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Ubuntu Linux Install Sun Java Development Kit (JDK) and Java Runtime Environment (JRE)

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Q. How do I install Sun Java Development Kit (JDK) and Java Runtime Environment (JRE) under Ubuntu Linux? It appears that there are multiple JRE installed by default under Ubuntu. How do I select and use Sun JRE only? Can you explain steps required to set the environment to run java programs or apps?

[1]

A. Ubuntu Linux 7.10 has following packages from Sun:
=> **sun-java6-bin** : Sun Java Runtime Environment (JRE) 6

=> **sun-java6-demo** : Sun Java Development Kit (JDK) 6 demos

=> **sun-java6-jdk** : Sun Java Development Kit (JDK) 6

=> **sun-java6-jre** : Sun Java Runtime Environment (JRE) 6

Install Sun Java 6

To install proprietary Java, you must have the Multiverse repository enabled. Click on System > Administration > Software Source > Select Multisource > Close

Downloadable from the Internet

- ☑ Canonical-supported Open Source software (main)
- ☑ Community-maintained Open Source software (universe)
- ☑ Proprietary drivers for devices (restricted)
- ☑ Software restricted by copyright or legal issues (multiverse)
- ☐ Source code   [2]

Open a shell prompt (terminal) and type the following to install JDK and JRE:

```
$ sudo apt-get install sun-java6-bin sun-java6-jre sun-java6-jdk
```

Setup the default Java version

Ubuntu Linux comes with update-java-alternatives utility to updates all alternatives belonging to one runtime or development kit for the Java language. To select, Sun's JVM as provided in Ubuntu 7.10, enter:

```
$ sudo update-java-alternatives -s java-6-sun
```

You also need to edit a file called /etc/jvm. This file defines the default system JVM search order. Each JVM should list their JAVA_HOME compatible directory in this file. The default system JVM is the first one available from top to bottom. Open /etc/jvm

```
$ sudo vi /etc/jvm
```

Make sure /usr/lib/jvm/java-6-sun is added to the top of JVM list

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

At the end your file should read as follows:

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

```
/usr/lib/jvm/ia32-java-1.5.0-sun
/usr/lib/jvm/java-1.5.0-sun
/usr
```

Save and close the file.

Setup the environment variable

You also need to setup JAVA_HOME and PATH variable. Open your $HOME/.bash_profile or /etc/profile (system wide) configuration. Open your .bash_profile file:

```
$ vi $HOME/.bash_profile
```

Append following line:

```
export JAVA_HOME=/usr/lib/jvm/java-6-sun
export PATH=$PATH:$JAVA_HOME/bin
```

Save and close the file.

Test your new JDK

Type the following command to display version:

```
$ java -version
```

Output:

```
java version "1.6.0_03"
Java(TM) SE Runtime Environment (build 1.6.0_03-b05)
Java HotSpot(TM) Server VM (build 1.6.0_03-b05, mixed mode)
```

Try HelloWorld.java - first java program

```
$ vi HelloWorld.java
```

Append code:

```java
public class HelloWorld {
    public static void main(String [3][] args) {
        System [4].out.println("Hello, World!");
    }
}
```

Save and close the file. Compile HelloWorld.java and execute program by typing following two instructions:

```
$ javac HelloWorld.java
$ java HelloWorld
```

Output:

```
Hello, World!
```

Further readings:

- Official Sun Java tutorial [5] - The Java Tutorials are practical guides for programmers who want to use the Java programming language to create applications. They include hundreds of complete, working examples, and dozens of lessons. Groups of related lessons are organized into "trails".
- man pages java, javac

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[1] Image: **http://www.cyberciti.biz/faq/faq/category/ubuntu-linux/**

[2] Image: **http://www.cyberciti.biz/faq/wp-content/uploads/2008/02/ubuntu-linux-setmultiverse.png**

[3] String: **http://www.google.com/search?**
hl=en&q=allinurl%3AString+java.sun.com&btnl=I%27m%20Feeling%20Lucky

[4] System: **http://www.google.com/search?**
hl=en&q=allinurl%3ASystem+java.sun.com&btnl=I%27m%20Feeling%20Lucky

[5] Official Sun Java tutorial: **http://java.sun.com/docs/books/tutorial/**