

How to Download & Install Java in Linux(Ubuntu)

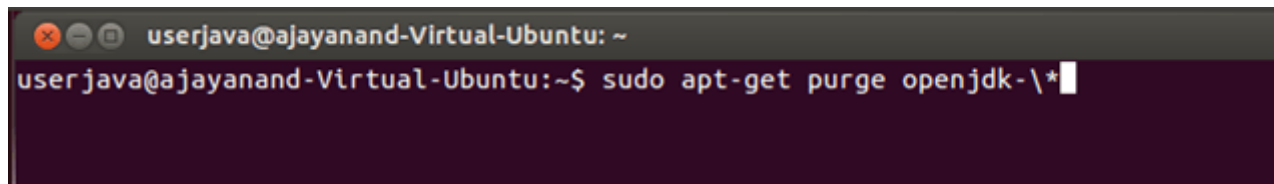
Following is a step by step guide to install Java on Linux. In this training, we will install Java on Ubuntu. The process and install commands remain the same, for different flavors of Linux, or versions of Java.

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

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```
After this operation, 86.0 MB disk space will be freed.  
Do you want to continue [Y/n]? y  
(Reading database ... 143930 files and directories currently installed.)  
Removing openjdk-7-jdk ...  
Removing icedtea-7-jre-jamvm ...  
Removing libatk-wrapper-java-jni ...  
Purging configuration files for libatk-wrapper-java-jni ...  
Removing libatk-wrapper-java ...
```

[11\) Java Arrays \(/java-arrays.html\)](#).



(/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
```

```
guru99@guru99-VirtualBox:~$ file /sbin/init  
\sbin/init: ELF 32-bit LSB shared object, Intel 80386, version 1 (SYSV)  
dynamically linked (uses shared libs), for GNU/Linux 2.6.24, BuildID[sha1:557b82b9e369a984cc3999ca8b48d2c], stripped
```

(/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>).



[./images/Big_Data/061114_1140_HowtoInstal4.png](#)

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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Java SE Development Kit 8u5

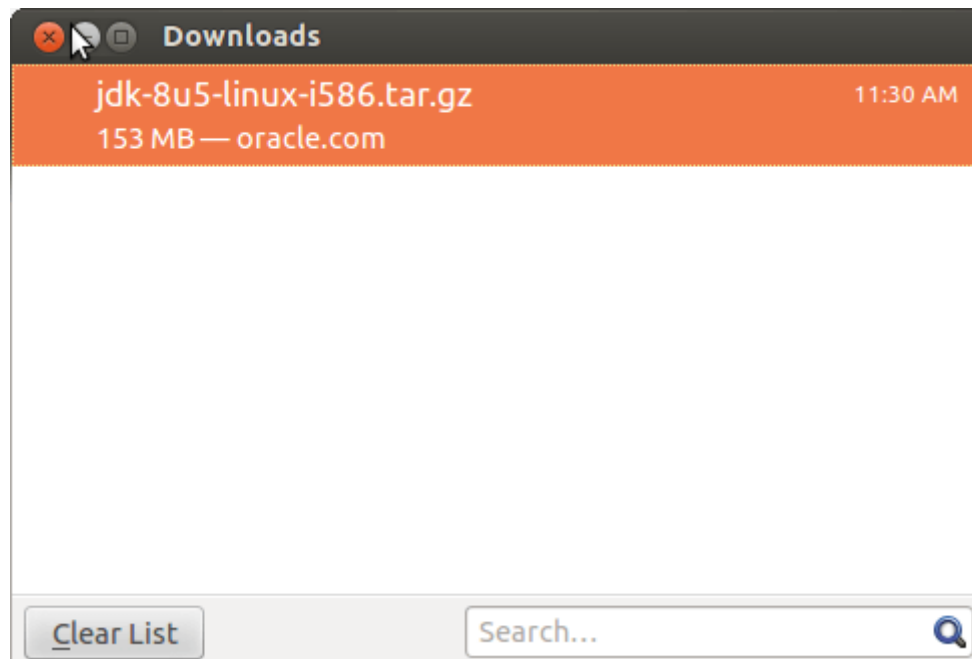
You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

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Product / File Description	File Size	Download
Linux x86	133.58 MB	jdk-8u5-linux-i586.rpm
Linux x86	152.5 MB	jdk-8u5-linux-i586.tar.gz
Linux x64	133.87 MB	jdk-8u5-linux-x64.rpm
Linux x64	151.64 MB	jdk-8u5-linux-x64.tar.gz
Mac OS X x64	207.79 MB	jdk-8u5-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	135.68 MB	jdk-8u5-solaris-sparcv9.tar.gz

(./images/Big_Data/061114_1140_HowtoInstal5.png).

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
```

(./images/Big_Data/061114_1140_HowtoInstal10.png).

Enter the system variables

```
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
```

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

(./images/Big_Data/061114_1140_HowtoInstal11.png).

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).

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
```

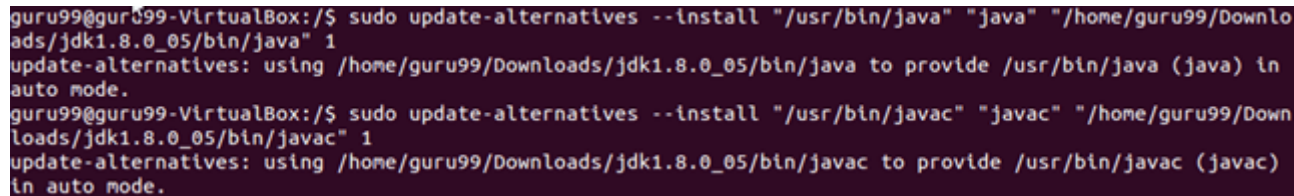
```
guru99@guru99-VirtualBox:/$ . /etc/profile
guru99@guru99-VirtualBox:/$
```

(./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
```

A terminal window showing the execution of three commands to install Java alternatives. The first command installs 'java' from '/home/guru99/Downloads/jdk1.8.0_05/bin/java'. The second command installs 'javac' from '/home/guru99/Downloads/jdk1.8.0_05/bin/javac'. The third command installs 'javaws' from '/home/guru99/Downloads/jdk1.8.0_05/bin/javaws'. Each command is followed by the output 'update-alternatives: using ... to provide ... in auto mode.'

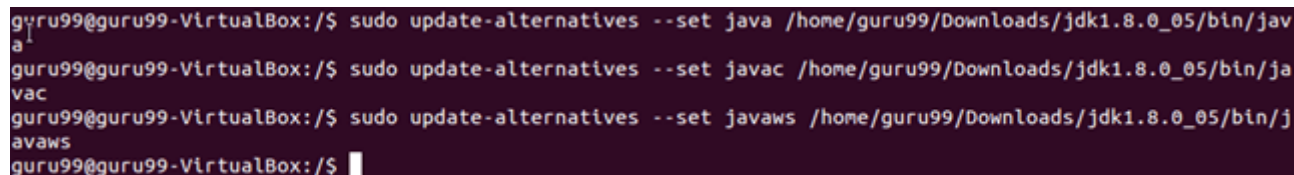
```
guru99@guru99-VirtualBox:/$ sudo update-alternatives --install "/usr/bin/java" "java" "/home/guru99/Downlo
ads/jdk1.8.0_05/bin/java" 1
update-alternatives: using /home/guru99/Downloads/jdk1.8.0_05/bin/java to provide /usr/bin/java (java) in
auto mode.
guru99@guru99-VirtualBox:/$ sudo update-alternatives --install "/usr/bin/javac" "javac" "/home/guru99/Down
loads/jdk1.8.0_05/bin/javac" 1
update-alternatives: using /home/guru99/Downloads/jdk1.8.0_05/bin/javac to provide /usr/bin/javac (javac)
in auto mode.
```

(./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
```

A terminal window showing the execution of three commands to set the default Java alternatives. The first command sets 'java' to '/home/guru99/Downloads/jdk1.8.0_05/bin/java'. The second command sets 'javac' to '/home/guru99/Downloads/jdk1.8.0_05/bin/javac'. The third command sets 'javaws' to '/home/guru99/Downloads/jdk1.8.0_05/bin/javaws'. Each command is followed by the output 'update-alternatives: using ... to provide ... in auto mode.'

```
guru99@guru99-VirtualBox:/$ sudo update-alternatives --set java /home/guru99/Downloads/jdk1.8.0_05/bin/jav
a
guru99@guru99-VirtualBox:/$ sudo update-alternatives --set javac /home/guru99/Downloads/jdk1.8.0_05/bin/ja
vac
guru99@guru99-VirtualBox:/$ sudo update-alternatives --set javaws /home/guru99/Downloads/jdk1.8.0_05/bin/j
avaws
guru99@guru99-VirtualBox:/$
```

(./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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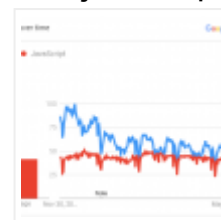
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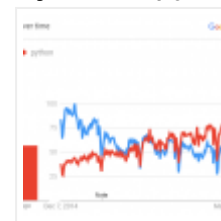


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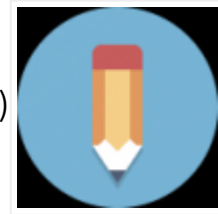
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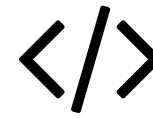
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