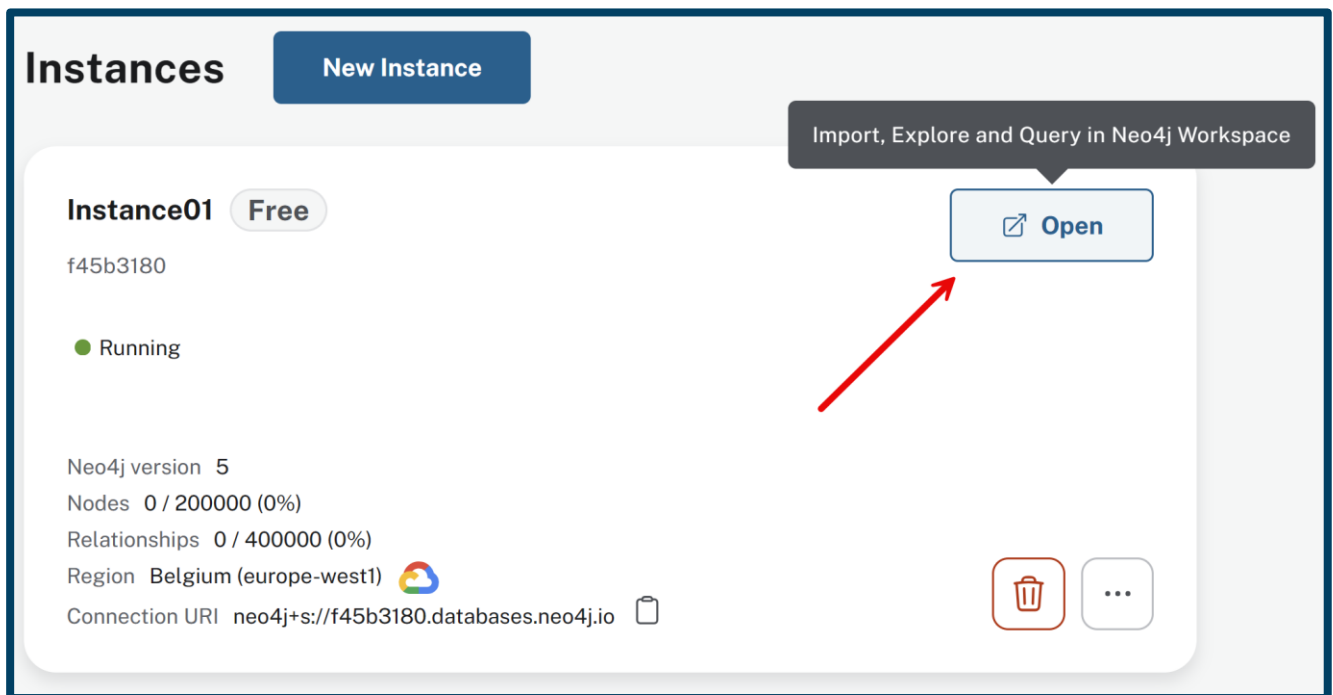
Note that the password will not be available after this point.

Close Download and continue

5. Wait for the instance to be created.

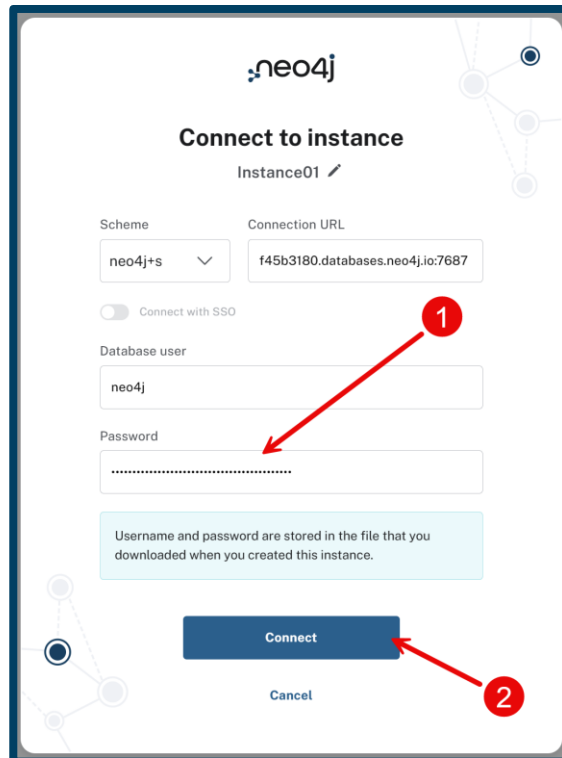


6. Press the 'Open' button:





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



neo4j

### Connect to instance

Instance01 /

Scheme: neo4j+s

Connection URL: f45b3180.databases.neo4j.io:7687

☐ Connect with SSO

Database user: neo4j

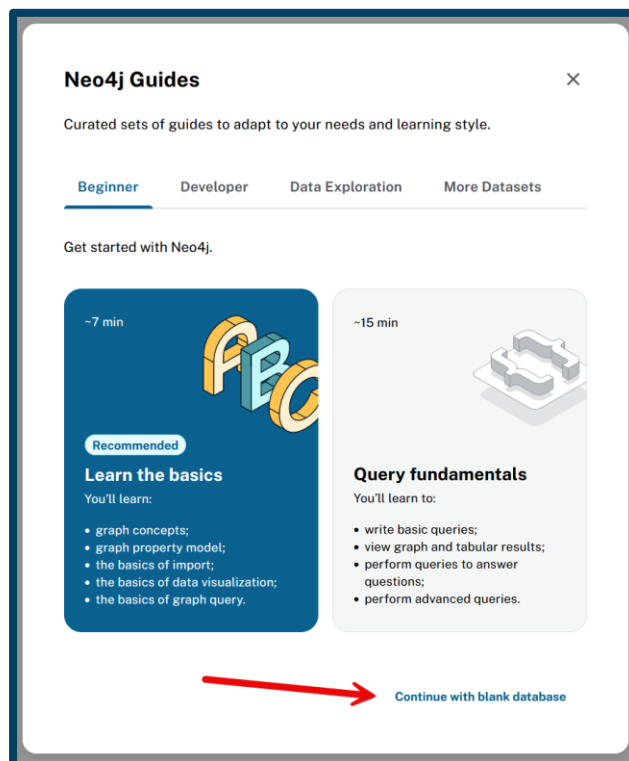
Password: .....

Username and password are stored in the file that you downloaded when you created this instance.

**Connect**

Cancel

8. Create a Blank Database



## Neo4j Guides

Curated sets of guides to adapt to your needs and learning style.

**Beginner** | Developer | Data Exploration | More Datasets

Get started with Neo4j.

~7 min

**Recommended**

**Learn the basics**

You'll learn:

- graph concepts;
- graph property model;
- the basics of import;
- the basics of data visualization;
- the basics of graph query.

~15 min

**Query fundamentals**

You'll learn to:

- write basic queries;
- view graph and tabular results;
- perform queries to answer questions;
- perform advanced queries.

[Continue with blank database](#)

9. Please go to the next section specific to the workshop: Data Ingest

# Data Ingest (Graph-Backed App Workshop)

In this section, we describe how to initialize the workshop database. You will execute a script in the browser to load some data.

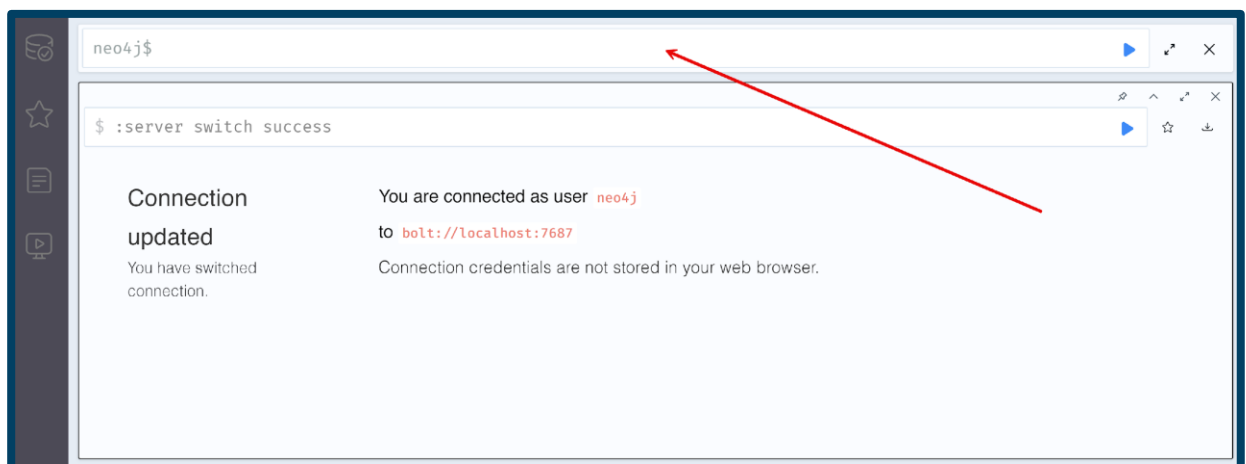
If you have *any* problems with this stage. Please let your instructor know at the beginning of the session for assistance.

1. Open the load script:

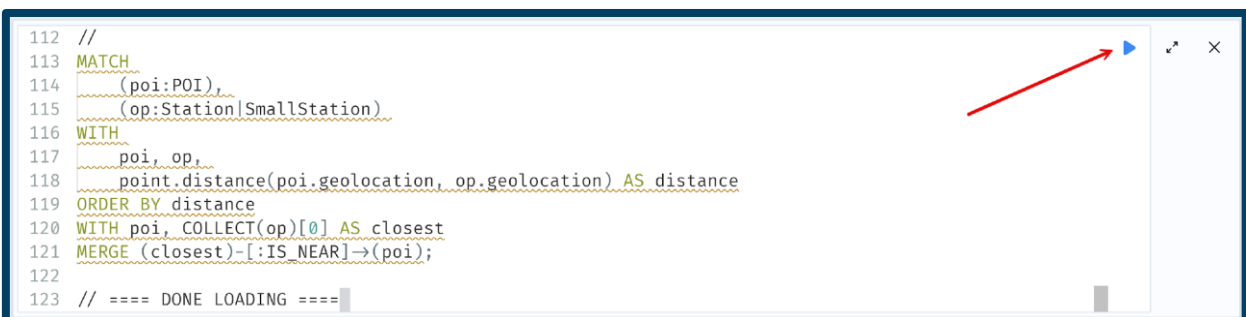


<https://bit.ly/gsummit2024-load>

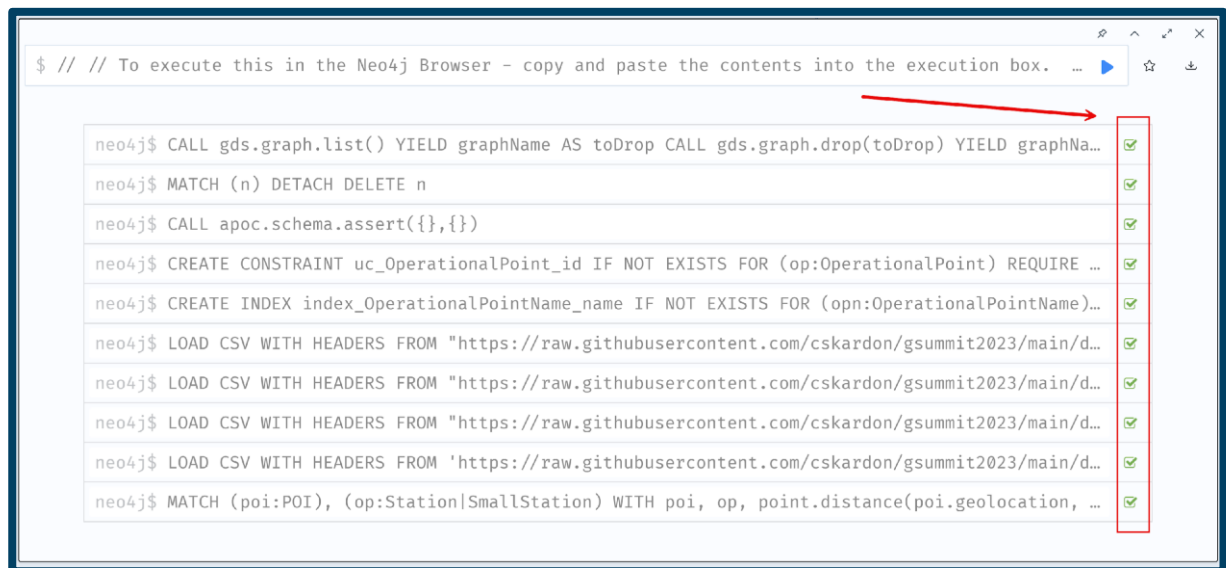
2. Copy the script contents and paste it into the Execution Panel.



3. Press the 'Play' button.



- You should get all green checks next to the executions.



- You are all ready to go!

# Notebook Environment (GenAI Workshop)

To participate in the hands-on GenAI workshop, you will need an environment to run Jupyter notebooks. There are a couple of different options for this:

1. Google Colab (directions below): *Recommended for beginners* as the setup is automated
2. Your own Jupyter setup (in VS code, Jupyter lab, or elsewhere): Set it up at your discretion. The workshop notebooks contain pip install commands for dependencies.

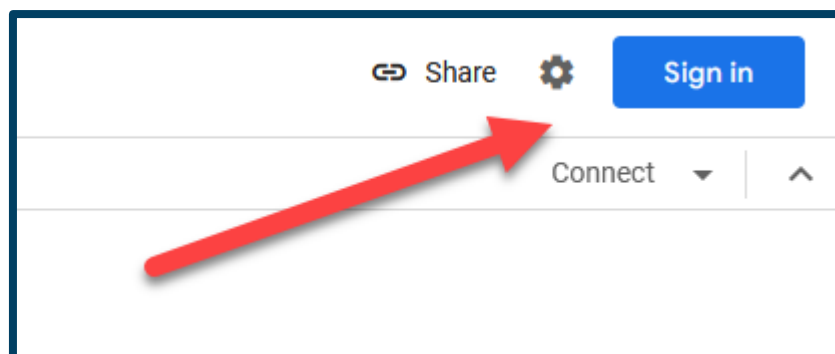
Directions for validating the Google Colab setup:

1. Open the Google Colab Website



<https://bit.ly/genai-colab>

2. Ensure you are signed in. You can tell this from the 'Sign In' button in the top right-hand corner of the site. You do need a Google account to use Colab.



3. You are now ready for the workshop!