

# MANUAL DE INSTALACION ‘JDK’

Ubuntu 16.04

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Prebecario #18

1. Añadimos repositorio necesario, en este caso es ppa de Oracle.

*sudo add-apt-repository ppa:webupd8team/java*

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo add-apt-repository ppa:webupd8team/java
[sudo] password for anallely:
Oracle Java (JDK) Installer (automatically downloads and installs Oracle JDK8). There are no actual Java files in this PPA.

Important -> Why Oracle Java 7 And 6 Installers No Longer Work: http://www.webupd8.org/2017/06/why-oracle-java-7-and-6-installers-no.html

Update: Oracle Java 9 has reached end of life: http://www.oracle.com/technetwork/java/javase/downloads/jdk9-downloads-3848520.html

The PPA supports Ubuntu 18.04, 17.10, 16.04, 14.04 and 12.04.

More info (and Ubuntu installation instructions):
- for Oracle Java 8: http://www.webupd8.org/2012/09/install-oracle-java-8-in-ubuntu-via-ppa.html

Debian installation instructions:
- Oracle Java 8: http://www.webupd8.org/2014/03/how-to-install-oracle-java-8-in-debian.html

For Oracle Java 10, see a different PPA: https://www.linuxuprising.com/2018/04/install-oracle-java-10-in-ubuntu-or.html
More info: https://launchpad.net/~webupd8team/+archive/ubuntu/java
Press [ENTER] to continue or ctrl-c to cancel adding it
```

2. Actualizamos la base de datos para que tome el repositorio

*sudo apt-get update*

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo apt-get update
Hit:1 http://security.ubuntu.com/ubuntu xenial-security InRelease
Hit:2 http://ppa.launchpad.net/webupd8team/java/ubuntu xenial InRelease
Hit:3 http://mx.archive.ubuntu.com/ubuntu xenial InRelease
Hit:4 http://mx.archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:5 http://ppa.launchpad.net/webupd8team/sublime-text-3/ubuntu xenial InRelease
Hit:6 http://mx.archive.ubuntu.com/ubuntu xenial-backports InRelease
0% [3 InRelease gpgv 247 kB]
```

3. Instalamos la version 8 de Java ya que es la mas reciente y estable.

*sudo apt-get install oracle-java8-installer*

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo apt-get install oracle-java8-installer
Reading package lists... Done
Building dependency tree
Reading state information... Done
oracle-java8-installer is already the newest version (8u181-1~webupd8~1).
0 upgraded, 0 newly installed, 0 to remove and 70 not upgraded.
anallely@anallely-AOA150:~$
```

4. Con los siguientes comandos nos es posible gestionar diferentes versiones de JDK. En este caso, como solamente tengo instalada la version 8, solo me da esa opción.

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo update-alternatives --config java
There is 1 choice for the alternative java (providing /usr/bin/java).

  Selection    Path                                          Priority  Status
  -----
0            /usr/lib/jvm/java-8-oracle/jre/bin/java      1081     auto mode
* 1            /usr/lib/jvm/java-8-oracle/jre/bin/java      1081     manual mode

Press <enter> to keep the current choice[*], or type selection number: 
```

5. Establecemos que version de compilador queremos utilizar

*Sudo update-alternatives --config javac*

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo update-alternatives --config javac
There is 1 choice for the alternative javac (providing /usr/bin/javac).

  Selection    Path                                          Priority  Status
  -----
0            /usr/lib/jvm/java-8-oracle/bin/javac        1081     auto mode
* 1            /usr/lib/jvm/java-8-oracle/bin/javac        1081     manual mode

Press <enter> to keep the current choice[*], or type selection number: 
```

6. Establecemos que generador de documentacion Java queremos utilizar

*Sudo update-alternatives --config javadoc*

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo update-alternatives --config javadoc
There is 1 choice for the alternative javadoc (providing /usr/bin/javadoc).

  Selection    Path                                          Priority  Status
  -----
0            /usr/lib/jvm/java-8-oracle/bin/javadoc      1081     auto mode
* 1            /usr/lib/jvm/java-8-oracle/bin/javadoc      1081     manual mode

Press <enter> to keep the current choice[*], or type selection number:
anallely@anallely-AOA150:~$ 
```

7. Establecemos que version de herramienta de firmado JAR queremos utilizar

*Sudo update-alternatives --config jarsigner*

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo update-alternatives --config jarsigner
There is 1 choice for the alternative jarsigner (providing /usr/bin/jarsigner).

  Selection    Path                                          Priority    Status
  -----
0             /usr/lib/jvm/java-8-oracle/bin/jarsigner    1081       auto mode
* 1           /usr/lib/jvm/java-8-oracle/bin/jarsigner    1081       manual mode

Press <enter> to keep the current choice[*], or type selection number:
anallely@anallely-AOA150:~$
```

8. Configuramos la variable de entorno. Usamos el comando “*sudo update-alternatives --config java*” y copiamos la ruta de la version a utilizar

```
@anallely-AOA150: ~
anallely@anallely-AOA150:~$ sudo update-alternatives --config java
There is 1 choice for the alternative java (providing /usr/bin/java).

  Selection    Path                                          Priority    Status
  -----
0             /usr/lib/jvm/java-8-oracle/jre/bin/java     1081       auto mode
* 1           /usr/lib/jvm/java-8-oracle/jre/bin/java     1081       manual mode

Press <enter> to keep the current choice[*], or type selection number:
anallely@anallely-AOA150:~$
```

9. Abrimos archivo de configuracion con el comando “*sudo nano /etc/environment*” Y añadimos la linea `JAVA_HOME=`”inserta aqui la ruta copiada en el paso anterior”. Guardamos y salimos del editor.

```
@anallely-AOA150: ~
GNU nano 2.5.3      File: /etc/environment      Modified

PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games"
JAVA_HOME="/usr/lib/jvm/java-8-oracle/jre/bin/java"
```

10. Para que todo funcione de manera correcta se carga la configuracion con el comando: *source /etc/environment*

```
y@anallely-AOA150: ~  
anallely@anallely-AOA150:~$ source /etc/environment  
anallely@anallely-AOA150:~$
```

11. Para asegurarnos que todo se configuro correctamente imprimimos el valor de la variable `$JAVA_HOME`

*echo \$JAVA\_HOME*

```
anallely@anallely-AOA150:~$ echo $JAVA_HOME  
/usr/lib/jvm/java-8-oracle/jre/bin/java  
anallely@anallely-AOA150:~$
```