

How to Install JAVA 8 on CentOS/RHEL 7/6 and Fedora 28-23

Last updated May 3, 2018 by [Rahul K.](#)

[java](#), [java 8](#), [Java_home](#), [jdk](#), [jdk-jre](#), [jre](#), [jre_home](#), [openjdk](#), [oracle java](#), [sun java](#) |

This tutorial helps you to install Java 8 or update Java on your system. Read the instruction carefully before downloading Java from Linux command line. To Install Java 8 in Ubuntu and LinuxMint read [This Article](#).

Step 1 – Download Latest Java Archive

The Oracle team provides Java RPM packages as well as compiled source code. Many times I have tried Java installation using rpm packages but I faced some issues. So I decided to install Java using the compiled source code. Since then I have installed a large number of times Java on CentOS, Redhat based systems without any issues. To download the latest Java SE Development Kit 8 release from its [official download page](#) or use following commands to download from the shell.

```
cd /opt/  
wget --no-cookies --no-check-certificate --header "Cookie: gpw_e  
tar xzf jdk-8u171-linux-x64.tar.gz
```

Step 2 – Install Java 8 with Alternatives

The alternatives command is used for maintained symbolic links. This command used to creates, removes, maintains and displays information about the symbolic links comprising the alternatives system. Let's use the alternatives command to configure Java on your system. The alternatives command is available in chkconfigpackage.

```
cd /opt/jdk1.8.0_171/  
alternatives --install /usr/bin/java java /opt/jdk1.8.0_171/bin/  
alternatives --config java
```

There are 3 programs which provide 'java'.

Selection	Command
* 1	/opt/jdk1.7.0_71/bin/java
+ 2	/opt/jdk1.8.0_45/bin/java
3	/opt/jdk1.8.0_144/bin/java
4	/opt/jdk1.8.0_171/bin/java

Enter to keep the current selection[+], or type selection number

At this point JAVA 8 has been successfully installed on your system. We also recommend to setup javac and jar commands path using alternatives

```
alternatives --install /usr/bin/jar jar /opt/jdk1.8.0_171/bin/ja  
alternatives --install /usr/bin/javac javac /opt/jdk1.8.0_171/bi  
alternatives --set jar /opt/jdk1.8.0_171/bin/jar  
alternatives --set javac /opt/jdk1.8.0_171/bin/javac
```

Step 3 – Check Installed Java Version

Java and javac binaries are available under PATH environment variable. You can use them from anywhere in your system. Let's check the

installed version of Java runtime environment (JRE) on your system by executing the following command.

```
java -version

java version "1.8.0_171"
Java(TM) SE Runtime Environment (build 1.8.0_171-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.171-b11, mixed mode)
```

Step 4 – Setup Java Environment Variables

Most of Java based application's uses environment variables to work. Set the Java environment variables using following commands

Set the JAVA_HOME, JRE_HOME and PATH environment variables.

```
export JAVA_HOME=/opt/jdk1.8.0_171
export JRE_HOME=/opt/jdk1.8.0_171/jre
export PATH=$PATH:/opt/jdk1.8.0_171/bin:/opt/jdk1.8.0_171/jre/bi
```

Also add the above commands to /etc/bashrc file to auto set environment variables on the system boot.