

Java

Java JRE Java Runtime Environment Plugin Mozilla Iceweasel

Descarga versiones antiguas de java

<http://www.oracle.com/technetwork/java/javase/archive-139210.html>

JRE

Existen dos alternativas fundamentalmente para Debian:

- OpenJDK
- Sun Java. Parece ser que la version 7 tiene algun tipo de copyright restrictivo que lo hace incompatible con Debian, por lo que no existe como paquete

OpenJDK

```
sudo aptitude update; sudo aptitude install openjdk-6
```

NOTA: parece ser que la version 7 no tiene todavia el plugin para iceweasel

SUN JRE

1. Descargar el JRE de Oracle:

https://www.java.com/en/download/linux_manual.jsp

En mi caso "Linux x64":

http://javadl.oracle.com/webapps/download/AutoDL?BundleId=233162_512cd62ec5174c3487ac17c61aaa89e8

2. Descomprimirlo en /opt

```
sudo cp /path/to/jre-8u171-linux-x64.tar.gz /opt
cd /opt
sudo tar xzf jre-8u171-linux-x64.tar.gz
sudo ln -s jre1.8.0_171 java
```

3. Instalar la alternativa:

```
sudo update-alternatives --install /usr/bin/java java /opt/java/bin/java 2
```

4. Activarla:

```
sudo update-alternatives --config java
```

5. Seleccionar la entrada que acabamos de crear, en nuestro caso la opción 1:

```
There are 2 choices for the alternative java (providing /usr/bin/java).
```

Selection Status	Path	Priority
0	/usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java	1081
auto mode		
* 1	/opt/java/bin/java	2
manual mode		
2	/usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java	1081
manual mode		

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

6. Comprobar que tenemos la versión de Oracle de java:

```
java -version
```

Salida esperada:

```
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)
```

SUN JRE via java-package
<https://wiki.debian.org/JavaPackage>

1. Add a "contrib" component to /etc/apt/sources.list, for example:

```
# Debian 7 "Wheezy"
deb http://http.debian.net/debian/ wheezy main contrib
```

2. Update the list of available packages and install the java-package package:

```
sudo apt-get update && sudo apt-get install java-package
```

3. Download the desired Java JDK/JRE binary distribution (Oracle). Choose tar.gz archives or self-extracting archives, do not choose the RPM!

4. Use java-package to create a Debian package, for example:

```
make-jpkg jdk-7u45-linux-x64.tar.gz
```

5. Install the binary package created:

```
sudo dpkg -i oracle-j2sdk1.7_1.7.0+update45_amd64.deb
```

6. Hcerlo default

6.1. Obtener listado:

```
sudo update-alternatives --list java

/usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java
/usr/lib/jvm/jdk-8-oracle-x64/jre/bin/java
```

Y:

```
sudo update-java-alternatives -l

java-1.7.0-openjdk-amd64 1071 /usr/lib/jvm/java-1.7.0-openjdk-amd64
jdk-8-oracle-x64 318 /usr/lib/jvm/jdk-8-oracle-x64
```

6.2. Seleccionar:

```
sudo update-alternatives --set java /usr/lib/jvm/jdk-8-oracle-x64/jre/bin/java
sudo update-java-alternatives -s jdk-8-oracle-x64
```

Plugin para iceweasel

OpenJDK

Probado en Jessie:

```
sudo aptitude install icedtea-plugin
```

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2. Descomprimirlo en /opt

```
sudo cp /path/to/jre-8u171-linux-x64.tar.gz /opt
cd /opt
sudo tar xzf jre-8u171-linux-x64.tar.gz
sudo ln -s jre1.8.0_171 java
```

3. Instalar la alternativa:

```
sudo update-alternatives --install /usr/lib/mozilla/plugins/libjavaplugin.so
mozilla-javaplugin.so /opt/java/lib/amd64/libnpjp2.so 1
```

4. Activarla:

```
sudo update-alternatives --config mozilla-javaplugin.so
```

5. Seleccionar la entrada que acabamos de crear, en nuestro caso la opción 1:

There are 2 choices for the alternative mozilla-javaplugin.so (providing /usr/lib/mozilla/plugins/libjavaplugin.so).

Selection	Path	Priority	Status
0	/usr/lib/jvm/java-8-openjdk-amd64/jre/lib/amd64/IcedTeaPlugin.so	1081	auto mode
* 1	/opt/java/lib/amd64/libnpjp2.so		manual mode
2	/usr/lib/jvm/java-8-openjdk-amd64/jre/lib/amd64/IcedTeaPlugin.so	1081	manual mode

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

6. Cerrar (si está abierto firefox) y volver a abrir

7. Teclar en la barra de navegación:

```
about:plugins
```

Salida esperada:

Java(TM) Plug-in 11.171.2

```
File: libnpjp2.so
Path: /opt/jre1.8.0_171/lib/amd64/libnpjp2.so
Version: 11.171.2
State: Enabled
Next Generation Java Plug-in 11.171.2 for Mozilla browsers
```

MIME Type	Description	Suffixes
application/x-java-vm	Java Plug-in	
application/x-java-applet	Java Plug-in Applet	

```
application/x-java-bean Java#153 Plug-in JavaBeans
application/x-java-applet;version=1.1 Java#153 Plug-in
application/x-java-bean;version=1.1 Java#153 Plug-in
application/x-java-applet;version=1.1.1 Java#153 Plug-in
application/x-java-bean;version=1.1.1 Java#153 Plug-in
application/x-java-applet;version=1.1.2 Java#153 Plug-in
application/x-java-bean;version=1.1.2 Java#153 Plug-in
application/x-java-applet;version=1.1.3 Java#153 Plug-in
application/x-java-bean;version=1.1.3 Java#153 Plug-in
application/x-java-applet;version=1.2 Java#153 Plug-in
application/x-java-bean;version=1.2 Java#153 Plug-in
application/x-java-applet;version=1.2.1 Java#153 Plug-in
application/x-java-bean;version=1.2.1 Java#153 Plug-in
application/x-java-applet;version=1.2.2 Java#153 Plug-in
application/x-java-bean;version=1.2.2 Java#153 Plug-in
application/x-java-applet;version=1.3 Java#153 Plug-in
application/x-java-bean;version=1.3 Java#153 Plug-in
application/x-java-applet;version=1.3.1 Java#153 Plug-in
application/x-java-bean;version=1.3.1 Java#153 Plug-in
application/x-java-applet;version=1.4 Java#153 Plug-in
application/x-java-bean;version=1.4 Java#153 Plug-in
application/x-java-applet;version=1.4.1 Java#153 Plug-in
application/x-java-bean;version=1.4.1 Java#153 Plug-in
application/x-java-applet;version=1.4.2 Java#153 Plug-in
application/x-java-bean;version=1.4.2 Java#153 Plug-in
application/x-java-applet;version=1.5 Java#153 Plug-in
application/x-java-bean;version=1.5 Java#153 Plug-in
application/x-java-applet;version=1.6 Java#153 Plug-in
application/x-java-bean;version=1.6 Java#153 Plug-in
application/x-java-applet;version=1.7 Java#153 Plug-in
application/x-java-bean;version=1.7 Java#153 Plug-in
application/x-java-applet;jpi-version=1.8.0_171 Java#153 Plug-in
application/x-java-bean;jpi-version=1.8.0_171 Java#153 Plug-in
application/x-java-applet;version=1.8 Java#153 Plug-in
application/x-java-bean;version=1.8 Java#153 Plug-in
application/x-java-applet;deploy=11.171.2 Java#153 Plug-in
application/x-java-applet;javafx=8.0.171 Java#153 Plug-in
application/x-java-vm-npruntime Java#153 Plug-in
```

Error eclipse y java solo debian

Leer <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=560142#35>

Solución:

1. Editar:

```
mv /etc/sysctl.d/bindv6only.conf /etc/sysctl.d/bindv6only.conf.falla
```

Y dejar la linea tal que así:

```
net.ipv6.bindv6only = 0
```

Grabar y salir

2. No se si hace falta reiniciar algún servicio para que los cambios tomen efecto, yo reinicié el ordenador

Descomprimir .jar

```
jar xf mi_archivo.jar
```

Java Media Framework

A mi solo me funciona con eclipse, no consigo exportar las variables para que tire.

1. Descargar:

https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewProductDetail-Start?ProductRef=7372-jmf-2.1.1e-oth-JPR@CDS-CDS_Developer

2. Seleccionar 'Linux', marcar la aceptación de la licencia y pulsar 'Continue »'

3. Marcar 'Cross-platform Java' y pulsar sobre el enlace 'jmf-2_1_1e-alljava.zip'

4. Descomprimir el .zip por ejemplo en:

```
/usr/local/lib
```

5. Arrancar eclipse

6. Seleccionar Window/Preferences/Java/Installed JREs

7. Si no estuviera seleccionado 'java-6-sun-xxx' pulsar sobre el botón 'Add...'

8. Navegar hasta:

```
/usr/lib/jvm/java-6-sun
```

NOTA: si no existe ese directorio, instalar:

```
aptitude update && aptitude install sun-java6-jre
```

9. Pulsar sobre el botón 'Ok'

Bluetooth

Si se obtiene el siguiente error intentando ejecutar una aplicación con las bibliotecas bluecove:

```
Native Library bluecove not available
```

Solución:

```
sudo aptitude install libbluetooth-dev
```

Anyadir certificado a keystore de Firefox

<http://proxyinverso.blogspot.com.es/2014/09/anadir-un-certificado-al-almacen-de.html>

```
keytool -importkeystore -srckeystore /xxxx/xxxx/xxxx/certificado.p12 -  
srcstoretype pkcs12 -destkeystore  
/home/usuarioxxx/.java/deployment/security/trusted.clientcerts
```

A continuacion teclear 3 veces **una contrasenia fuerte**, sino obtendreis este error:

```
keytool error: java.io.IOException: failed to decrypt safe contents entry:  
javax.crypto.BadPaddingException: Given final block not properly padded
```

Cambiar máquina de java

Compilando paquete

Nos bajamos el fichero de la máquina java que queremos instalar:

```
jdk-7u80-linux-x64.tar.gz
```

Ahora lo tenemos que convertir en paquete debian para poder cambiar como alternativa.

Instalamos java-package. Como usuario no root ejecutamos:

```
make-jpkg jdk-7u80-linux-x64.tar.gz
```

Nos crea el paquete:

```
oracle-java7-jdk_7u80_amd64.deb
```

Instalamos el paquete y nos aparece como alternativa.

Descomprimiendo jvm de forma manual

Descomprimos la JVM en `/usr/lib/jvm/jdk1.7.0_80/`

Luego lo añadimos como alternativa para java y javac. El último número es la prioridad:

```
update-alternatives --install /usr/bin/java java
/usr/lib/jvm/jdk1.7.0_80/bin/java 100

update-alternatives --install /usr/bin/javac javac
/usr/lib/jvm/jdk1.7.0_80/bin/javac 100
```

Cambiando de JVM

Ahora seleccionamos la nueva jvm:

```
# update-alternatives --config java
Existen 2 opciones para la alternativa java (que provee /usr/bin/java).
```

Selección	Ruta	Prioridad
0	/usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java	1071
modo automático		
1	/usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java	1071
modo manual		
* 2	/usr/lib/jvm/jdk1.7.0_80/bin/java	100
modo manual		

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