

# Install Java

1- Comprobar si Java esta instalado.

```
daw@daw-VirtualBox:~$ java --version

Command 'java' not found, but can be installed with:

sudo apt install openjdk-11-jre-headless # version 11.0.17+8-1ubuntu2~20.04, or
sudo apt install default-jre             # version 2:1.11-72
sudo apt install openjdk-16-jre-headless # version 16.0.1+9-1~20.04
sudo apt install openjdk-17-jre-headless # version 17.0.5+8-2ubuntu1~20.04
sudo apt install openjdk-8-jre-headless  # version 8u352-ga-1~20.04
sudo apt install openjdk-13-jre-headless # version 13.0.7+5-0ubuntu1~20.04
```

Si no está instalado vamos al buscador para descargar Oracle jdk. En especial el paquete de Debian.

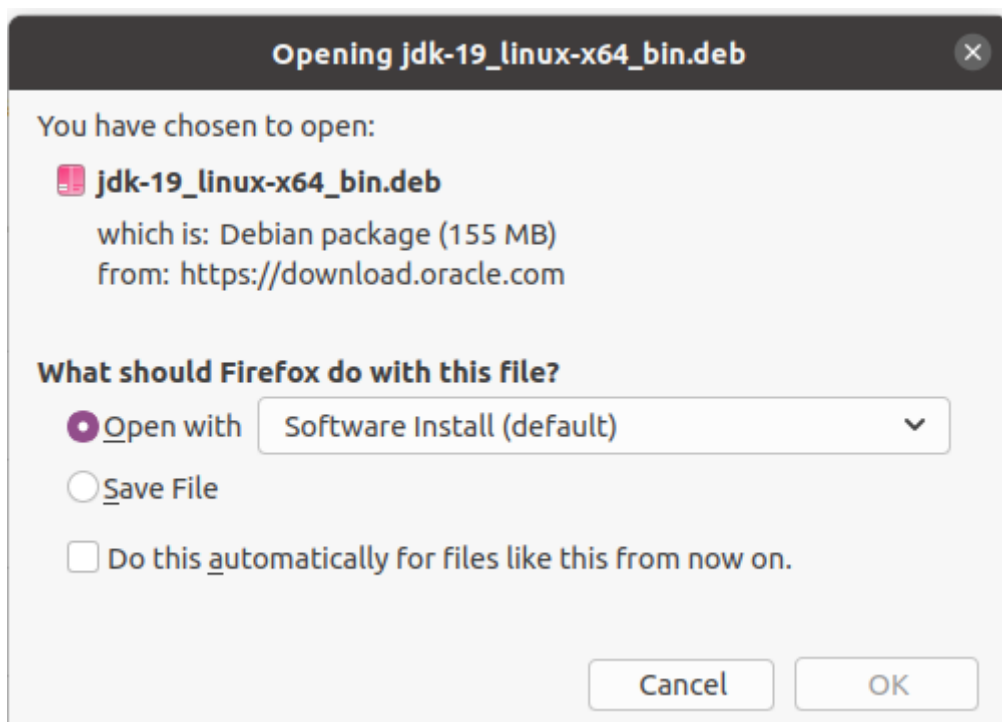
## Java SE Development Kit 19.0.1 downloads

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

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

Linux   macOS   Windows

Product/file description	File size	Download
Arm 64 Compressed Archive	179.90 MB	<a href="https://download.oracle.com/java/19/latest/jdk-19_linux-aarch64_bin.tar.gz">https://download.oracle.com/java/19/latest/jdk-19_linux-aarch64_bin.tar.gz</a> ( sha256)
Arm 64 RPM Package	159.99 MB	<a href="https://download.oracle.com/java/19/latest/jdk-19_linux-aarch64_bin.rpm">https://download.oracle.com/java/19/latest/jdk-19_linux-aarch64_bin.rpm</a> ( sha256)
x64 Compressed Archive	181.11 MB	<a href="https://download.oracle.com/java/19/latest/jdk-19_linux-x64_bin.tar.gz">https://download.oracle.com/java/19/latest/jdk-19_linux-x64_bin.tar.gz</a> ( sha256)
x64 Debian Package	154.77 MB	<a href="https://download.oracle.com/java/19/latest/jdk-19_linux-x64_bin.deb">https://download.oracle.com/java/19/latest/jdk-19_linux-x64_bin.deb</a> ( sha256)



2- Instalamos el paquete

```
daw@daw-VirtualBox:~$ cd Downloads/
daw@daw-VirtualBox:~/Downloads$ ls
jdk-19_linux-x64_bin.deb
daw@daw-VirtualBox:~/Downloads$ sudo dpkg -i jdk-19_linux-x64_bin.deb
[sudo] password for daw:
Selecting previously unselected package jdk-19.
(Reading database ... 181096 files and directories currently installed.)
Preparing to unpack jdk-19_linux-x64_bin.deb ...
Unpacking jdk-19 (19.0.1-ga) ...
dpkg: dependency problems prevent configuration of jdk-19:
 jdk-19 depends on libc6-i386; however:
  Package libc6-i386 is not installed.
 jdk-19 depends on libc6-x32; however:
  Package libc6-x32 is not installed.

dpkg: error processing package jdk-19 (--install):
 dependency problems - leaving unconfigured
Errors were encountered while processing:
 jdk-19
daw@daw-VirtualBox:~/Downloads$ sudo update-alternatives --install /usr/bin/java java /usr/lib/jvm/jdk-19/bin/java 1
update-alternatives: using /usr/lib/jvm/jdk-19/bin/java to provide /usr/bin/java (java) in auto mode
daw@daw-VirtualBox:~/Downloads$ sudo update-alternatives --install /usr/bin/javac javac /usr/lib/jvm/jdk-19/bin/javac 1
update-alternatives: using /usr/lib/jvm/jdk-19/bin/javac to provide /usr/bin/javac (javac) in auto mode
daw@daw-VirtualBox:~/Downloads$ java --version
java 19.0.1 2022-10-18
Java(TM) SE Runtime Environment (build 19.0.1+10-21)
Java HotSpot(TM) 64-Bit Server VM (build 19.0.1+10-21, mixed mode, sharing)
daw@daw-VirtualBox:~/Downloads$ javac --version
javac 19.0.1
```

### 3- Configurar

```
daw@daw-VirtualBox:~/Downloads$ sudo update-alternatives --config java
There is only one alternative in link group java (providing /usr/bin/java): /usr/lib/jvm/jdk-19/bin/java
Nothing to configure.
daw@daw-VirtualBox:~/Downloads$ sudo gedit /etc/profile
```

```

1 # /etc/profile: system-wide .profile file for the Bourne shell (sh(1))
2 # and Bourne compatible shells (bash(1), ksh(1), ash(1), ...).
3
4 if [ "${PS1:-}" ]; then
5   if [ "${BASH:-}" ] && [ "$BASH" != "/bin/sh" ]; then
6     # The file bash.bashrc already sets the default PS1.
7     # PS1='\h:\w\$ '
8     if [ -f /etc/bash.bashrc ]; then
9       . /etc/bash.bashrc
10    fi
11  else
12    if [ "`id -u`" -eq 0 ]; then
13      PS1='# '
14    else
15      PS1='$ '
16    fi
17  fi
18 fi
19
20 if [ -d /etc/profile.d ]; then
21   for i in /etc/profile.d/*.sh; do
22     if [ -r $i ]; then
23       . $i
24     fi
25   done
26   unset i
27 fi
28
29 JAVA_HOME=/usr/lib/jvm/jdk-19
```

```
daw@daw-VirtualBox:~/Downloads$ sudo update-alternatives --config java
There is only one alternative in link group java (providing /usr/bin/java): /usr/lib/jvm/jdk-19/bin/java
Nothing to configure.
daw@daw-VirtualBox:~/Downloads$ sudo gedit /etc/profile
(gedit:4644): Tepl-WARNING **: 18:57:03.749: GVfs metadata is not supported. Fallback to TeplMetadataManager. Either GVfs is not correctly in
stalled or GVfs metadata are not supported on this platform. In the latter case, you should configure Tepl with --disable-gvfs-metadata.
daw@daw-VirtualBox:~/Downloads$ source /etc/profile
daw@daw-VirtualBox:~/Downloads$ echo $JAVA_HOME
/usr/lib/jvm/jdk-19
daw@daw-VirtualBox:~/Downloads$
```

### 4- Comprobar

```
daw@daw-VirtualBox:~$ mkdir work
cdaw@daw-VirtualBox:~$ cd work/
daw@daw-VirtualBox:~/work$ touch hello.java
daw@daw-VirtualBox:~/work$ ls
hello.java
daw@daw-VirtualBox:~/work$ gedit hello.java
^C
daw@daw-VirtualBox:~/work$ javac hello.java
daw@daw-VirtualBox:~/work$ ls
hello.java  HelloWorld.class
daw@daw-VirtualBox:~/work$ java HelloWorld
Hello, World!
daw@daw-VirtualBox:~/work$
```