

Install the Oracle JDK 1.8 Java

Use the following instructions to manually install JDK 1.8: Verify that you have /usr/java directory If not, create one:

```
[root@Canberra ~]# mkdir /usr/java
```

Download the Oracle 64-bit JDK jdk-8u73-linux-x64.tar.gz) from the Oracle download site. Open a web browser and navigate to <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>.

Copy the downloaded jdk.tar.gz file to the /usr/java directory. Navigate to the /usr/java directory and extract the jdk.tar.gz file.

```
[root@Canberra java]# tar zxvf jdk-8u73-linux-x64.tar.gz
```

The JDK files will be extracted into a /usr/java/jdk1.8.0_73 directory.

Create a symbolic link (symlink) to the JDK:

```
[root@Canberra java]# ln -s /usr/java/jdk1.8.0_73/usr/java/default
```

Or use the console wget

Download the latest java JDK from Oracle notice I have intentionally changed directory to /usr/java because this where I want to install the Java

```
[root@Canberra ~]# cd /usr/java
[root@Canberra tmp]# wget --no-check-certificate --no-cookies --header "Cookie:
oraclelicense=accept-securebackup-cookie" http://download.oracle.com/otn-
pub/java/jdk/8u73-b02/jdk-8u73-linux-x64.tar.gz
--2016-03-20 13:48:47-- http://download.oracle.com/otn-pub/java/jdk/8u73-b02/jdk-8u73-
linux-x64.tar.gz
Resolving download.oracle.com... 173.222.108.58, 173.222.108.48
Connecting to download.oracle.com|173.222.108.58|:80... connected.
Connecting to download.oracle.com|173.222.108.58|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 181310701 (173M) [application/x-gzip]
Saving to: "jdk-8u73-linux-x64.tar.gz"
100%[=====>] 181,310,701 4.42M/s
in 35s
2016-03-20 13:49:23 (4.90 MB/s) - "jdk-8u73-linux-x64.tar.gz" saved [181310701/181310701]
```

Configure the alternatives

```
[root@Canberra bin]# cd /usr/java
[root@Canberra java]# tar xzf jdk-8u73-linux-x64.gz
[root@Canberra bin]# alternatives --install /usr/bin/java java /usr/java/jdk1.8.0_73/bin/java 2
[root@Canberra bin]# alternatives --config java
There are 3 programs which provide 'java'.
```

Selection	Command
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```
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* 1      /usr/lib/jvm/jre-1.7.0-openjdk.x86_64/bin/java
  2      /usr/lib/jvm/jre-1.6.0-openjdk.x86_64/bin/java
+ 3      /usr/java/jdk1.8.0_73/bin/java
Enter to keep the current selection[+], or type selection number: 3
```

At this point JAVA 8 has been successfully installed on your system. Its recommended to setup javac and jar commands path using alternatives Use the following commands to configure Java alternatives:

```
[root@Canberra]# alternatives --install /usr/bin/jar jar /usr/java/jdk1.8.0_73/bin/jar 2
[root@Canberra]# alternatives --install /usr/bin/javac javac /usr/java/jdk1.8.0_73/bin/javac 2
[root@Canberra]# alternatives --set jar /usr/java/jdk1.8.0_73/bin/jar
[root@Canberra]# alternatives --set javac /usr/java/jdk1.8.0_73/bin/javac
```

Check the java version

```
[root@Canberra jdk1.8.0_73]# java -version
java version "1.8.0_73"
Java(TM) SE Runtime Environment (build 1.8.0_73-b02)
Java HotSpot(TM) 64-Bit Server VM (build 25.73-b02, mixed mode)
```

Optional Update the Java environmental variables

Set the following configuration in the . profile of the hadoop user

```
#Setup JAVA_HOME Variable
export JAVA_HOME=/usr/java/jdk1.8.0_73
#Setup JRE_HOME Variable
export JRE_HOME=/usr/java/jdk1.8.0_73/jre
#Setup PATH Variable
export PATH=$PATH:/usr/java/jdk1.8.0_65/bin:/usr/java/jdk1.8.0_73/jre /bin
```