

Installing Oracle JRE or JDK 8 on Debian or Ubuntu Systems

Configure your system to use the latest version of [Oracle Java SE 8 JRE or JDK](#) (1.8u151minimum). Java 9 and later are not supported.

Note: After installing the JDK, you may need to set `JAVA_HOME` to your profile:

- For shell or bash: `export JAVA_HOME=path_to_java_home`
- For csh (C shell): `setenv JAVA_HOME=path_to_java_home`

1. Check which version of the JDK your system is using:

```
$ java -version
```

If the OpenJDK is used, the results should look like:

```
openjdk version "1.8.0_242"  
OpenJDK Runtime Environment (build 1.8.0_242-b09)  
OpenJDK 64-Bit Server VM (build 25.242-b09, mixed mode)
```

If Oracle Java is used, the results should look like:

```
java version "1.8.0_241"  
Java(TM) SE Runtime Environment (build 1.8.0_241-b07)  
Java HotSpot(TM) 64-Bit Server VM (build 25.241-b07, mixed mode)
```

2. If necessary, go to [Oracle Java SE Downloads](#), accept the license agreement, and download the installer for your distribution.

The Oracle JDK License has changed for releases starting April 16, 2019. See [Java SE Development Kit 8 Downloads](#).

Note: If installing the Oracle JDK in a cloud environment, download the installer to your local client, and then use `scp` (secure copy) to transfer the file to your cloud machines.

3. Make a directory for the JDK:

```
$ sudo mkdir -p /usr/lib/jvm
```

4. Extract the tarball and install the JDK:

```
$ sudo tar zxvf jdk-version-linux-x64.tar.gz -C /usr/lib/jvm
```

The JDK files are installed into a directory called `/usr/lib/jvm/jdk-8u_version`.

5. Tell the system that there's a new Java version available:

```
$ sudo update-alternatives --install "/usr/bin/java" "java"  
"/usr/lib/jvm/jdk1.8.0_version/bin/java" 1
```

Note: If updating from a previous version that was removed manually, execute the above command twice, because you'll get an error message the first time.

6. Set the new JDK as the default:

```
$ sudo update-alternatives --set java /usr/lib/jvm/jdk1.8.0_version/bin/java
```

7. Verify the version of the JRE or JDK:

```
$ java -version
```

```
java version "1.8.0_241"
```

```
Java(TM) SE Runtime Environment (build 1.8.0_241-b07)
```

```
Java HotSpot(TM) 64-Bit Server VM (build 25.241-b07, mixed mode)
```