# How to Download & Install Java in Linux(Ubuntu)

Following is a step by step guide to install Java on Linux. In this training, we will install Java on Ubuntu. The process and install commands remain the same, for different flavors of Linux, or versions of Java.

How to Install Oracle Java on Ubuntu Linux

Step 1) Before you start with the setting up Java, you will need to remove the OpenJDK/JRE from the system.

To do this, use below command-

```
sudo apt-get purge openjdk-\*
```
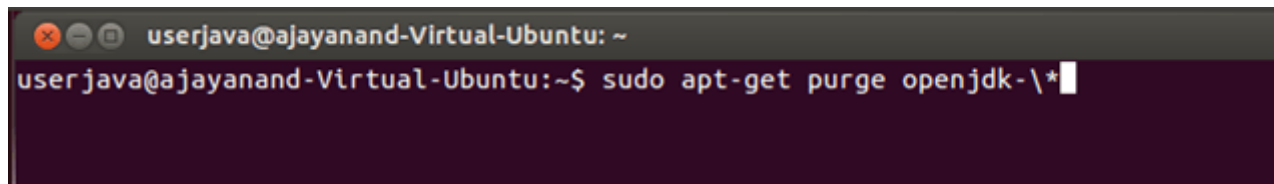

(/images/Big_Data/061114_1140_HowtoInstal1.png)

You will be asked for a confirmation. Enter Y

(/images/Big_Data/061114_1140_HowtoInstal2.png)

Wait for sometime for uninstall to complete

Step 2) Check whether Ubuntu OS architecture is 32-bit or 64-bit.

You can do it using the following command-

```
file /sbin/init
```


(/images/Big_Data/061114_1140_HowtoInstal3.png)

Step 3) Download latest Java (/java-tutorial.html)(a zip file e.g., jdk-8-linux-x64.tar.gz) from Oracle site-

http://www.oracle.com/technetwork/java/javase/downloads/index.html
(http://www.oracle.com/technetwork/java/javase/downloads/index.html)

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Accept the License Agreement.

- Select x86 for 32-bit system
- Select x64 for 64-bit system
- Select the tar.gz for Ubuntu
- Select rpm for Debian based system

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Once a download is complete you will see
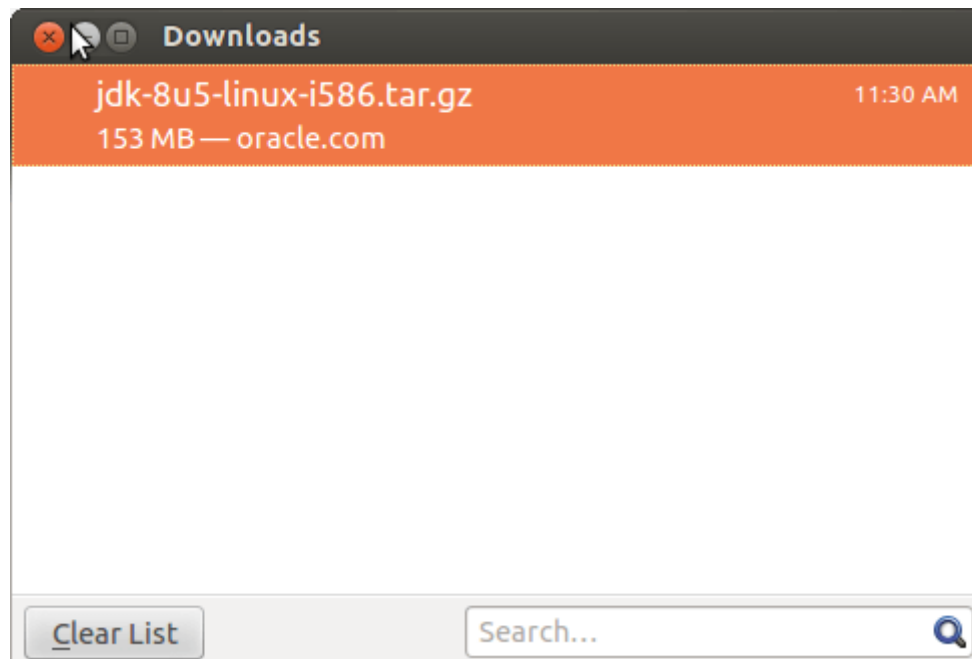
(/images/Big_Data/061114_1140_HowtoInstal6.png)

Step 4) In the terminal, navigate to the location of your zip file

```
guru99@guru99-VirtualBox:~$ cd /home/guru99/Downloads
guru99@guru99-VirtualBox:~/Downloads$ █
```
(/images/Big_Data/061114_1140_HowtoInstal7.png)

Extract contents of java zip file in a directory of your choice.

In this tutorial, we will extract in the Downloads folder itself –

```
sudo tar -xvf jdk-8u5-linux-i586.tar.gz
```

```
guru99@guru99-VirtualBox:~/Downloads$ sudo tar -xvf jdk-8u5-linux-i586.tar.gz
[sudo] password for guru99: █
```
(/images/Big_Data/061114_1140_HowtoInstal8.png)

Enter your password, if asked. The unzip will continue. Once done you will see the following folder -

(/images/Big_Data/061114_1140_HowtoInstal9.png)

Step 5) Add the following system variables to the end of **/etc/profile** file

```
JAVA_HOME=<Directory where JAVA has been extracted>/jdk1.8.0
PATH=$PATH:$HOME/bin:$JAVA_HOME/bin
export JAVA_HOME
export PATH
```

To do so –

Enter command

```
"sudo nano /etc/profile"
```

```
guru99@guru99-VirtualBox:~/Downloads$ sudo nano /etc/profile
```

Enter the system variables

```
 GNU nano 2.2.6              File: /etc/profile

# See pam_umask(8) and /etc/login.defs.
        I
if [ -d /etc/profile.d ]; then
  for i in /etc/profile.d/*.sh; do
    if [ -r $i ]; then
      . $i
    fi
  done
  unset i
fi

JAVA_HOME=/home/guru99/Downloads/jdk1.8.0_05
PATH=$PATH:$HOME/bin:$JAVA_HOME/bin
export JAVA_HOME
export PATH



^G Get Help   ^O WriteOut  ^R Read File ^Y Prev Pa
^X Exit       ^J Justify   ^W Where Is  ^V Next Pa
```

Press Control+C to enter into command mode

```
  GNU nano 2.2.6              File: /etc/profile                    Mc

# See pam_umask(8) and /etc/login.defs.

if [ -d /etc/profile.d ]; then
  for i in /etc/profile.d/*.sh; do
    if [ -r $i ]; then
      . $i
    fi
  done
  unset i
fi


JAVA_HOME=/home/guru99/Downloads/jdk1.8.0_05
PATH=$PATH:$HOME/bin:$JAVA_HOME/bin
export JAVA_HOME
export PATH




                [ line 35/36 (97%), col 12/12 (100%), char 775/776 (99%) ]
^G Get Help   ^O WriteOut   ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur
^X Exit       ^J Justify    ^W Where Is   ^V Next Page  ^U UnCut Text ^T To S
```

[(/images/Big_Data/061114_1140_HowtoInstal12.png)](/images/Big_Data/061114_1140_HowtoInstal12.png)

Press ^+X to Exit

```
  GNU nano 2.2.6              File: /etc/profile


# See pam_umask(8) and /etc/login.defs.

if [ -d /etc/profile.d ]; then
  for i in /etc/profile.d/*.sh; do
    if [ -r $i ]; then
      . $i
    fi
  done
  unset i
fi

JAVA_HOME=/home/guru99/Downloads/jdk1.8.0_05
PATH=$PATH:$HOME/bin:$JAVA_HOME/bin
export JAVA_HOME
export PATH




Save modified buffer (ANSWERING "No" WILL DESTROY CHANGES) ?
 Y Yes
 N No                ^C Cancel
```

(/images/Big_Data/061114_1140_HowtoInstal13.png)

Press "Y" to save the changes

Step 6) Now reload environment using a command,
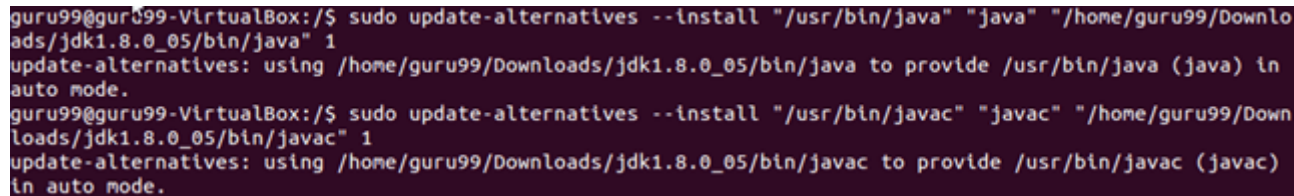
```
. /etc/profile
```

```
guru99@guru99-VirtualBox:/$  . /etc/profile
guru99@guru99-VirtualBox:/$
```

(/images/Big_Data/061114_1140_HowtoInstal14.png)

Step 7) Its time to let Ubuntu know where our JDK/JRE is located.

Copy-paste below lines into a command prompt.

```
sudo update-alternatives --install "/usr/bin/java" "java" "<Directory where J
AVA has been extracted>/bin/java" 1
sudo update-alternatives --install "/usr/bin/javac" "javac" "<Directory where
JAVA has been extracted>/bin/javac" 1
sudo update-alternatives --install "/usr/bin/javaws" "javaws" "<Directory whe
re JAVA has been extracted>/bin/javaws" 1
```


(/images/Big_Data/061114_1140_HowtoInstal15.png)

Step 8) Tell Ubuntu that our installation i.e., jdk1.8.0_05 must be the default Java.

Use below commands to do this-

```
sudo update-alternatives --set java <Directory where JAVA has been extracted
>/bin/java
sudo update-alternatives --set javac <Directory where JAVA has been extracted
>/bin/javac
sudo update-alternatives --set javaws <Directory where JAVA has been extracte
d>/bin/javaws
```


(/images/Big_Data/061114_1140_HowtoInstal16.png)

Step 9) Test the installation using below command,

```
java -version
```

```
guru99@guru99-VirtualBox:/$ java -version
java version "1.8.0_05"
Java(TM) SE Runtime Environment (build 1.8.0_05-b13)
Java HotSpot(TM) Client VM (build 25.5-b02, mixed mode)
guru99@guru99-VirtualBox:/$ ▮
```

(/images/Big_Data/061114_1140_HowtoInstal17.png)

A successful installation will show information as seen in the above screenshot.

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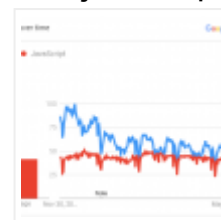
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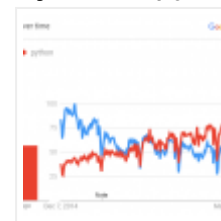**JAVASCRIPT**

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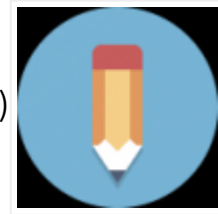
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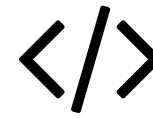
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