Cassandra DB Setup

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Cassandra Installation - Prerequisites

Prerequisites

- [Python 2.7](#) + Python Environment Variables

    - PATH → New Line → path_to_your_python_folder + \Python27 (Python folder name)

- [Java JDK 8](#) (Temurin 8) + Java Environment Variables

    - New Variable → JAVA_HOME → path_to_your_java_folder + \jdk1.8.0_231

    - PATH → New Line → path_to_your_java_folder + \jdk1.8.0_231\bin

    - **N.B.** it is the first time I use the website in the link I provided you for Java. If it doesn't work, I'll upload an updated version of the slides.

- **N.B.** be careful to pick the correct OS when downloading the tools

Cassandra Installation - Install Cassandra

Download [Cassandra](#)

- Mac/Unix users → Download the version you prefer. The last one is the **5.0**

- Windows users → Download the **3.11.16** version, as Windows is no longer supported after distribution 3.XX.XX

Extract the content of the folder (you may have to repeat this process twice)

- (**optional**) Move the folder within your "Program Files" (or equivalent) folder

Setup the Environment Variables for Cassandra (X.XX.XX → your Cassandra version)

- New Variable → CASSANDRA_HOME → path_to_your_cassandra_folder + \apache-cassandra-X.XX.XX (Cassandra folder name)

- PATH → New Line → CASSANDRA_HOME → path_to_your_cassandra_folder + \apache-cassandra-X.XX.XX\bin

Cassandra Installation - Eventual Errors

Upon installing Cassandra, you may encounter the following errors (hopefully, you will not)

- … Unrecognized VM option 'UseParNewGC'

    - Edit the .bat file (or equivalent)

    - Look for UseParNewGC

    - Substitute the +UseParNewGC^ with +UseG1GC^

- … 'UseConcMarkSweepCG' was deprecated

    - Edit the .bat file (or equivalent)

    - Look for UseConcMarkSweepCG

    - Remove the line (if you met the previous error, UseG1GC should take care of everything)

- **N.B.** If you met any error you cannot solve by yourself or by looking on the web, drop me an e-mail

Cassandra Installation - Run Cassandra

Run Cassandra DB

- Open a new terminal

- Navigate to the **bin** folder within the **Cassandra** folder

- Run the command "cassandra" within your terminal

- Leave this terminal open in background

```
D:\Program Files\apache-cassandra-3.11.11\bin>cassandra
WARNING! Powershell script execution unavailable.
    Please use 'powershell Set-ExecutionPolicy Unrestricted'
    on this user-account to run cassandra with fully featured
    functionality on this platform.
Starting with legacy startup options
Starting Cassandra Server
```

Cassandra Installation - Run Cassandra

Run Query Terminal

- Open a new terminal

- Navigate to the **bin** folder within the **Cassandra** folder

- Run the command "cqlsh" within your terminal

```
D:\Program Files\apache-cassandra-3.11.11\bin>cqlsh

WARNING: console codepage must be set to cp65001 to support utf-8 encoding on Windows platforms.
If you experience encoding problems, change your console codepage with 'chcp 65001' before starting cqlsh.

Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.11 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing.  Install to enable tab completion.
cqlsh>
```