

# Eclipse&JDK Installation(Linux&Mac)

1. Visit Oracle Download Page and Select Java Platform(JDK)

[<http://www.oracle.com/technetwork/java/javase/downloads/index.html>]

The screenshot displays the Oracle Java SE Downloads page. At the top, there is the Oracle logo and a navigation menu with links for Sign In/Register, Help, Country, Communities, I am a..., and I want to..., along with a search bar. Below the navigation is a breadcrumb trail: Oracle Technology Network > Java > Java SE > Downloads. The main content area is titled 'Java SE Downloads' and features two download options: 'Java Platform (JDK) 8u121' and 'NetBeans with JDK 8'. The 'Java Platform (JDK) 8u121' button is highlighted with a red box. Below this, there is a section for 'Java Platform, Standard Edition' with a warning about MD5-signed JARs and download links for JDK, Server JRE, and JRE. The right sidebar contains links for Java SDKs and Tools, Java Resources, and Java.com.

2. Agree to License Agreement and Download appropriate version of JDK([.tar.gz version](#))

### Java SE Development Kit 8 Downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

See also:

- [Java Developer Newsletter](#): From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- [Java Developer Day hands-on workshops \(free\) and other events](#)
- [Java Magazine](#)

JDK 8u121 checksum

### Java SE Development Kit 8u121

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

Accept License Agreement     Decline License Agreement

Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	77.86 MB	<a href="#">jdk-8u121-linux-arm32-vfp-hflt.tar.gz</a>
Linux ARM 64 Hard Float ABI	74.83 MB	<a href="#">jdk-8u121-linux-arm64-vfp-hflt.tar.gz</a>
Linux x86	162.41 MB	<a href="#">jdk-8u121-linux-i586.rpm</a>
Linux x86	177.13 MB	<a href="#">jdk-8u121-linux-i586.tar.gz</a>
Linux x64	159.96 MB	<a href="#">jdk-8u121-linux-x64.rpm</a>
Linux x64	174.76 MB	<a href="#">jdk-8u121-linux-x64.tar.gz</a>
Mac OS X	223.21 MB	<a href="#">jdk-8u121-macosx-x64.dmg</a>
Solaris SPARC 64-bit	139.64 MB	<a href="#">jdk-8u121-solaris-sparcv9.tar.Z</a>
Solaris SPARC 64-bit	99.07 MB	<a href="#">jdk-8u121-solaris-sparcv9.tar.gz</a>
Solaris x64	140.42 MB	<a href="#">jdk-8u121-solaris-x64.tar.Z</a>
Solaris x64	96.9 MB	<a href="#">jdk-8u121-solaris-x64.tar.gz</a>
Windows x86	189.36 MB	<a href="#">jdk-8u121-windows-i586.exe</a>
Windows x64	195.51 MB	<a href="#">jdk-8u121-windows-x64.exe</a>

### Java SE Development Kit 8u121 Demos and Samples Downloads

- Linux/Windows/Mac OS X
- x64 for 64 bit OS / x32 for 32 bit OS

## 3. Open Terminal(Ctrl+Alt+t) and unzip the file

- ls : see files in directory
- cd : move into the directory
- cd .. : move backward
- tar -zxvf <File Name> : unzip .tar.gz file

```
hishin@ubuntu:~$ ls
Desktop/  Downloads/  Music/      Public/     Videos/
Documents/  examples.desktop  Pictures/  Templates/
hishin@ubuntu:~$ cd Downloads/
hishin@ubuntu:~/Downloads$ ls
jdk-8u121-linux-x64.rpm  jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ clear

hishin@ubuntu:~/Downloads$ ls
jdk-8u121-linux-x64.rpm  jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ tar -zxvf jdk-8u121-linux-x64.tar.gz
jdk1.8.0_121/
jdk1.8.0_121/THIRDPARTYLICENSEREADME-JAVAFX.txt
jdk1.8.0_121/THIRDPARTYLICENSEREADME.txt
jdk1.8.0_121/lib/
jdk1.8.0_121/lib/jexec
jdk1.8.0_121/lib/javafx-mx.jar
jdk1.8.0_121/lib/packager.jar
jdk1.8.0_121/lib/visualvm/
jdk1.8.0_121/lib/visualvm/visualvm/
jdk1.8.0_121/lib/visualvm/visualvm/modules/
jdk1.8.0_121/lib/visualvm/visualvm/modules/com-sun-tools-visualvm-attach.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/com-sun-tools-visualvm-host-views.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-sampler_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-uisupport_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-application_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-sampler_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-application-views_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/org-netbeans-core_visualvm.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-tools_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-tools_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-modules-appui_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-jmx_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-coredump_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-sa_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-uisupport_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-jvnstat_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-application_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-host_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-profiling_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-host_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-threaddump_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-attach_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-application-views_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-api-caching_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-core_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-core_zh_CN.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-host-views_ja.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/org-netbeans-modules-profiler_visualvm.jar
jdk1.8.0_121/lib/visualvm/visualvm/modules/locale/com-sun-tools-visualvm-sa_zh_CN.jar
```

## 4. Check '/usr/lib/java' directory exists. If not, make one (needs sudo permission)

- ls <path> : print contents at the <path> directory. If there is no such directory, print error
- mkdir <path> : make a new directory at <path>

```
hishin@ubuntu:~/Downloads$ ls /usr/lib/java
ls: cannot access '/usr/lib/java': No such file or directory
hishin@ubuntu:~/Downloads$ sudo mkdir /usr/lib/java
[sudo] password for hishin:
hishin@ubuntu:~/Downloads$ ls /usr/lib/java
hishin@ubuntu:~/Downloads$ █
```

5. Move unzipped content into /usr/lib/java

- cp <src> <des> : copy <src> contents to <des> contents
- mv <src> <des> : move <src> contents to <des> contents
- \* (asteroid) stands for 'any name'

```
hishin@ubuntu:~/Downloads$ ls
jdk1.8.0_121  jdk-8u121-linux-x64.rpm  jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ ls
jdk1.8.0_121  jdk-8u121-linux-x64.rpm  jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk
jdk1.8.0_121/      jdk-8u121-linux-x64.rpm      jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk
jdk1.8.0_121/      jdk-8u121-linux-x64.rpm      jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk
jdk1.8.0_121/      jdk-8u121-linux-x64.rpm      jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk
jdk1.8.0_121/      jdk-8u121-linux-x64.rpm      jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk
jdk1.8.0_121/      jdk-8u121-linux-x64.rpm      jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk
jdk1.8.0_121/      jdk-8u121-linux-x64.rpm      jdk-8u121-linux-x64.tar.gz
hishin@ubuntu:~/Downloads$ sudo mv jdk1.8.0_121/ /usr/lib/java/
hishin@ubuntu:~/Downloads$
```

6. Edit Environment Variables

- sudo vim /etc/environment : open vim & edit '/etc/environment'
  - if there is no 'vim' installed, you can install one
    - ◆ 'sudo apt-get install vim'
  - Or, you can use gedit
    - ◆ sudo gedit /etc/environment
- add 2 lines at the end of the file
  - PATH=".....:/usr/lib/java/jdk1.7.0\_25"
  - JAVA\_HOME=/usr/lib/java/jdk1.7.0\_25
- Save and apply changes
  - 'sudo source /etc/environment'

7. Link java, javac, javaws commands

- sudo update-alternatives --install /usr/bin/java java /usr/lib/java/<your java file path>/bin/java 1
- sudo update-alternatives --install /usr/bin/javac javac /usr/lib/java/<your java file path>/javac 1
- sudo update-alternatives --install /usr/bin/javaws javaws /usr/lib/java/<your java file path>/javaws 1
- sudo update-alternatives --set java /usr/lib/java/<your java file path>/bin/java
- sudo update-alternatives --set javac /usr/lib/java/<your java file path>/bin/javac
- sudo update-alternatives --set javaws /usr/lib/java/<your java file path>/bin/javaws

8. Check version 'java -version'

- If version comes out successfully, install done.

9. ...or you can install with apt-get easily

- 'sudo apt-get install openjdk-8-jdk'
- version can be updated
- Check version with 'java -version'

10. Download Eclipse and unzip [www.eclipse.org]

- Same as unzipping java files
- tar -zxvf <file path>
- run 'eclipse-inst'

