

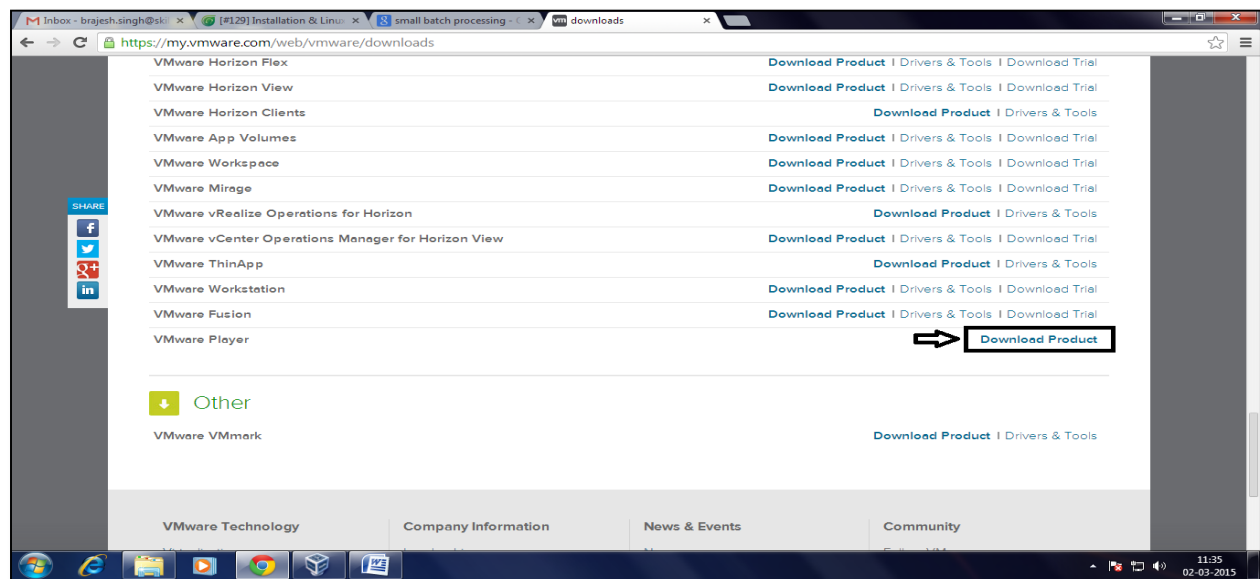
INSTALLATION GUIDE SPARK-1.5.1

Note: If you have already install VM Player then you can start follow the steps from 7th.

VMware and Ubuntu Installation:

Step 1: Download VM Ware from the given link:

<https://my.vmware.com/web/vmware/downloads>

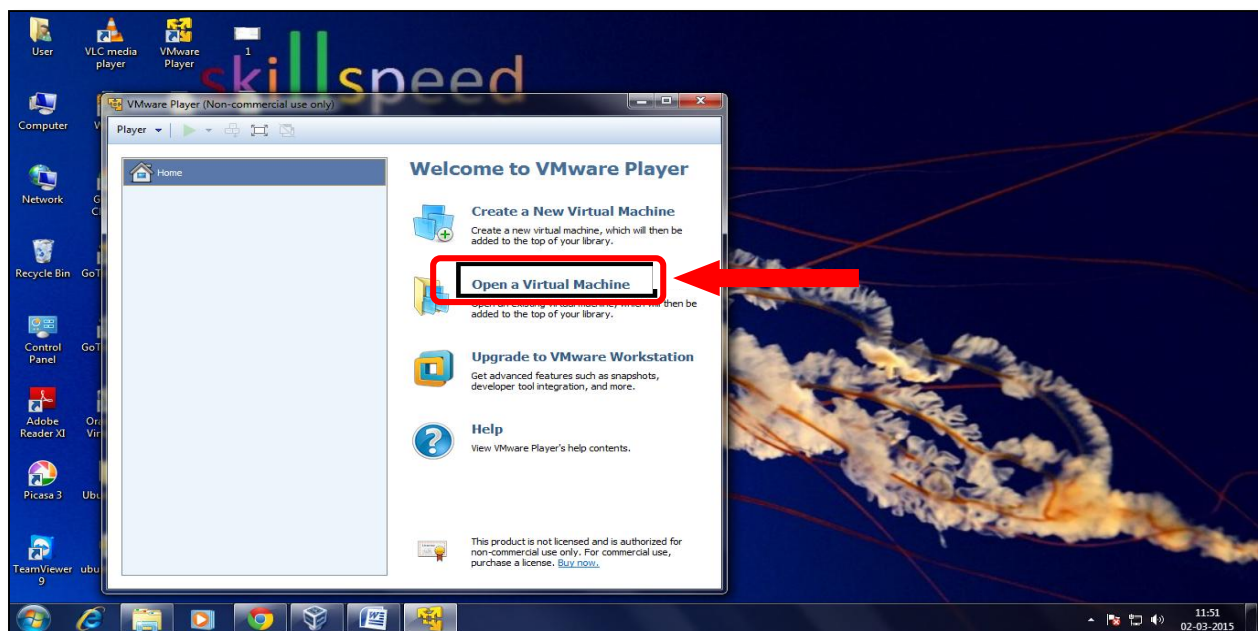


Step 2: Download the Ubuntu 14.04 image:

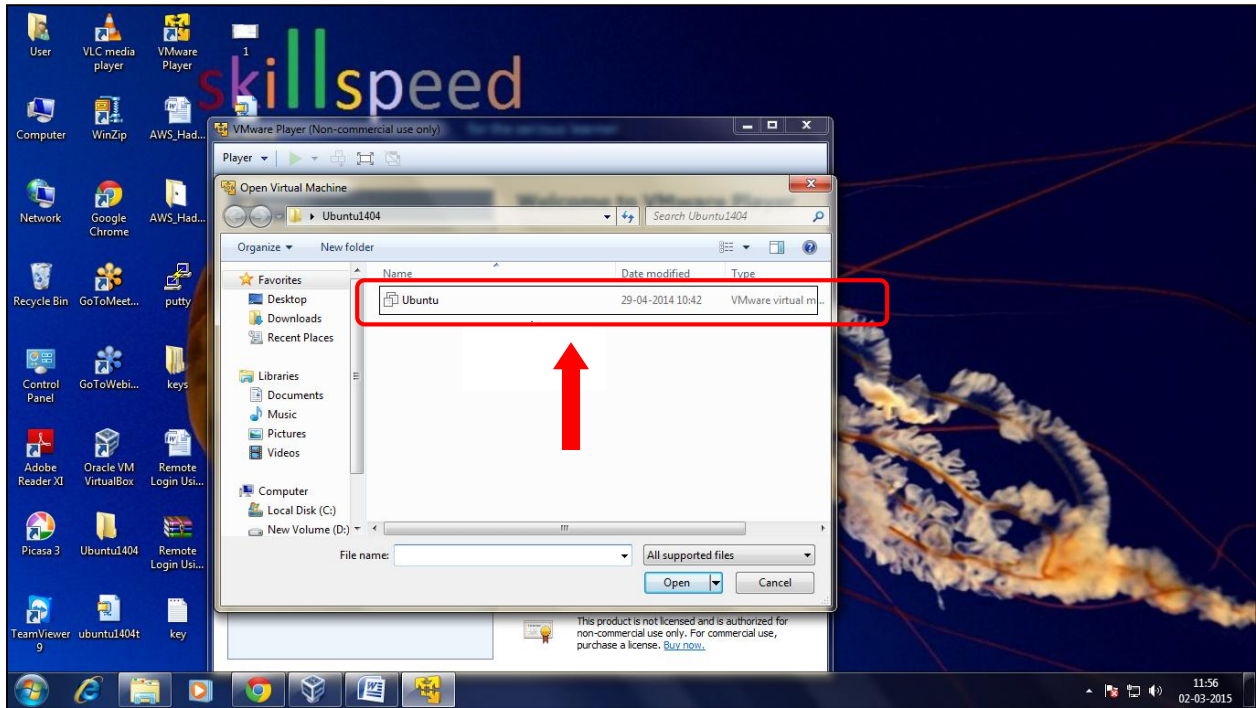
<http://www.traffictool.net/vmware/ubuntu1404t.html>

Step 3: Extract the file in a location on your machine

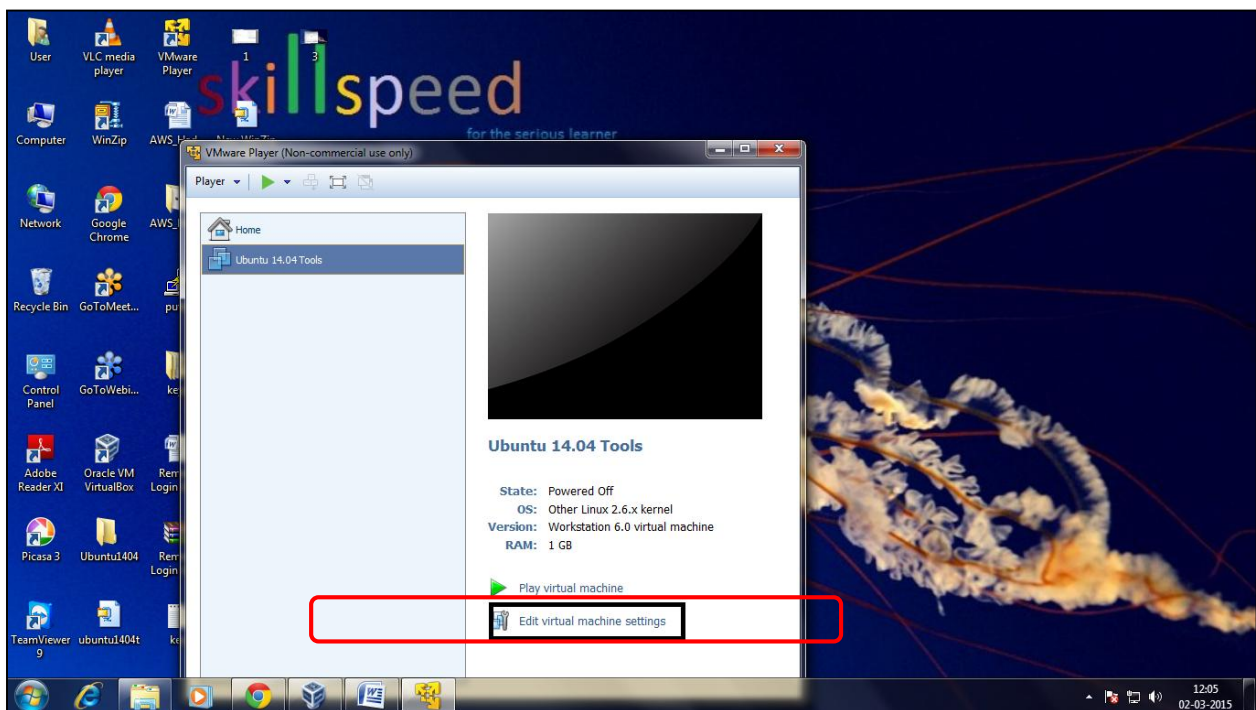
Step 4: Open VM and click on open a virtual machine



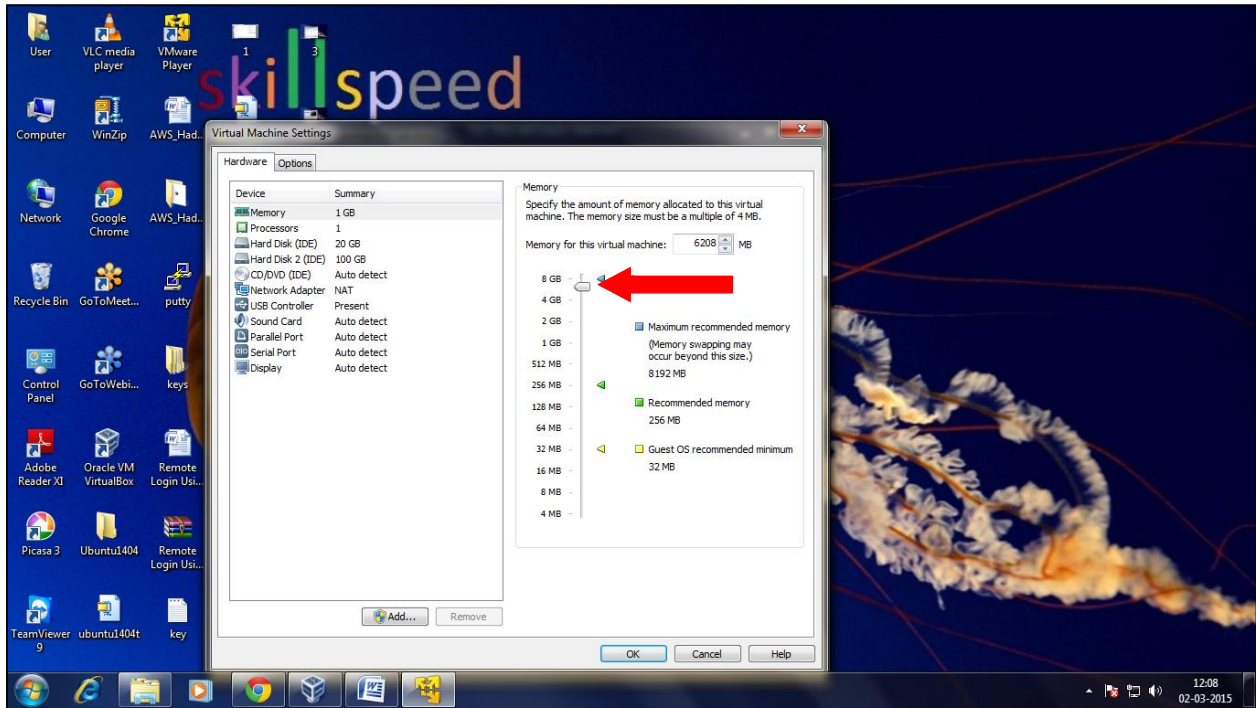
Step 5: Now add your extract: Ubuntu



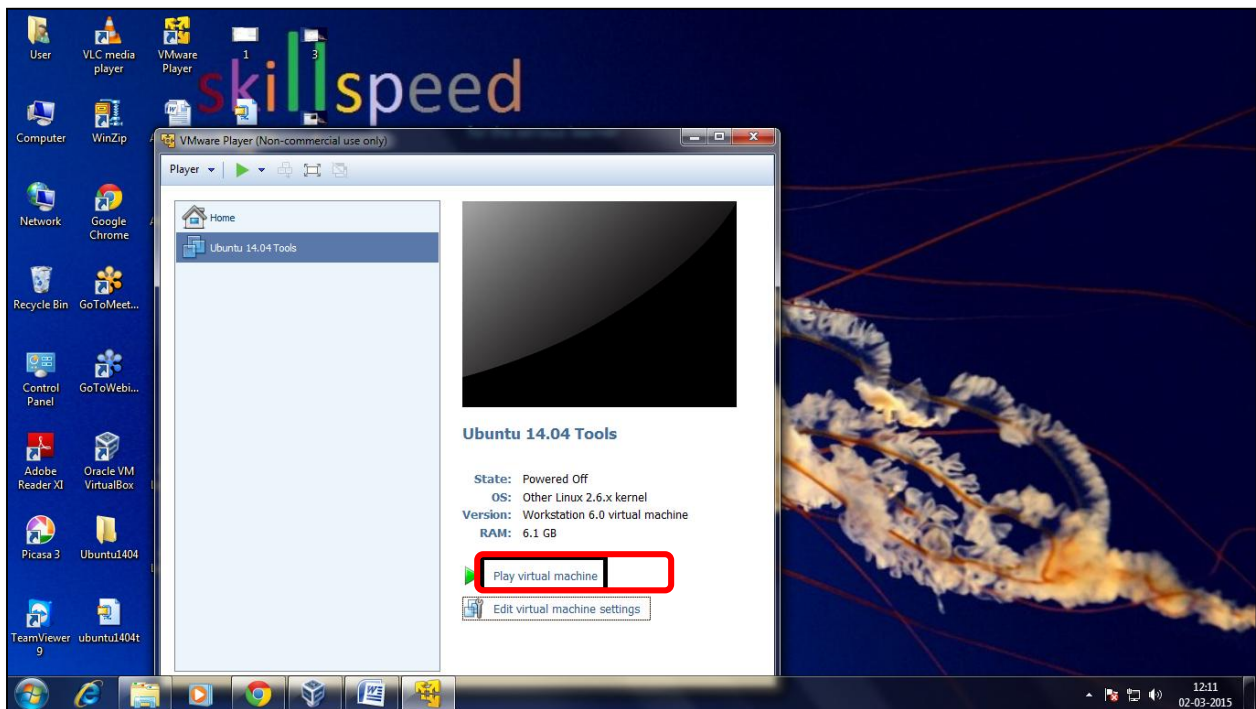
Now your VMware would look like the image given below. Click on edit virtual machine setting



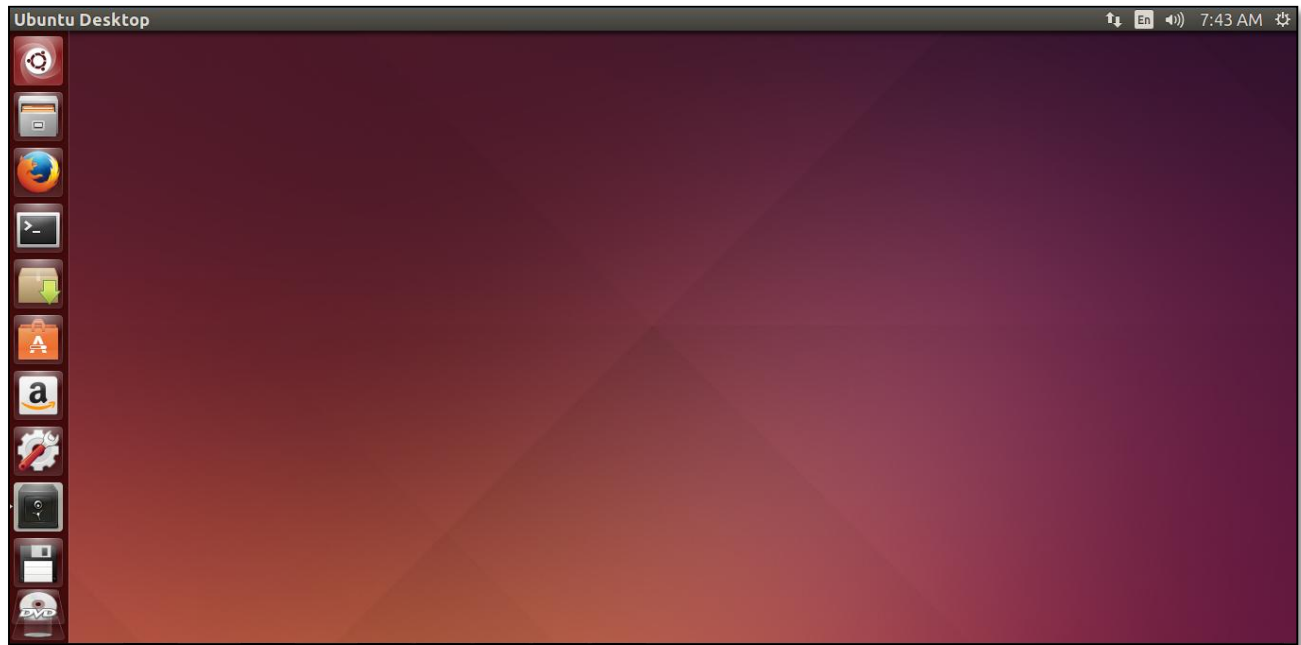
Step 6: Increase your VMware memory min (4GB - 6 GB or above), and then click ok.



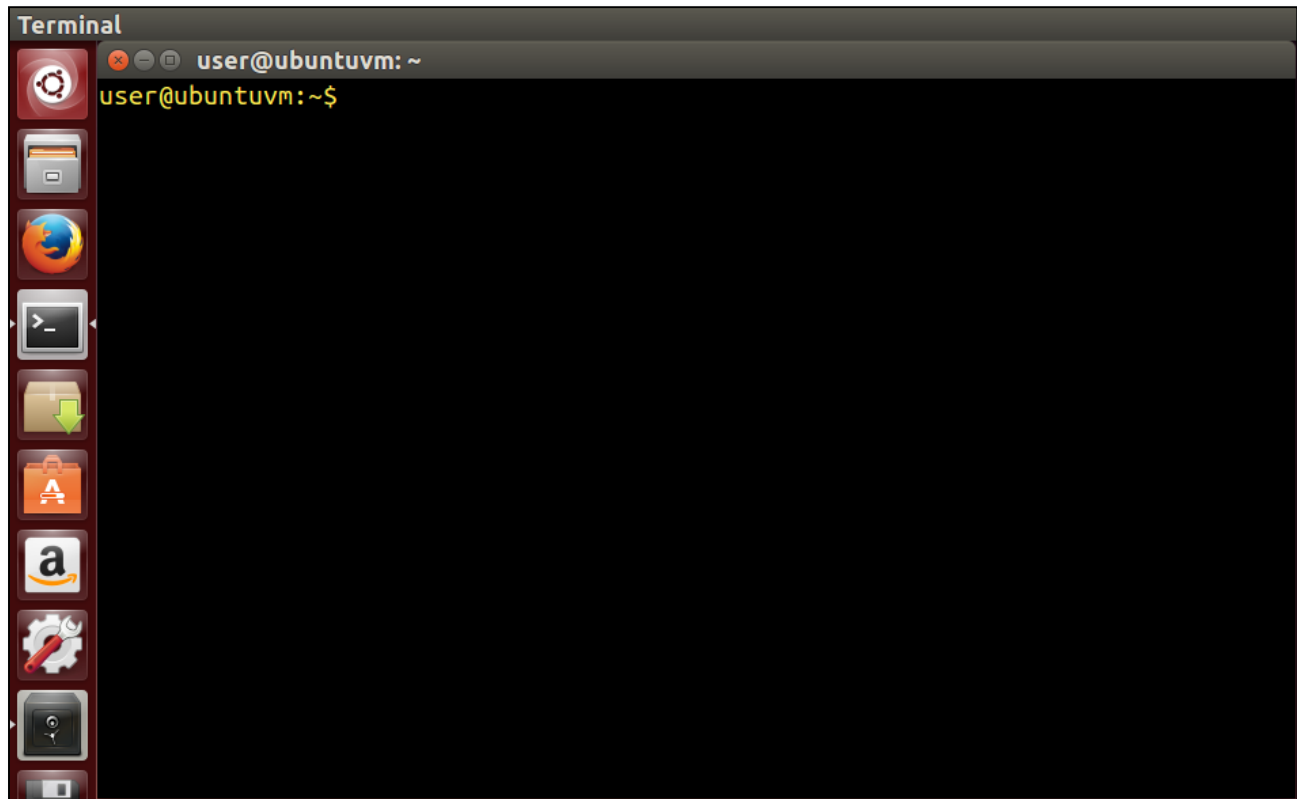
Now click on play virtual machine



You'll see the console like:



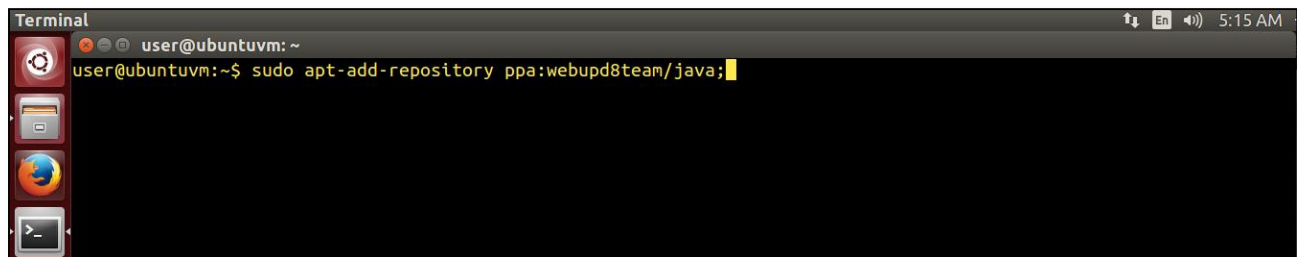
Step 7: Click on Terminal



Java Installation:

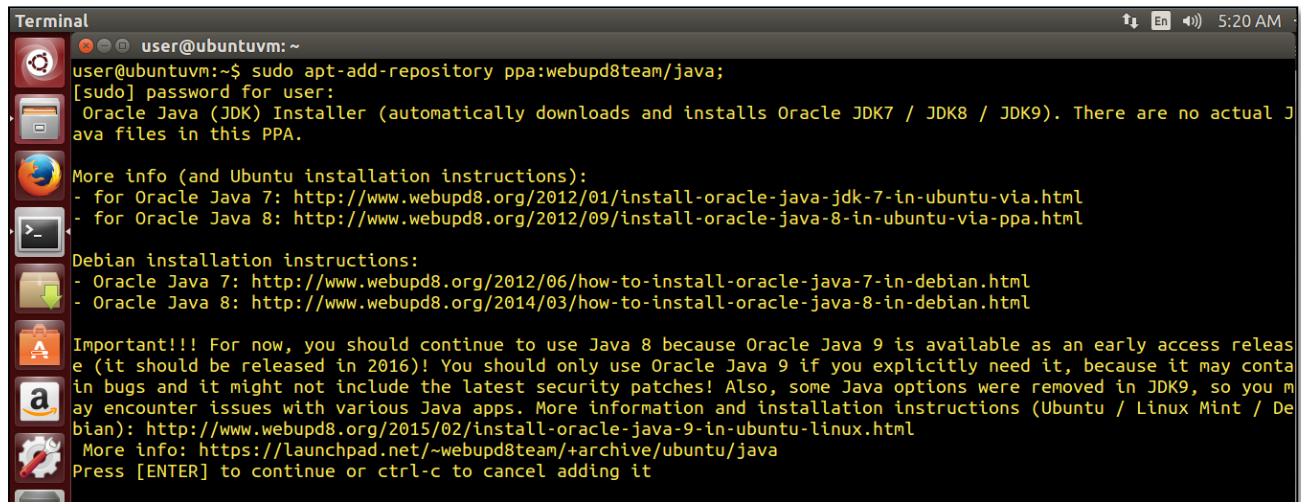
Step 1: Install Java and add the repository as shown below:

```
sudo apt-add-repository ppa:webupd8team/java
```



Step 2: It will ask for password, enter **password**

And then press enter again as shown below:



```
Terminal
user@ubuntuvm: ~
user@ubuntuvm:~$ sudo apt-add-repository ppa:webupd8team/java;
[sudo] password for user:
Oracle Java (JDK) Installer (automatically downloads and installs Oracle JDK7 / JDK8 / JDK9). There are no actual J
ava files in this PPA.

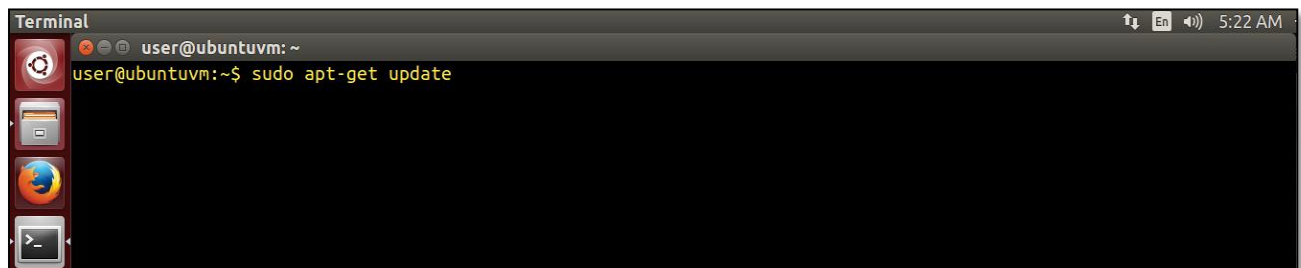
More info (and Ubuntu installation instructions):
- for Oracle Java 7: http://www.webupd8.org/2012/01/install-oracle-java-jdk-7-in-ubuntu-via.html
- for Oracle Java 8: http://www.webupd8.org/2012/09/install-oracle-java-8-in-ubuntu-via-ppa.html

Debian installation instructions:
- Oracle Java 7: http://www.webupd8.org/2012/06/how-to-install-oracle-java-7-in-debian.html
- Oracle Java 8: http://www.webupd8.org/2014/03/how-to-install-oracle-java-8-in-debian.html

Important!!! For now, you should continue to use Java 8 because Oracle Java 9 is available as an early access releas
e (it should be released in 2016)! You should only use Oracle Java 9 if you explicitly need it, because it may conta
in bugs and it might not include the latest security patches! Also, some Java options were removed in JDK9, so you m
ay encounter issues with various Java apps. More information and installation instructions (Ubuntu / Linux Mint / De
bian): http://www.webupd8.org/2015/02/install-oracle-java-9-in-ubuntu-linux.html
More info: https://launchpad.net/~webupd8team/+archive/ubuntu/java
Press [ENTER] to continue or ctrl-c to cancel adding it
```

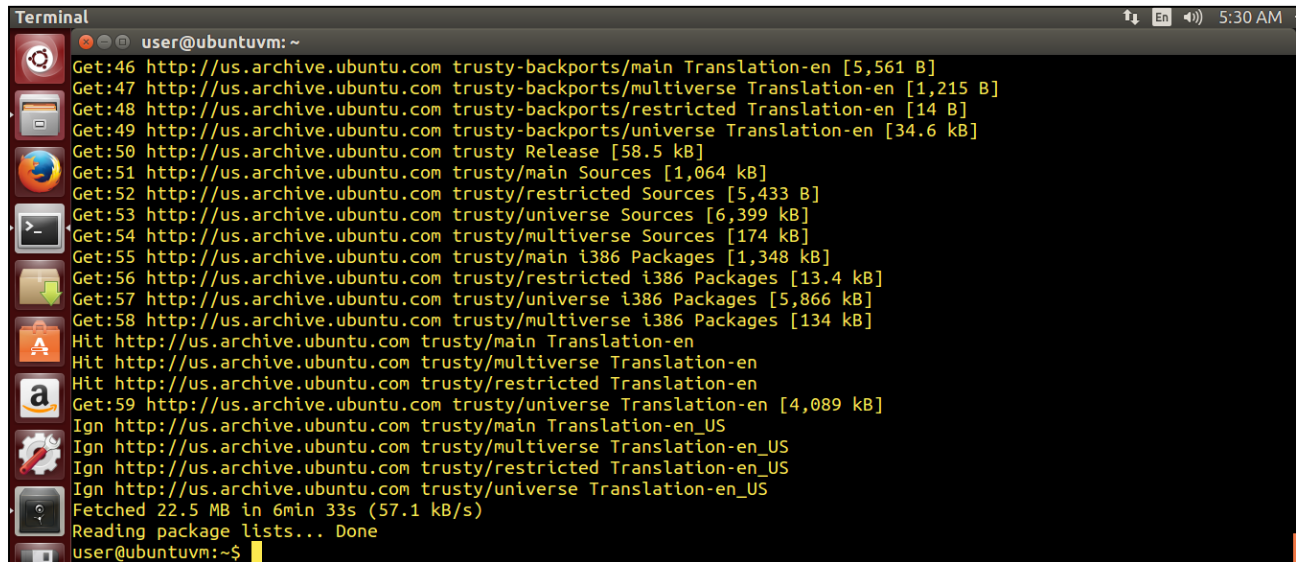
Step 3: Now update your system

`sudo apt-get update`



```
Terminal
user@ubuntuvm: ~
user@ubuntuvm:~$ sudo apt-get update
```

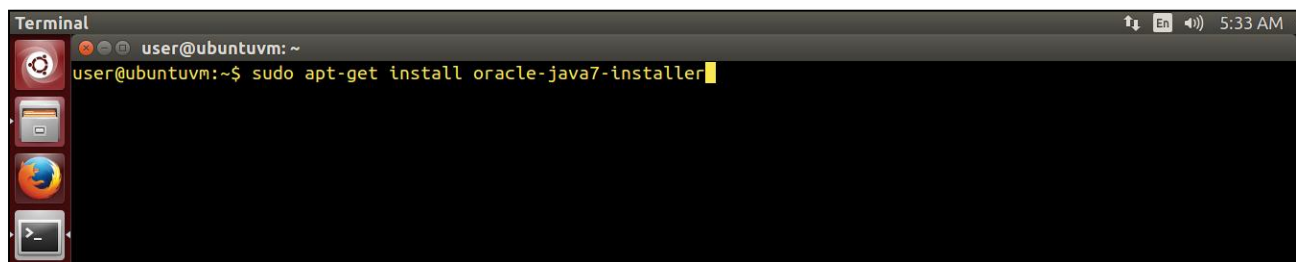
It will take some minutes to complete. After completion the screen will look below:



```
Terminal
user@ubuntuvm: ~
Get:46 http://us.archive.ubuntu.com trusty-backports/main Translation-en [5,561 B]
Get:47 http://us.archive.ubuntu.com trusty-backports/multiverse Translation-en [1,215 B]
Get:48 http://us.archive.ubuntu.com trusty-backports/restricted Translation-en [14 B]
Get:49 http://us.archive.ubuntu.com trusty-backports/universe Translation-en [34.6 kB]
Get:50 http://us.archive.ubuntu.com trusty Release [58.5 kB]
Get:51 http://us.archive.ubuntu.com trusty/main Sources [1,064 kB]
Get:52 http://us.archive.ubuntu.com trusty/restricted Sources [5,433 B]
Get:53 http://us.archive.ubuntu.com trusty/universe Sources [6,399 kB]
Get:54 http://us.archive.ubuntu.com trusty/multiverse Sources [174 kB]
Get:55 http://us.archive.ubuntu.com trusty/main i386 Packages [1,348 kB]
Get:56 http://us.archive.ubuntu.com trusty/restricted i386 Packages [13.4 kB]
Get:57 http://us.archive.ubuntu.com trusty/universe i386 Packages [5,866 kB]
Get:58 http://us.archive.ubuntu.com trusty/multiverse i386 Packages [134 kB]
Hit http://us.archive.ubuntu.com trusty/main Translation-en
Hit http://us.archive.ubuntu.com trusty/multiverse Translation-en
Hit http://us.archive.ubuntu.com trusty/restricted Translation-en
Get:59 http://us.archive.ubuntu.com trusty/universe Translation-en [4,089 kB]
Ign http://us.archive.ubuntu.com trusty/main Translation-en_US
Ign http://us.archive.ubuntu.com trusty/multiverse Translation-en_US
Ign http://us.archive.ubuntu.com trusty/restricted Translation-en_US
Ign http://us.archive.ubuntu.com trusty/universe Translation-en_US
Fetched 22.5 MB in 6min 33s (57.1 kB/s)
Reading package lists... Done
user@ubuntuvm:~$
```

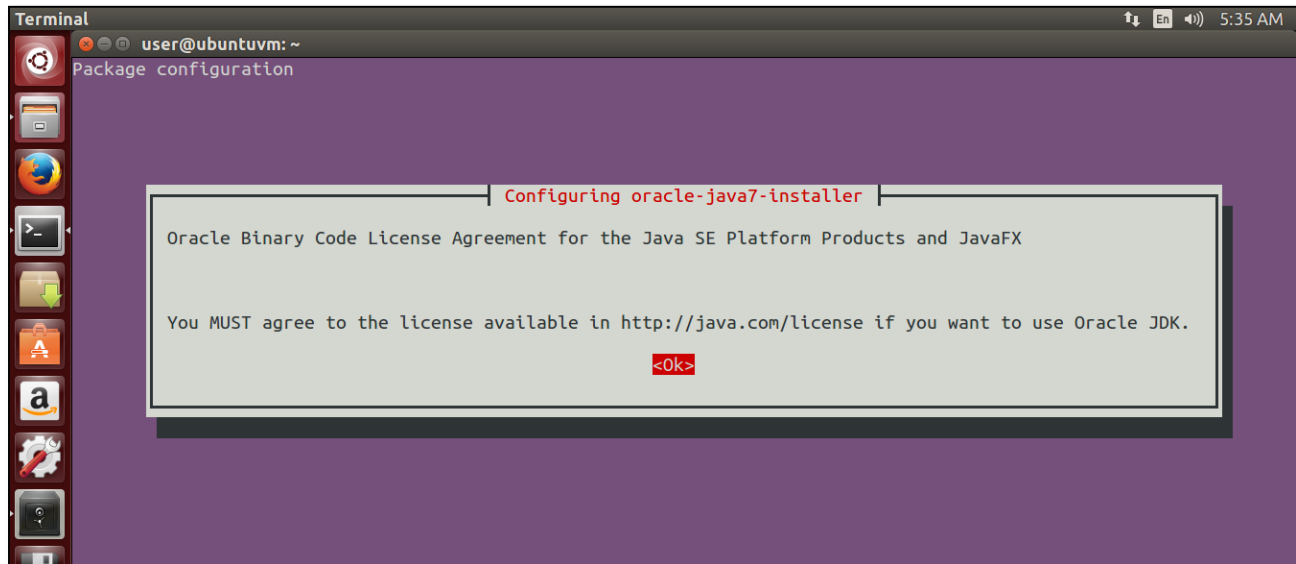
Step 4: Now invoke the Java-7-installer as shown below:

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

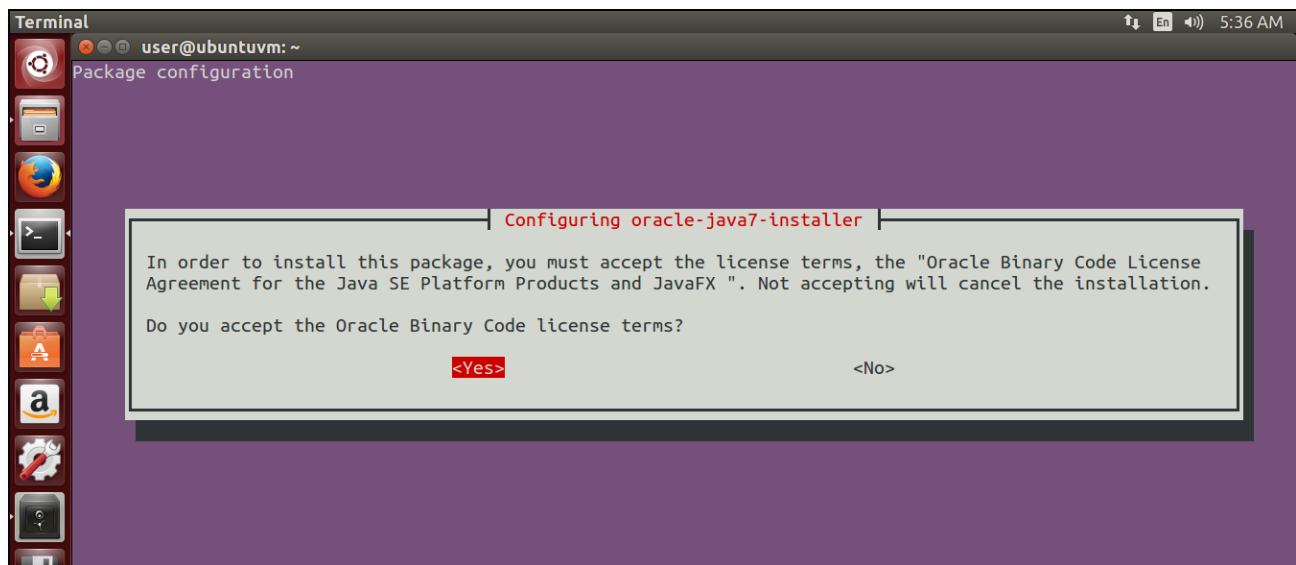


```
Terminal
user@ubuntuvm: ~
user@ubuntuvm:~$ sudo apt-get install oracle-java7-installer
```


It will ask for accepting the license. Hit OK as shown below:



Step 5: Click on Yes:



Step 6: Java installation will continue for some time. Once it is complete, the screen would look like the following:

```
Terminal
user@ubuntuvm: ~
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/jsadebugd to provide /usr/bin/jsadebugd (jsadebugd) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/jvisualvm to provide /usr/bin/jvisualvm (jvisualvm) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/native2ascii to provide /usr/bin/native2ascii (native2ascii) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/rmic to provide /usr/bin/rmic (rmic) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/schemagen to provide /usr/bin/schemagen (schemagen) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/wsgen to provide /usr/bin/wsgen (wsgen) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/wsimport to provide /usr/bin/wsimport (wsimport) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-oracle/bin/xjc to provide /usr/bin/xjc (xjc) in auto mode
Oracle JDK 7 installed
update-alternatives: using /usr/lib/jvm/java-7-oracle/jre/lib/i386/libnpjp2.so to provide /usr/lib/mozilla/plugins/libjavaplugin.so (mozilla-javaplugin.so) in auto mode
Oracle JRE 7 browser plugin installed
Setting up gsfonts-x11 (0.22) ...
user@ubuntuvm:~$
```

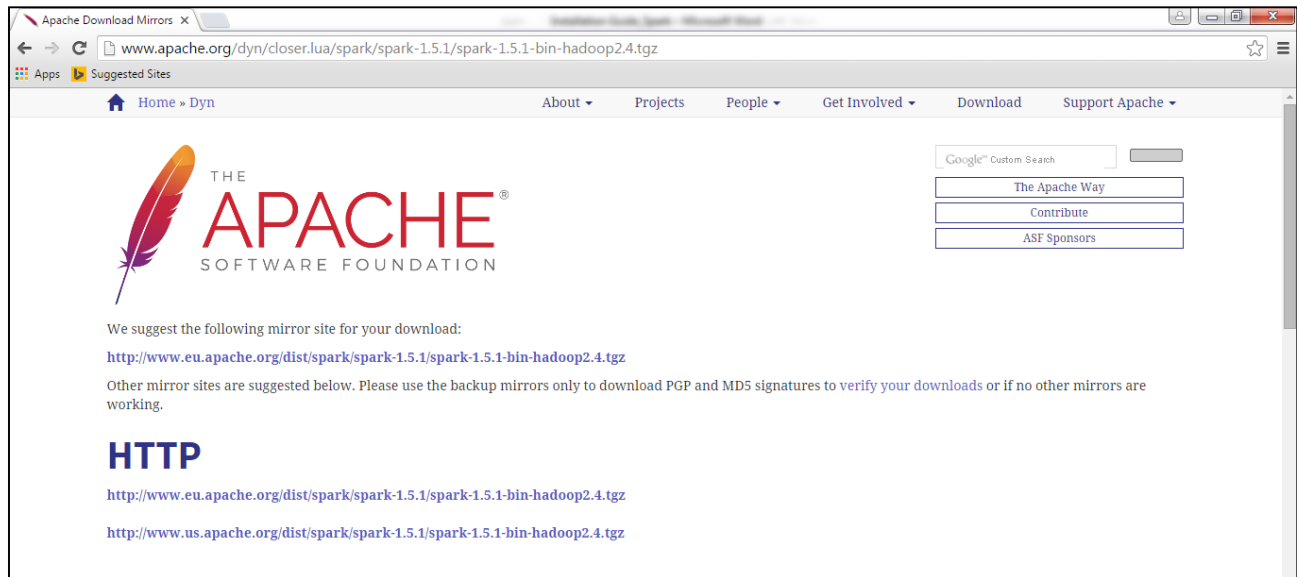
Step 7: Confirm Java version as shown below:

```
Terminal
user@ubuntuvm: ~
user@ubuntuvm:~$ java -version
java version "1.7.0_80"
Java(TM) SE Runtime Environment (build 1.7.0_80-b15)
Java HotSpot(TM) Client VM (build 24.80-b11, mixed mode)
user@ubuntuvm:~$
```

Spark Installation:

Step 1: Go to following link and download the latest version of spark

Link: <http://www.apache.org/dyn/closer.lua/spark/spark-1.5.1/spark-1.5.1-bin-hadoop2.4.tgz>



Step 2: After downloading the file you will get spark-1.5.1-bin-hadoop2.4.tgz

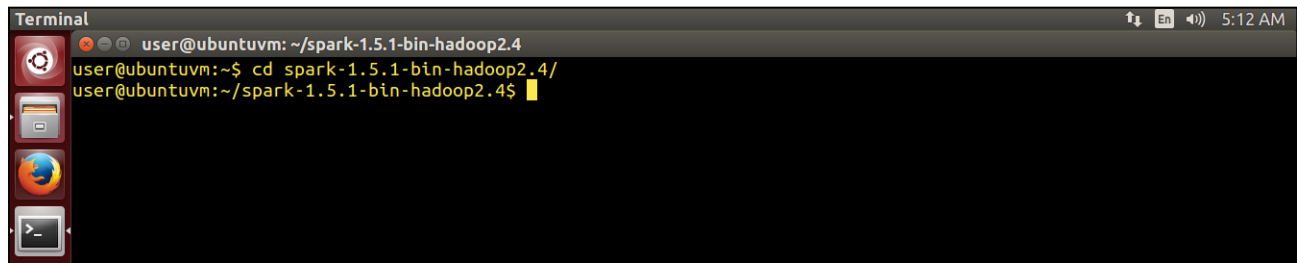
Use the following command to untar:

```
tar -zxvf spark-1.5.1-bin-hadoop2.4.tgz
```



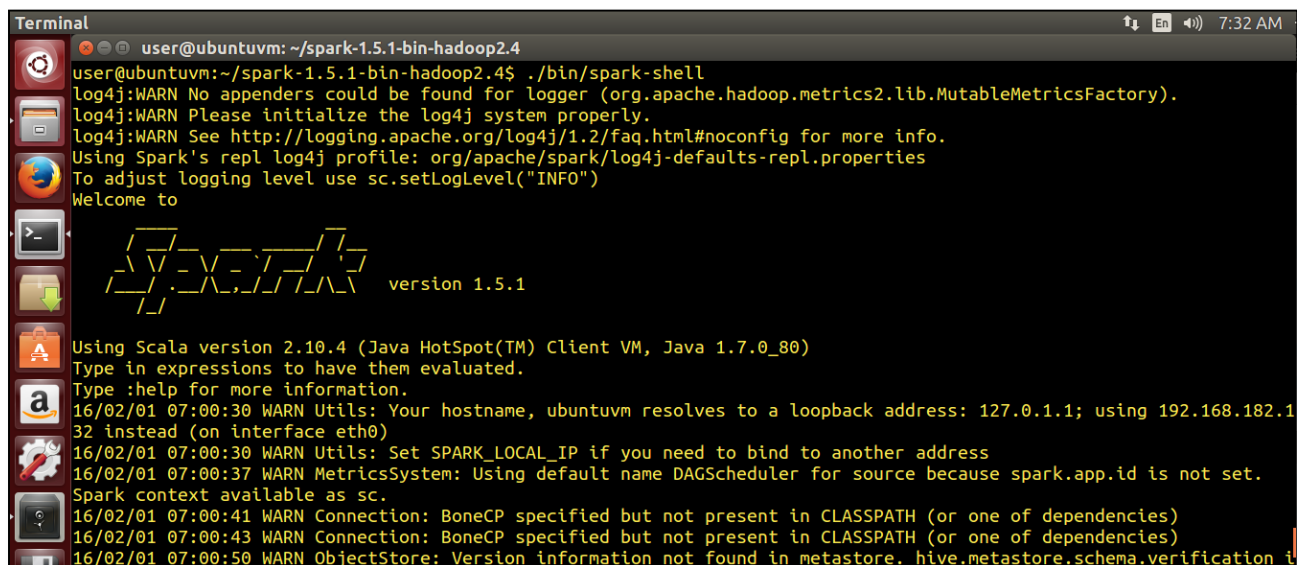
Step 3: Change the directory using cd command

```
cd spark-1.5.1-bin-hadoop2.4/
```

A terminal window titled 'Terminal' showing a user at 'user@ubuntuvm: ~/spark-1.5.1-bin-hadoop2.4'. The user enters 'cd spark-1.5.1-bin-hadoop2.4/' and the prompt changes to 'user@ubuntuvm: ~/spark-1.5.1-bin-hadoop2.4\$'.

Step 4: Use the following command to open spark-shell

```
./bin/spark-shell
```

A terminal window titled 'Terminal' showing the execution of './bin/spark-shell'. The output includes log4j warnings, a welcome message, the Spark logo, 'version 1.5.1', and Scala version information. It also shows several warning messages about BoneCP and metastore schema verification.

Installation successful.