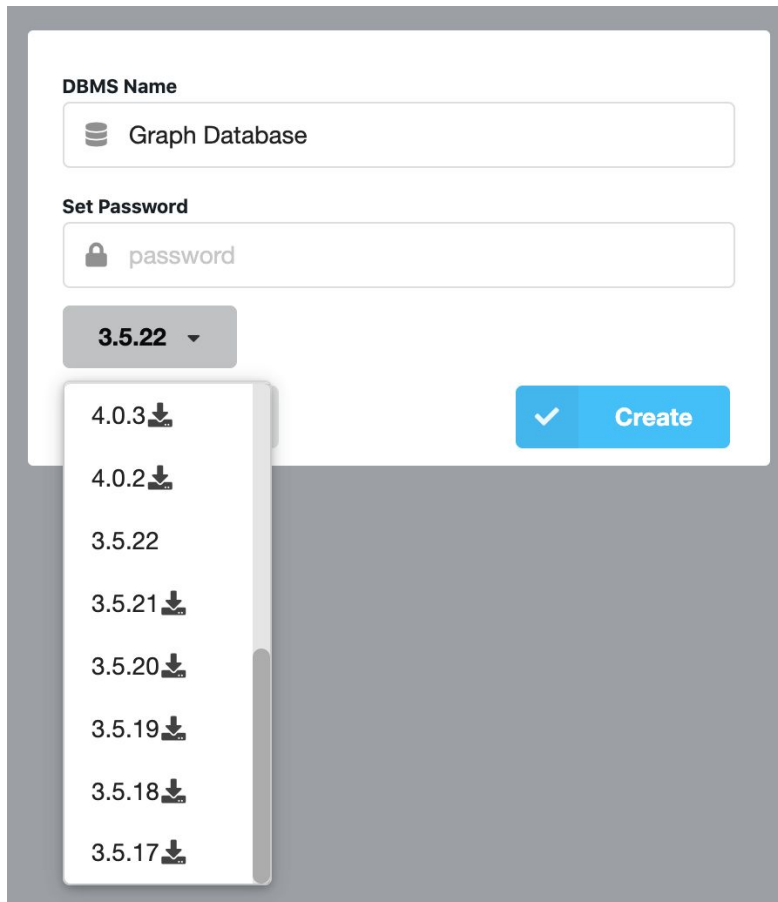# Notes

1. **Neo4j Version**
   Make sure the database version is <mark>3.5.x</mark>. Only 3.5.x support our python script to insert data

2. **Connect the database**
   bolt://localhost:7687 is the database URL, bolt is protocol. When you create the database, please set the password to "1234", in code, the connection url is "<mark>bolt://neo4j:1234@localhost:7687</mark>", neo4j is username, 1234 is password.

   ```
   $ :server status
   ```

   Connection status
   This is your current connection information.

   You are connected as user `neo4j`
   to `bolt://localhost:7687`

   Connection credentials are stored in your web browser.

   password can be set at the creation of the database, or click manage, then set in Administration.

IMDB_V3 ✎

Neo4j 3.5.22
● Active

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⚙ Manage

⎘ Clone

⊙ Dump

🗑 Remove

⇥ Open ▼   ■ Stop

‹ Project

● **IMDB_V3**

▶ ■ ⟳   📁 Open Folder ▼   >_ Open Terminal

Details   Logs   Settings   Plugins   Upgrade   **Administration**

Reset database password

New password   Apply

3. Export Neo4j data
   First, install the plugin, APOC.

‹ Project

● **IMDB_V3**

▶ ■ ⟳   📁 Open Folder ▼   >_ Open Terminal   🗑

Details   Logs   Settings   **Plugins**   Upgrade   Administration

APOC   ✓ Installed

3.5.0.14

The APOC library consists of many (about 450) procedures and functions to help with many different tasks in areas like data integration, graph algorithms or data conversion.

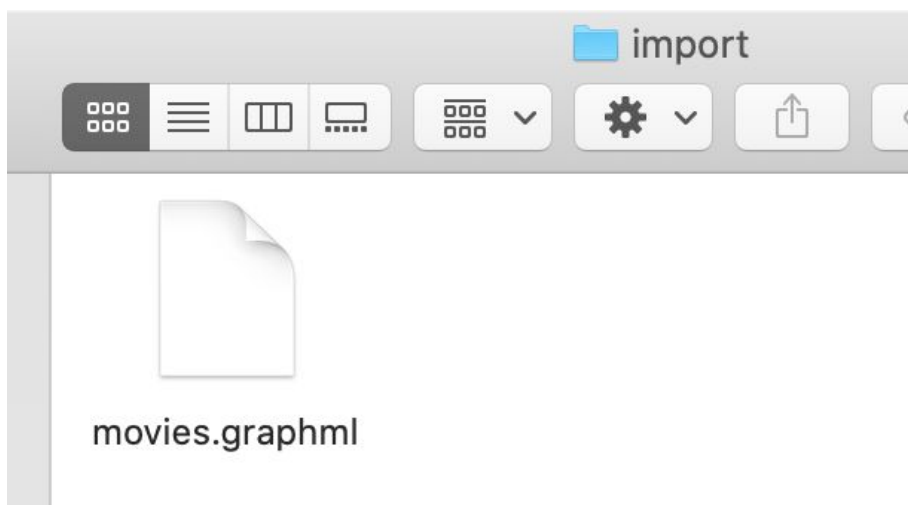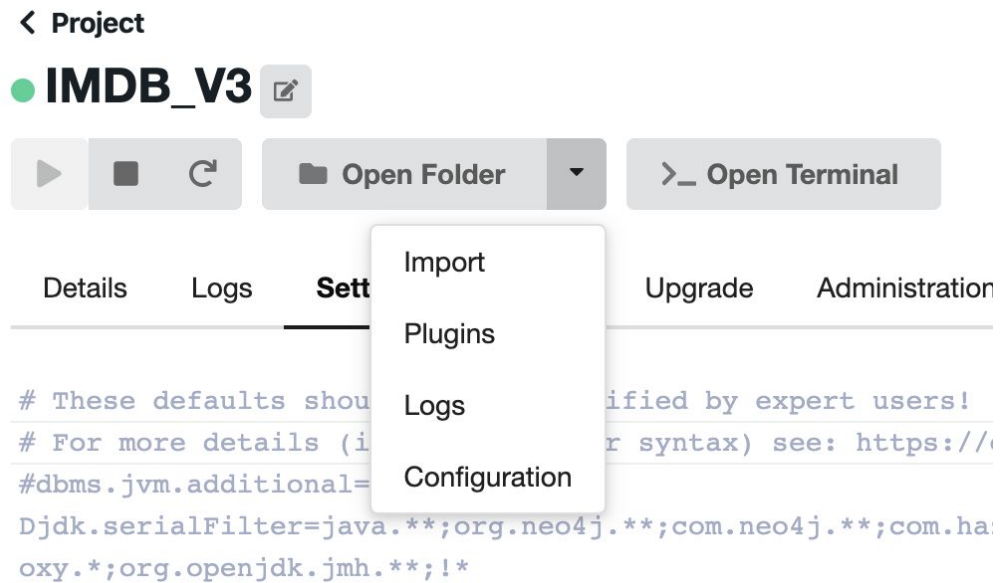○ GitHub   ⊖ Uninstall

Then go to Settings, add <mark>apoc.export.file.enabled=true</mark> on the bottom to enable this function. Click Apply, the database will restart.

< Project

● **IMDB_V3**

▶ ■ ↻ 📁 Open Folder ▾ >_ Open Terminal   🗑

Details   Logs   **Settings**   Plugins   Upgrade   Administration

```
# These defaults should only be modified by expert users!
# For more details (including filter syntax) see: https://openjdk.java.net/jeps/290
#dbms.jvm.additional=-
Djdk.serialFilter=java.**;org.neo4j.**;com.neo4j.**;com.hazelcast.**;net.sf.ehcache.Element;com.sun.pr
oxy.*;org.openjdk.jmh.**;!*

#********************************************************************
# Wrapper Windows NT/2000/XP Service Properties
#********************************************************************
# WARNING - Do not modify any of these properties when an application
#  using this configuration file has been installed as a service.
#  Please uninstall the service before modifying this section.  The
#  service can then be reinstalled.

# Name of the service
dbms.windows_service_name=neo4j

#********************************************************************
# Other Neo4j system properties
#********************************************************************
dbms.jvm.additional=-Dunsupported.dbms.udc.source=tarball

apoc.export.file.enabled=true
```

Then use this CYPHER:
CALL apoc.export.graphml.all("movies.graphml",
{format:"gephi"})
The output file can be seen in the import folder. Click Open Folder's right icon, click Import

< Project

● **IMDB_V3** ✎

▶ ■ ↻ | 📁 Open Folder ▼ | >_ Open Terminal

Details   Logs   Sett   Import   Upgrade   Administration

Plugins

Logs

Configuration

```
# These defaults shou    ified by expert users!
# For more details (i    r syntax) see: https://
#dbms.jvm.additional=
Djdk.serialFilter=java.**;org.neo4j.**;com.neo4j.**;com.ha
oxy.*;org.openjdk.jmh.**;!*
```

📁 import
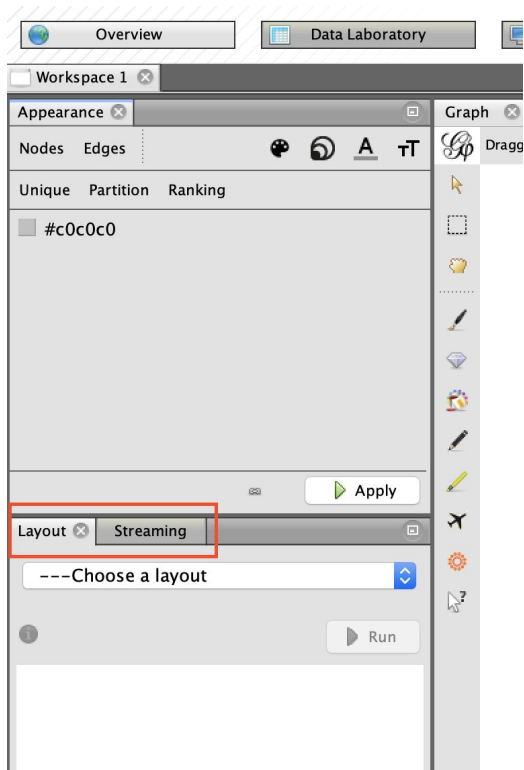
movies.graphml

This file can be used both in Gephi and NetworkX.

4. Connect Neo4j with Gephi
   You can directly transfer data from Neo4j query result to
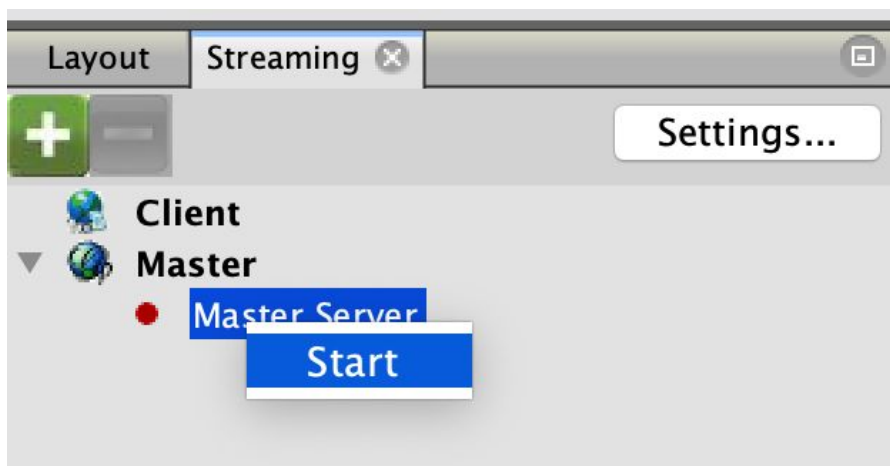   Gephi. In Gephi, go to the plugin panel

w **Tools** Window   Help

Plugins

Language   ▶
× Online docs and support
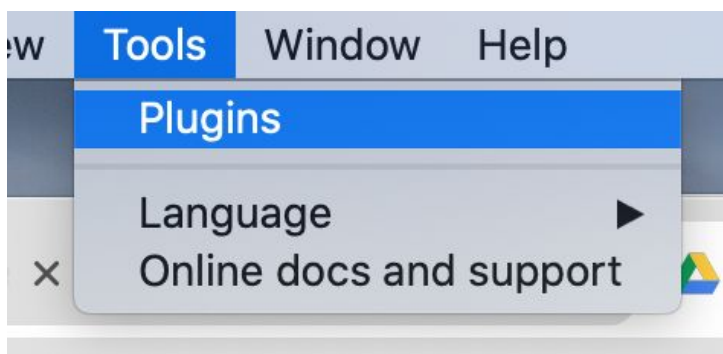
Find a plugin called **Graph Streaming.**
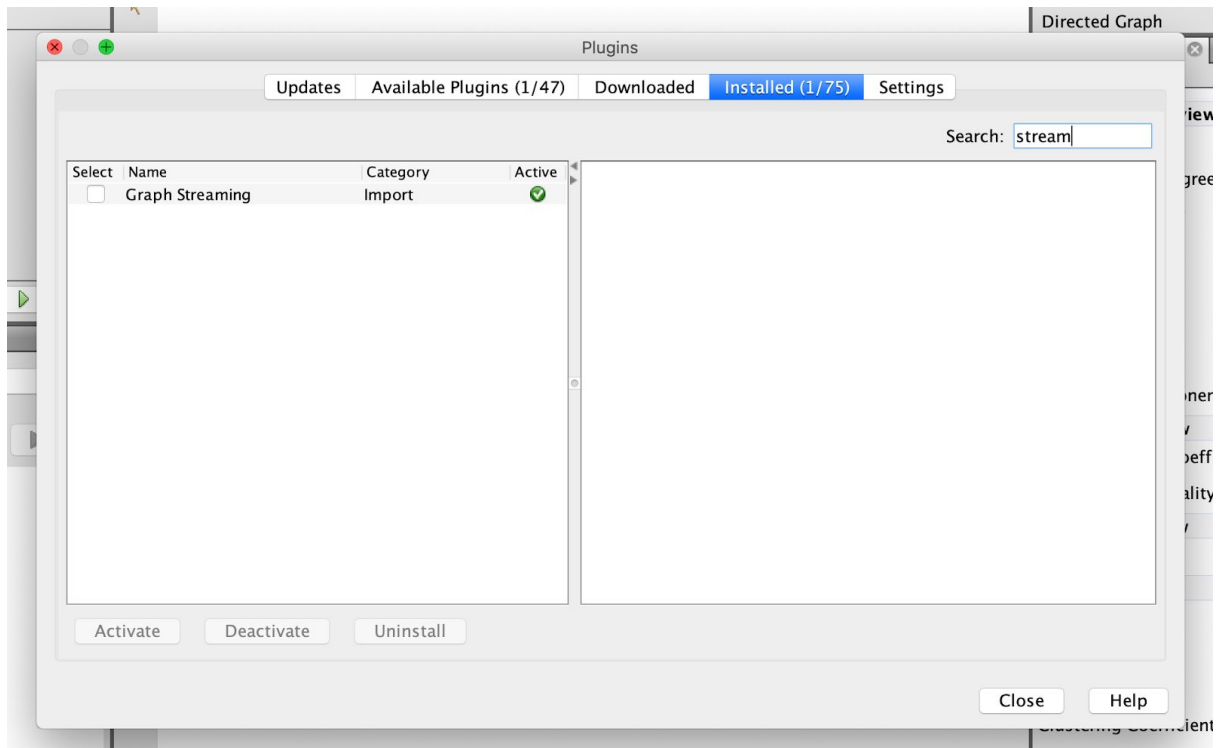
Then it will display near the Layout

Right-click the Master Server, then click start, the red dot
will turn green.

Then go back to neo4j, use this CYPHER, make sure the URL and
workspace name is correct.
MATCH p=(n:Person)-[:ACT_IN|:DIRECT]->(m:Movie)
WITH collect(p) AS ps
call apoc.gephi.add('http://localhost:8080','workspace1', ps)
yield nodes, relationships, time
return nodes, relationships, time