

Lab7: Cassandra Installation

Prerequisites for Cassandra Installation

- Java JRE 8
- Python 2.7

For Windows:

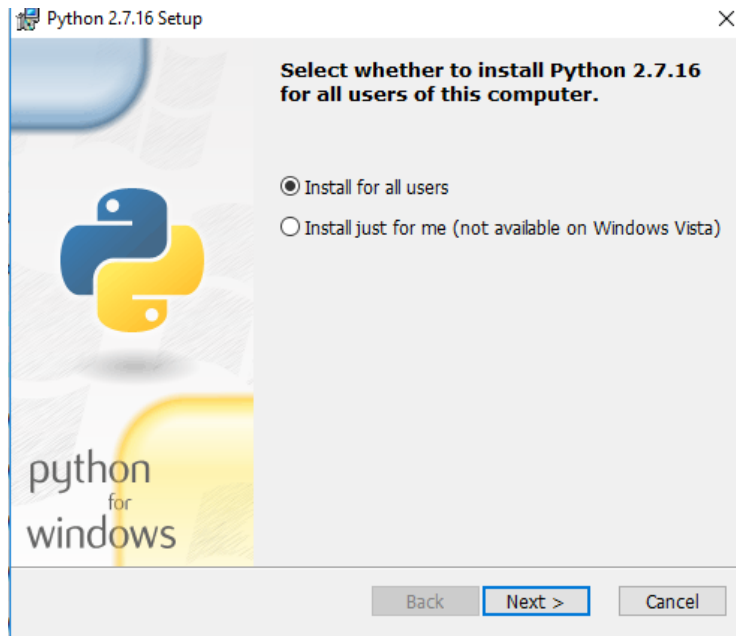
1. Download and install the latest version of [Python 2.7](#).

1.1 Click at the latest version of Python 2.7

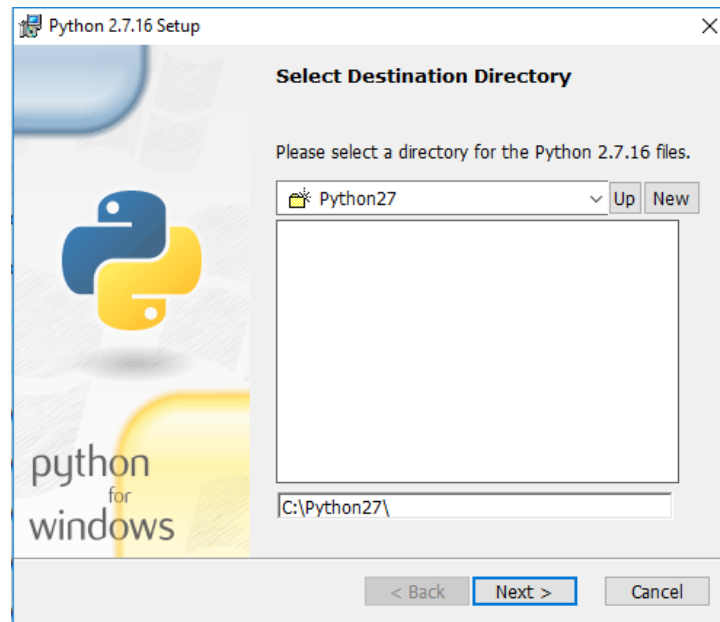
1.2 Click download at MSI installer which compatible with your Windows. For example, we are using **Windows X86-64 MSI Installer**.

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		38c84292658ed4456157195f1c9bcbe1	17539408	SIG
XZ compressed source tarball	Source release		fd6cc8ec0a78c44036f825e739f36e5a	12854736	SIG
macOS 64-bit installer	Mac OS X	for OS X 10.9 and later	ce98eeb7bdf806685adc265ec1444463	24889285	SIG
Windows debug information files	Windows		20b111ccfe8d06d2fe8c77679a86113d	25178278	SIG
Windows debug information files for 64-bit binaries	Windows		bb0897ea20fda343e5179d413d4a4a7c	26005670	SIG
Windows help file	Windows		b3b753dffe1c7930243c1c40ec3a72b1	6322188	SIG
Windows x86-64 MSI installer	Windows	for AMD64/EM64T/x64	a425c758d38f8e28b56f4724b499239a	20598784	SIG
Windows x86 MSI installer	Windows		db6ad9195b3086c6b4cefb9493d738d2	19632128	SIG

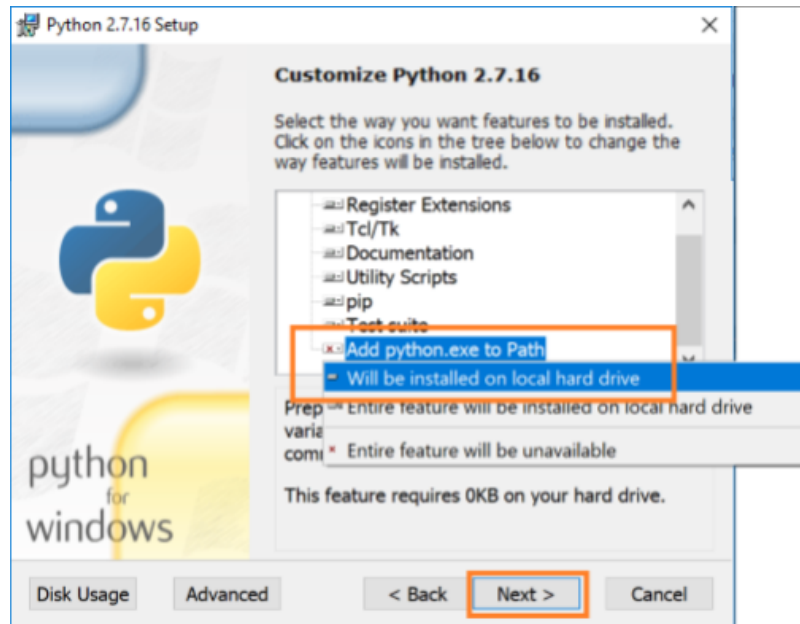
1.3 After the download is finished run the installer. Click accepted the default “Install for all users”. Click **Next**.



1.4 Select directory for installing Python 2.7 and click Next.



1.5 The installer can set the Python path variable for you. To do this, scroll down to **Add python.exe to Path** and select **Will be installed on local hard drive**. Click **Next**.



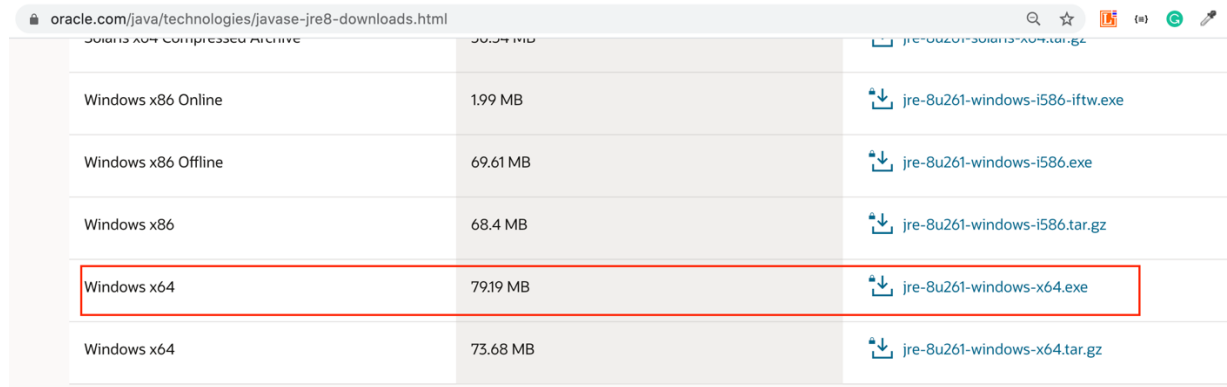
1.6 When it's done click **Finish**



1.7 Open command prompt and verify python version in your machine, type `python --version`.

2. Download and install the latest version of [Java JRE 8](#).

2.1 Click download file "jre-<version>-windows-x64.exe".

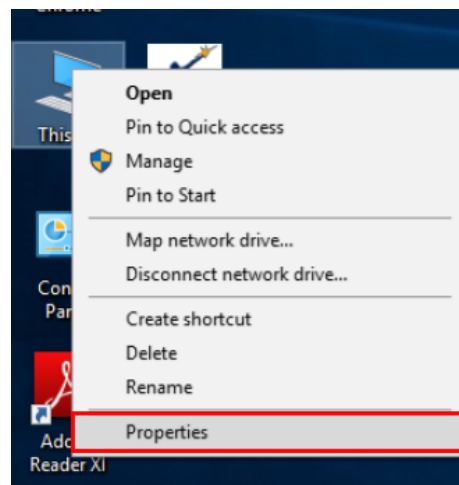


Platform	Size	Download Link
Windows x86 Online	1.99 MB	jre-8u261-windows-i586-iftw.exe
Windows x86 Offline	69.61 MB	jre-8u261-windows-i586.exe
Windows x86	68.4 MB	jre-8u261-windows-i586.tar.gz
Windows x64	79.19 MB	jre-8u261-windows-x64.exe
Windows x64	73.68 MB	jre-8u261-windows-x64.tar.gz

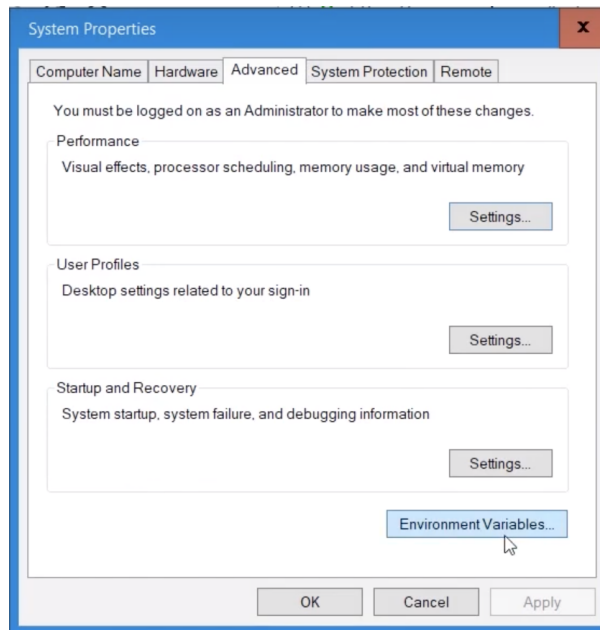
To verify java version in your machine, open command prompt and type `java -version`.

```
java version "1.8.0_191"
Java(TM) SE Runtime Environment (build 1.8.0_191-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.191-b12, mixed mode)
```

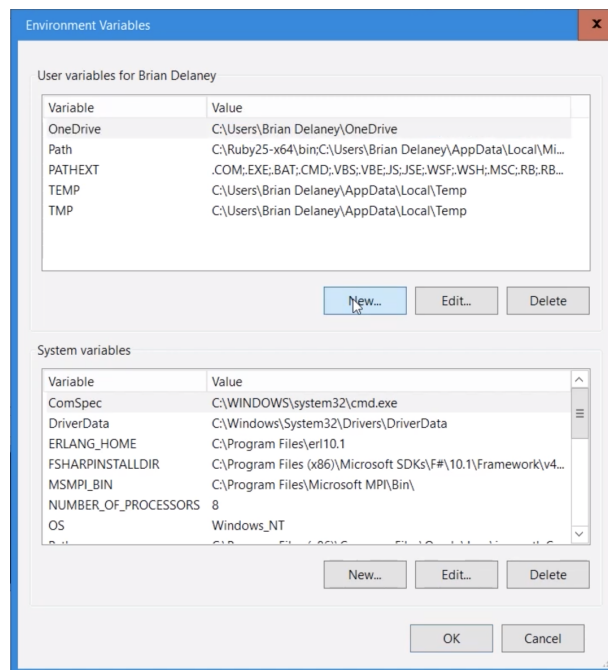
2.2. Set environment variable for Java JRE. Right click at “This PC” and click “Properties”.



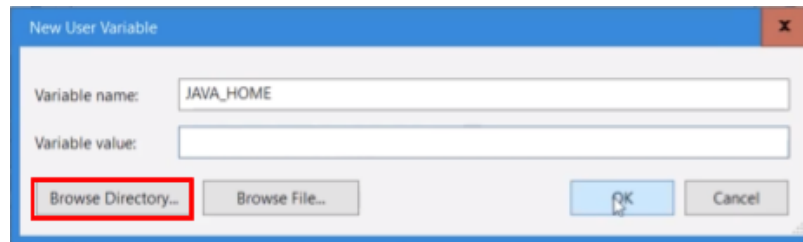
2.3 Go to tab “Advanced” and click at “Environment Variables...”.



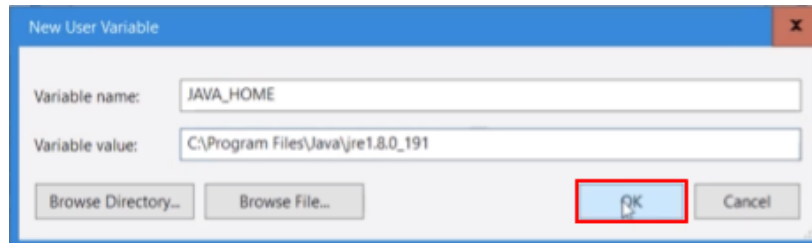
2.4 Click “New...” to create an environment variable.



2.5 Set variable name is “JAVA_HOME” and variable value is path of Java JRE. The default of a path file stored Java is “C:\Program Files\Java\<java jre version>”.



2.6 After selected location path of Java JRE, click “OK”.



3. Download and Install the latest stable version of Apache Cassandra

3.1 Download the latest stable version of Apache Cassandra at <http://cassandra.apache.org/download/>



3.2 Extract downloaded file somewhere. For example, we extract and save at Download Directory.

3.3 Start Cassandra in the foreground by invoking `bin/cassandra -f` from the command line. Press “Control-C” to stop Cassandra. For example:

```
$ cd C:\Users\pattama\Downloads\apache-cassandra-3.11.8\bin
$ cassandra.bat -f
```

3.4 Open another command prompt and start cqlsh

```
$ cd C:\Users\pattama\Downloads\apache-cassandra-3.11.8\bin
$ cqlsh
```

For MacOS:

1. Download and install the latest version of [Python 2.7](#).
2. Download and install the latest version of [Java JRE 8](#). Click download file “jre-<version>-macosx-x64.dmg”.

Java SE Runtime Environment 8u261		
This software is licensed under the Oracle Technology Network License Agreement for Oracle Java SE		
Product / File Description	File Size	Download
Linux x86 RPM Package	69.83 MB	jre-8u261-linux-i586.rpm
Linux x86 Compressed Archive	85.99 MB	jre-8u261-linux-i586.tar.gz
Linux x64 RPM Package	69.28 MB	jre-8u261-linux-x64.rpm
Linux x64 Compressed Archive	85.55 MB	jre-8u261-linux-x64.tar.gz
macOS x64 Installer	80.09 MB	jre-8u261-macosx-x64.dmg

To verify java version in your machine, open terminal and type **java -version**.

3. Download and Install the latest stable version of Apache Cassandra

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3.2 Extract downloaded file somewhere. For example, we extract and save the extracted directory at Downloads directory.

3.3 Start Cassandra in the foreground by invoking **bin/cassandra -f** from the command line. Press “Control-C” to stop Cassandra. For example:

```
$ cd /Users/pattama/Downloads/apache-cassandra-3.11.8/bin
$ ./cassandra -f
```

3.4. Open another terminal and start cqlsh

```
$ cd /Users/pattama/Downloads/apache-cassandra-3.11.8/bin  
$ ./cqlsh
```

For linux: see the details of installation on this [link](#)

References:

1. Installing Cassandra on Windows:
<https://www.youtube.com/watch?v=EEXtVn3zAqc&list=PLalrWAGybpB-L1PGA-NfFu2uiWHEsdscD&index=3>
2. Installing Cassandra on MacOS: <https://www.youtube.com/watch?v=XyrDoak3Ynl>
3. Installing Cassandra on Linux:
https://www.youtube.com/watch?v=pGhkX5z_vW8&list=PLalrWAGybpB-L1PGA-NfFu2uiWHEsdscD&index=4