

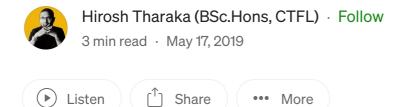






Install Oracle JDK 1.8 and Set environment variables in Ubuntu

Step-by-step guide on installing JDK8(Version 1.8)



Some of the environments or projects you work with may specifically need the Java8 (JDK-1.8) for the references. In such instances, the ideal solution is to download the jdk.tar.gz file from the oracle.com and install it from the terminal without depending to apt-get or any other.

The following is the step-by-step guide of how to install and set the environment-variable paths successfully.

Prerequisites:

Download the JavaSE Development Kit 8 from the given link below.

URL: https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html (Linux x64: jdk-8u211-linux-x64.tar.gz)

Java SE Development Kit 8u211 You must accept the Oracle Technology Network License Agreement for Oracle Java SE to download this software. Accept License Agreement Decline License Agreement		
Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	72.86 MB	₱jdk-8u211-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.76 MB	₱jdk-8u211-linux-arm64-vfp-hflt.tar.gz
Linux x86	174.11 MB	₱jdk-8u211-linux-i586.rpm
Linux x86	188.92 MB	₹jdk-8u211-linux-i586.tar.gz
Linux x64	171 13 MB	♣jdk-8u211-linux-v64 rpm
Linux x64	185.96 MB	₹jdk-8u211-linux-x64.tar.gz
Mac OS X x64	252.23 MB	▼jdk-8u211-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	132.98 MB	€jdk-8u211-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	94.18 MB	₹jdk-8u211-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	133.57 MB	₹jdk-8u211-solaris-x64.tar.Z
Solaris x64	91.93 MB	₹jdk-8u211-solaris-x64.tar.gz
Windows x86	202.62 MB	₹jdk-8u211-windows-i586.exe
Windows x64	215.29 MB	₹jdk-8u211-windows-x64.exe

Download the above *tar.gz* file to "/home/hirosht/Downloads". (You might have to login to the Oracle Account to download)

Ps: If any other version of OracleJDK / OpenJDK is installed remove all firstly.

Steps:

- 1. Open the Terminal (Ctrl + Alt + T)
- 2. Create the jvm folder in *usr/lib*
 - \$ sudo mkdir /usr/lib/jvm
- 3. Change the working directory
 - \$ cd /usr/lib/jvm
- 4. Extract the downloaded *jdk-xuxxx-linux-x64.tar.gz* file in the ~/Downloads folder using this command
 - \$ sudo tar -xvzf ~/Downloads/jdk-8u211-linux-x64.tar.gz
- 5. Open the Environment Variable file using Nano-editor or Vi-editor
 - \$ sudo nano /etc/environment Or \$ sudo vi /etc/environment
- 6. Add the following 'bin-folder-path' to the existing PATH variable in the opened file (ensure to separate the Path variable by a semicolon [:])

/usr/lib/jvm/jdk-11/bin

7. Add the following JAVA_HOME environment variables at the end of the file.

JAVA_HOME="/usr/lib/jvm/jdk-11"

The modified environment file must looks like following.

```
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/games:/usr/local/games:/usr/lib/jvm/jdk1.8.0_211/bin"

JAVA_HOME="/usr/lib/jvm/jdk1.8.0_211"
```

8. Save the changes based on the editor opened

```
- 8.1 If Nano;
- - - Ctrl + 0 and then Ctrl + X
- 8.2 If Vi;
- - - Press Escape.
- - - Then Shift + Semicolon (:).
- - - Afterwards type (:wq!) and Press Enter
```

9. Set the Java Location

```
$ sudo update-alternatives --install "/usr/bin/java" "java"
"/usr/lib/jvm/jdk1.8.0_211/bin/java" 0
$ sudo update-alternatives --install "/usr/bin/javac" "javac"
"/usr/lib/jvm/jdk1.8.0_211/bin/javac" 0
$ sudo update-alternatives --set java
/usr/lib/jvm/jdk1.8.0_211/bin/java
$ sudo update-alternatives --set javac
/usr/lib/jvm/jdk1.8.0_211/bin/javac
```

10. Verify the setup by executing the following commands.

```
$ update-alternatives --list java
$ update-alternatives --list javac
```

11. Open the ~/.bashrc with vi-editor to append the following environment variables to the bottom.

```
$ sudo vi ~/.bashrc
```

and Press 'i' to move into insert in vi-editor. Add the following to the bottom of the doc.

```
JAVA_HOME="/usr/lib/jvm/jdk1.8.0_211"

MAVEN_HOME="/usr/share/maven"

PATH=$PATH:$HOME/bin:$JAVA_HOME/bin:$MAVEN_HOME/bin

export JAVA_HOME

export MAVEN_HOME

export PATH
```

(Ps: I have set the MAVEN_HOME path as well additionally. If its not required please remove those lines before pasting in '.bashrc').

Save the amendment in the doc in vi-editor by following the steps below.

```
Press Escape.
Then Shift + Semicolon (:).
Afterwards type (:wq!)
and Press Enter
```

12. Verify the Java Version (Restart, if required)

```
$ java -version
```

Should display as

```
java version "1.8.0_211"
Java(TM) SE Runtime Environment (build 1.8.0_211-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.211-b12, mixed mode)
```

13. Verify the JAVA_HOME path.

```
$ echo $JAVA_HOME
```

the path should display as follows,

/usr/lib/jvm/jdk1.8.0_211

Successfully installed and configured! Feel free to comment below if there is a better approach or if the flow can be improved.

Programming

Ubuntu

Java8

Java





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