

By: Koen Vlaswinkel



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How To Install Java on Ubuntu with Apt-Get

105

Posted February 13, 2014

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JAVA

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Introduction

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This is the recommended and easiest option. This will install OpenJDK 6 or earlier and on 12.10+ it will install OpenJDK 7.

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Installing Java with `apt-get` is easy. First, update the package index:

```
sudo apt-get update
```

Then, check if Java is not already installed:

```
java -version
```

If it returns "The program java can be found in the following packages", Java hasn't been installed yet, so execute the following command:

```
sudo apt-get install default-jre
```

This will install the Java Runtime Environment (JRE). If you instead need the Java Development Kit (JDK), which is usually needed to compile Java applications (for example [Apache Ant](#), [Apache Maven](#), [Eclipse](#) and [IntelliJ IDEA](#) execute the following command:

```
sudo apt-get install default-jdk
```

That is everything that is needed to install Java.

All other steps are optional and must only be executed when needed.

Installing OpenJDK 7 (optional)

To install OpenJDK 7, execute the following command:

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```
sudo apt-get install openjdk-7-jdk
```

Installing Oracle JDK (optional)

The Oracle JDK is the official JDK; however, it is no longer provided by Oracle as a default installation for Ubuntu.

You can still install it using apt-get. To install any version, first execute the following commands:

```
sudo apt-get install python-software-properties
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update
```

Then, depending on the version you want to install, execute one of the following commands:

Oracle JDK 6

This is an old version but still in use.

```
sudo apt-get install oracle-java6-installer
```

Oracle JDK 7

This is the latest stable version.

```
sudo apt-get install oracle-java7-installer
```

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al

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

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Managing Java (optional)

When there are multiple Java installations on your Droplet, the Java version to use as default can be chosen. To do this, execute the following command:

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

It will usually return something like this if you have 2 installations (if you have more, it will of course return more):

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

| Selection | Path | Priority | Status |
|-----------|--|----------|-----------|
| * 0 | /usr/lib/jvm/java-7-oracle/jre/bin/java | 1062 | auto mode |
| 1 | /usr/lib/jvm/java-6-openjdk-amd64/jre/bin/java | 1061 | manual mo |
| 2 | /usr/lib/jvm/java-7-oracle/jre/bin/java | 1062 | manual mo |

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

You can now choose the number to use as default. This can also be done for the Java compiler (javac):

```
sudo update-alternatives --config javac
```

It is the same selection screen as the previous command and should be used in the same way. This command can be executed for all other commands which have different installations. In Java, this includes but is not limited to: keytool , javadoc and jarsigner .

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

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It returns something like:

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

| Selection | Path | Priority | Status |
|-----------|--|----------|-----------|
| ----- | | | |
| * 0 | /usr/lib/jvm/java-7-oracle/jre/bin/java | 1062 | auto mode |
| 1 | /usr/lib/jvm/java-6-openjdk-amd64/jre/bin/java | 1061 | manual mo |
| 2 | /usr/lib/jvm/java-7-oracle/jre/bin/java | 1062 | manual mo |

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

The path of the installation is for each:

1. /usr/lib/jvm/java-7-oracle
2. /usr/lib/jvm/java-6-openjdk-amd64
3. /usr/lib/jvm/java-7-oracle

Copy the path from your preferred installation and then edit the file `/etc/environment`:

```
sudo nano /etc/environment
```

In this file, add the following line (replacing `YOUR_PATH` by the just copied path):

```
JAVA_HOME="YOUR_PATH"
```

That should be enough to set the environment variable. Now reload this file:

so

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```
echo $JAVA_HOME
```


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If it returns the just set path, the environment variable has been set successfully. If it doesn't, please make sure you followed all steps correctly.

Submitted by: Koen Vlaswinkel

By: Koen Vlaswinkel

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[janusz.pachucki](#) April 1, 2014

0 Thank you for very clear tutorial, jp

[richu.susan](#) April 6, 2014

0 Very good tutorial...
Thank you :)

[jformoso](#) April 30, 2014

0 Java 8 instructions are outdated

[asb](#) MOD April 30, 2014

0 @jformoso: What is the problem you're seeing? What version of Ubuntu are you trying to install it on?

[ashish](#) May 10, 2014

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This was to install the oracle-jdk on an Ubuntu 12.10x64 droplet

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[paolofinamore](#) *June 3, 2014*

0 Thank you from Rome, very good tutorial ;)

[david.medinets](#) *June 4, 2014*

0 Thanks for the tutorial. I needed to add "-y" to the add-apt-repository.

[anandsbj1989](#) *June 12, 2014*

0 Thanks for the tutorial. It is very needful.
I set this JAVA_HOME path but I also want know "how to set a path for MAVEN?
please guide me in this regard.

[asb](#) **MOD** *June 12, 2014*

0 @anandsbj1989: It depends on how you installed Maven. If you ran:

```
sudo apt-get install maven2
```

Then you would use "/usr/share/maven2/"

[mannuel](#) *July 10, 2014*

0 amazing tutorial thanks.

[saikumarm4](#) *July 19, 2014*

0 Thank you for the tutorial

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[sherry](#) *August 5, 2014*

On x64 ubuntu 12.04 I get these unmet dependency errors while following the instructions on this page (oracle java and openjdk):

The following packages have unmet dependencies:

oracle-java7-installer : Depends: java-common (>= 0.24) but it is not installable
Recommends: gsfonts-x11 but it is not installable

Since I only needed Java as a dependency for Elasticsearch, it's OK for me to install openjdk so I resolved it by following [these steps](#)

[besteban1989](#) August 19, 2014

Great, it help me a lot.

[ksidibe](#) September 2, 2014

It should be noted that you must logout or reboot in order for the environment variables to be reloaded and for "echo \$JAVA_HOME" to show the newly set value.

[ferch1310](#) September 8, 2014

Hi! Im trying to install a sqlfire into a linux red hat enterprise 6.5 (Santiago) s390x for a system Z. But my java version is "1.5.0" and i need 1.6. I downloaded ibm-java-s390x-sdk-7.1-1.0.bin from ibm page and all like install good but when i do java -version i have "1.5.0" again. Does anyone could help me to install a java version 1.6? Thanks and grettings from Mexico

[ricpue](#) September 13, 2014

very helpful, thanks!

Ric

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[dijas](#) October 1, 2014

thanks.

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love it

[ndwiga](#) October 9, 2014

0 Does anyone know how i can get JVM 1.4 install on ubuntu 14 droplet.

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