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## Install Oracle JDK 8 on Linux



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 5 years ago

Oracle Java is the proprietary, reference implementation for Java. This article shows you the way to **manually install** Oracle Java Development Kit 8 (Oracle JDK) on Linux.



Note: This article is using *JDK8\_Update\_311* to demonstrate the installation. In the provided commands, replace the version specific paths and file names to your downloaded version.



Oracle JDK 16 has been released



Version specific installation guides are available here:

- 
- [Install Oracle JDK 8 on Linux](#)
- [Install Oracle JDK 11 on Linux](#)
- [Install Oracle JDK 16 on Linux](#)
- [Install Oracle JDK 17 on Linux](#) (The latest version)
- [Install the latest Oracle JDK on Linux](#) (Permanent link to install the latest version)

### Step 1:

Download the latest JDK([jdk-8u311-linux-x64.tar.gz](#)) from this official site.



## 📄 DOWNLOAD

If you want to download to a remote server or if you simply prefer `wget`, use the command given in this Stackoverflow answer: [Downloading JDK](#)

### Step 2:

Open the terminal (*Ctrl + Alt + T*) and enter the following command.

```
sudo mkdir /usr/lib/jvm
```

If the `/usr/lib/jvm` folder does not exist, this command will create the directory. If you already have this folder, you can ignore this step and move to next step.

### Step 3:

Enter the following command to change the directory.

```
cd /usr/lib/jvm
```

### Step 4:

Extract the `jdk-8u311-linux-x64.tar.gz` file in that directory using this command.

```
sudo tar -xvzf ~/Downloads/jdk-8u311-linux-x64.tar.gz
```



Start

```
sudo gedit /etc/environment
```

**Step 6:**

In the opened file, add the following bin folders to the existing PATH variable.

```
/usr/lib/jvm/jdk1.8.0_311/bin  
/usr/lib/jvm/jdk1.8.0_311/db/bin  
/usr/lib/jvm/jdk1.8.0_311/jre/bin
```

The PATH variables have to be separated by a colon.

Notice that the installed JDK version is 1.8 update 311. Depending on your JDK version, the paths can be different.

Add the following environment variables at the end of the file.

```
J2SDKDIR="/usr/lib/jvm/jdk1.8.0_311"  
J2REDIR="/usr/lib/jvm/jdk1.8.0_311/jre"  
JAVA_HOME="/usr/lib/jvm/jdk1.8.0_311"  
DERBY_HOME="/usr/lib/jvm/jdk1.8.0_311/db"
```

The environment file before the modification:

```
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/
```

The environment file after the modification:

```
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/  
J2SDKDIR="/usr/lib/jvm/jdk1.8.0_311"  
J2REDIR="/usr/lib/jvm/jdk1.8.0_311/jre"  
JAVA_HOME="/usr/lib/jvm/jdk1.8.0_311"  
DERBY_HOME="/usr/lib/jvm/jdk1.8.0_311/db"
```

Save the changes and close the gedit. To learn more about setting environment



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```
sudo update-alternatives --install "/usr/bin/javac" "javac" "/usr/lib/jv
```

```
sudo update-alternatives --set java /usr/lib/jvm/jdk1.8.0_311/bin/java
```

```
sudo update-alternatives --set javac /usr/lib/jvm/jdk1.8.0_311/bin/javac
```

### Step 8:

To verify the setup enter the following commands and make sure that they print the location of java and javac as you have provided in the previous step.

```
update-alternatives --list java
```

```
update-alternatives --list javac
```

### Step 9:

Restart the computer (or just log-out and login) and open the terminal again.

