JENKINS Installation Steps

Step1: Install Oracle java 8 on ubuntu 14.04

1. Add apt repository

   sudo apt-add-repository ppa:webupd8team/java

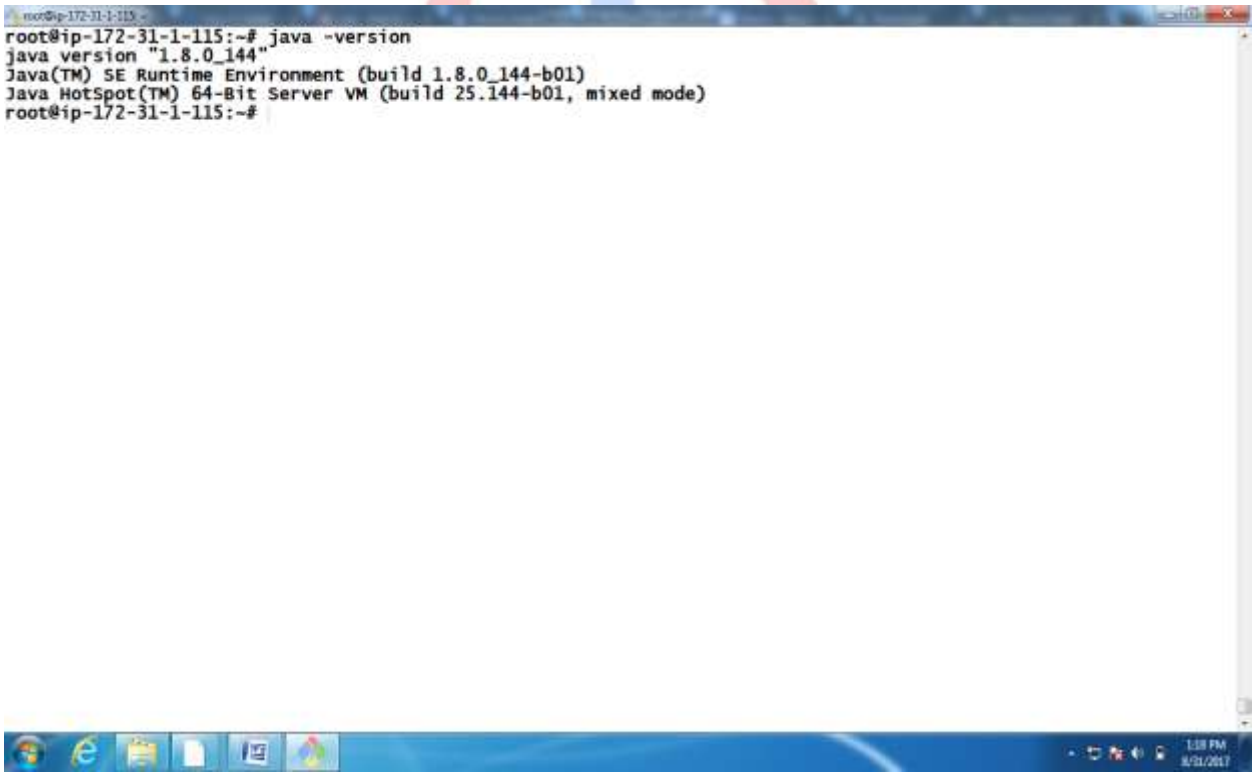
   Type in user password when it asks and hit Enter to continue.

2. After that, update system package cache and install Oracle java 8

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

step2: check java version

java -version



Step3: To Set JAVA_HOME / PATH for all user, You need to setup global config in /etc/profile OR /etc/bash.bashrc file for all users:

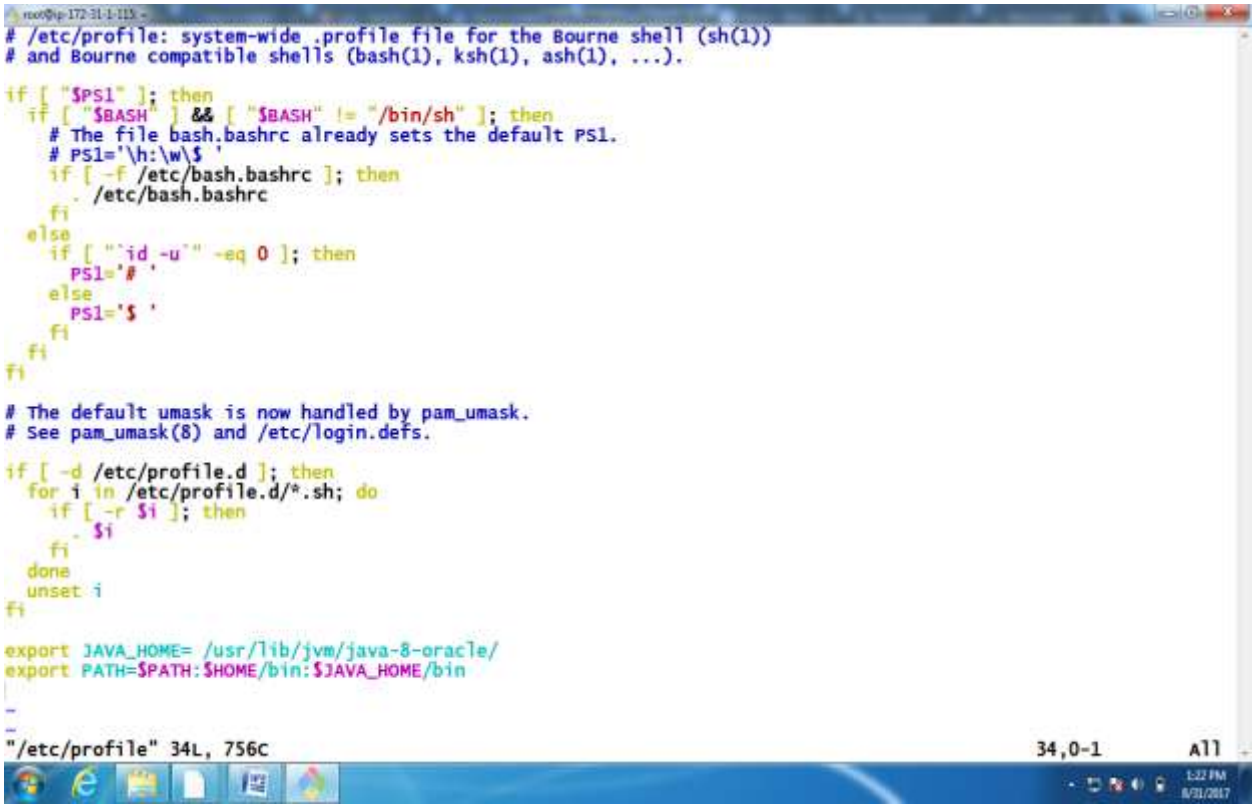
open /etc/profile

vi /etc/profile

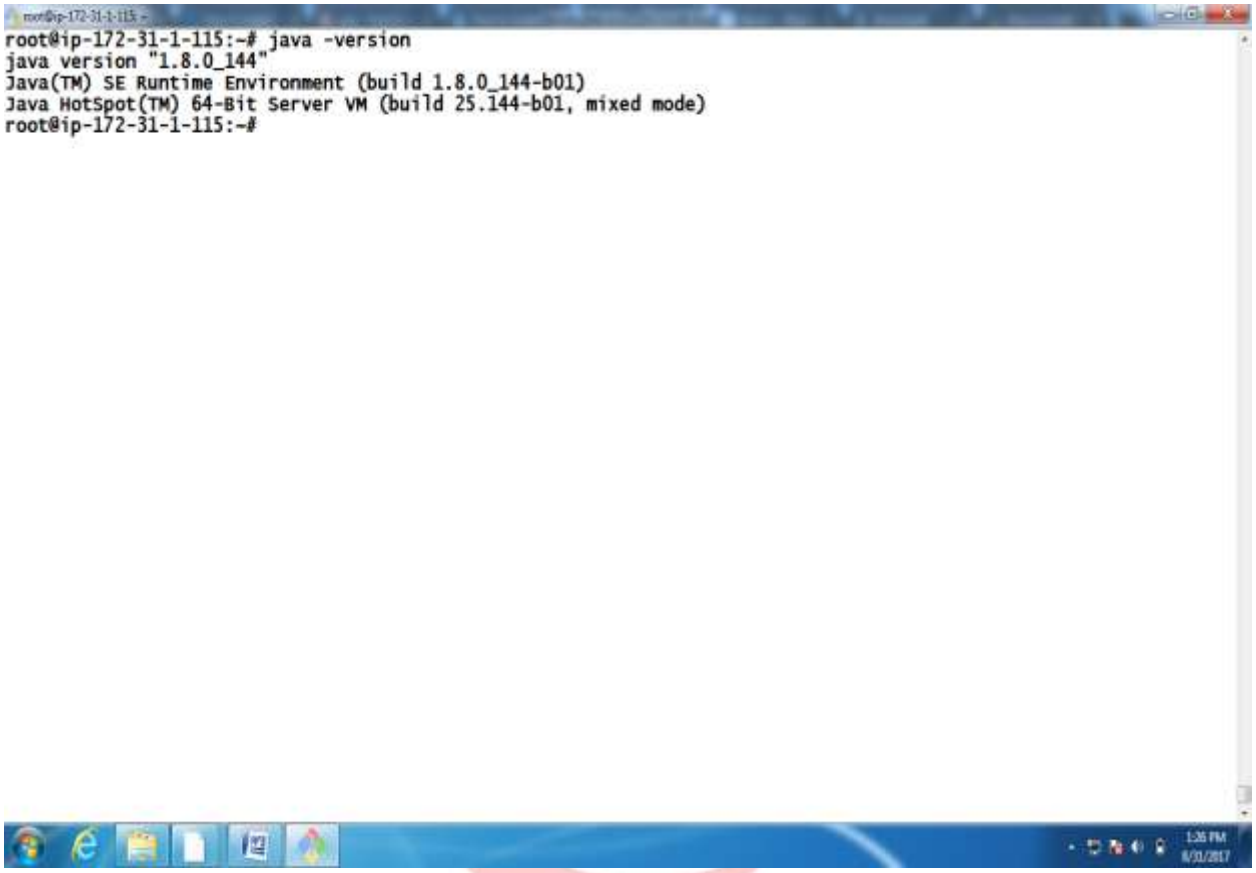
add bellow steps end of file

export JAVA_HOME=/usr/lib/jvm/java-8-oracle/

export PATH=$PATH:$HOME/bin:$JAVA_HOME/bin



step4: check your path



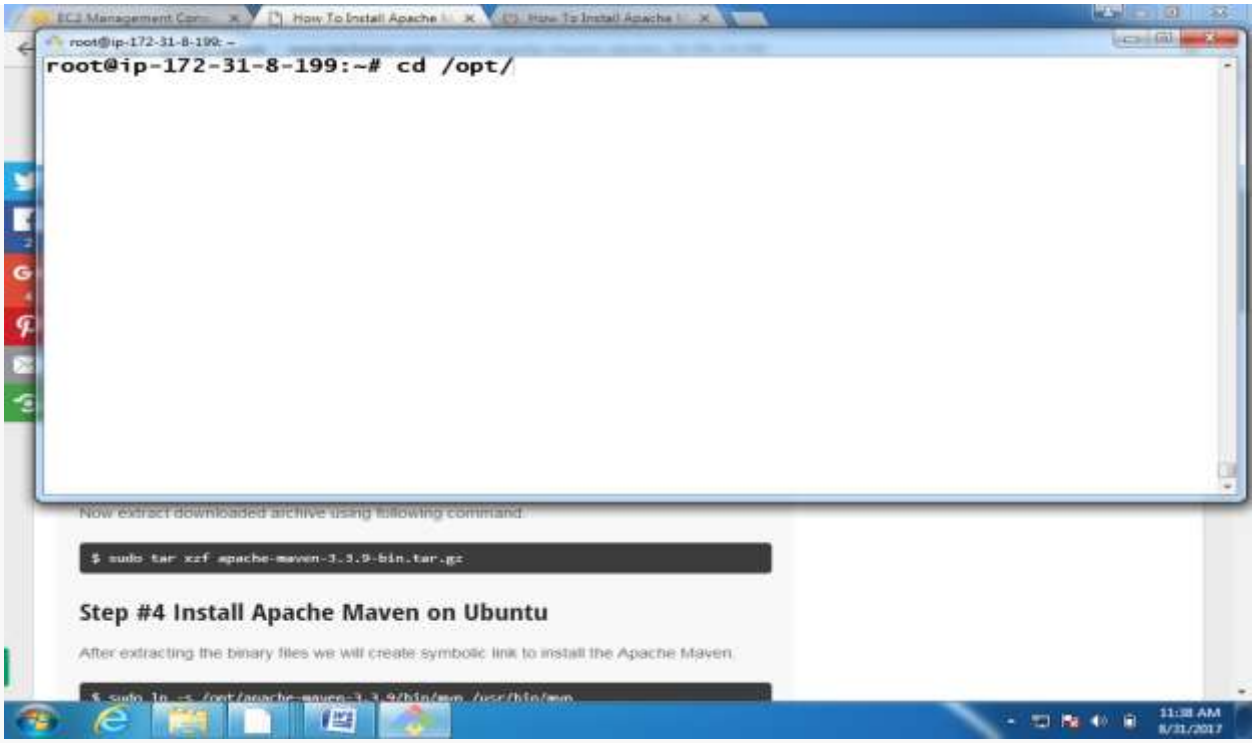
Step5: Install maven

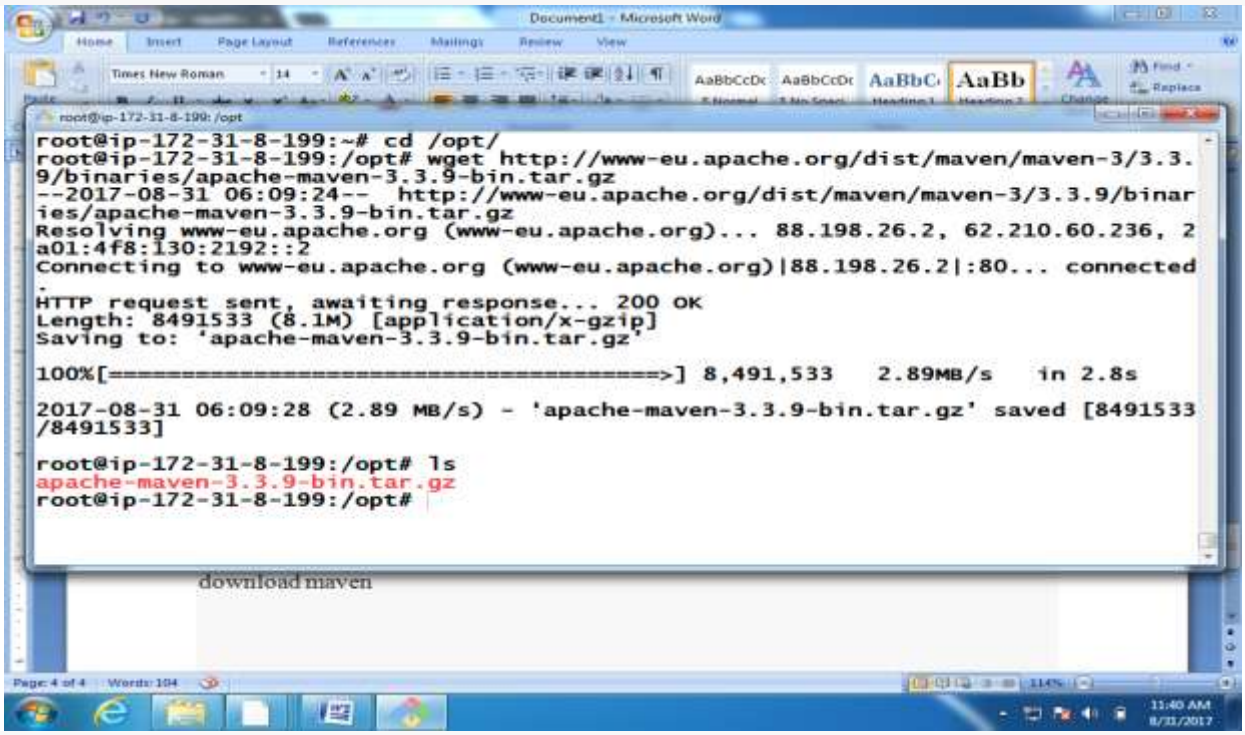
1. Download Apache Maven

   Go to /opt directory

Download maven tar file

wget http://www-eu.apache.org/dist/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.tar.gz


root@ip-172-31-8-199:~# cd /opt/
Now extract downloaded archive using following command
$ sudo tar xzf apache-maven-3.3.9-bin.tar.gz
Step #4 Install Apache Maven on Ubuntu
After extracting the binary files we will create symbolic link to install the Apache Maven


root@ip-172-31-8-199:~# cd /opt/
root@ip-172-31-8-199:/opt# wget http://www-eu.apache.org/dist/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.tar.gz
--2017-08-31 06:09:24-- http://www-eu.apache.org/dist/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.tar.gz
Resolving www-eu.apache.org (www-eu.apache.org)... 88.198.26.2, 62.210.60.236, 2a01:4f8:130:2192::2
Connecting to www-eu.apache.org (www-eu.apache.org)|88.198.26.2|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 8491533 (8.1M) [application/x-gzip]
Saving to: 'apache-maven-3.3.9-bin.tar.gz'
100%[==========>] 8,491,533 2.89MB/s in 2.8s
2017-08-31 06:09:28 (2.89 MB/s) - 'apache-maven-3.3.9-bin.tar.gz' saved [8491533/8491533]
root@ip-172-31-8-199:/opt# ls
apache-maven-3.3.9-bin.tar.gz
root@ip-172-31-8-199:/opt#
download maven

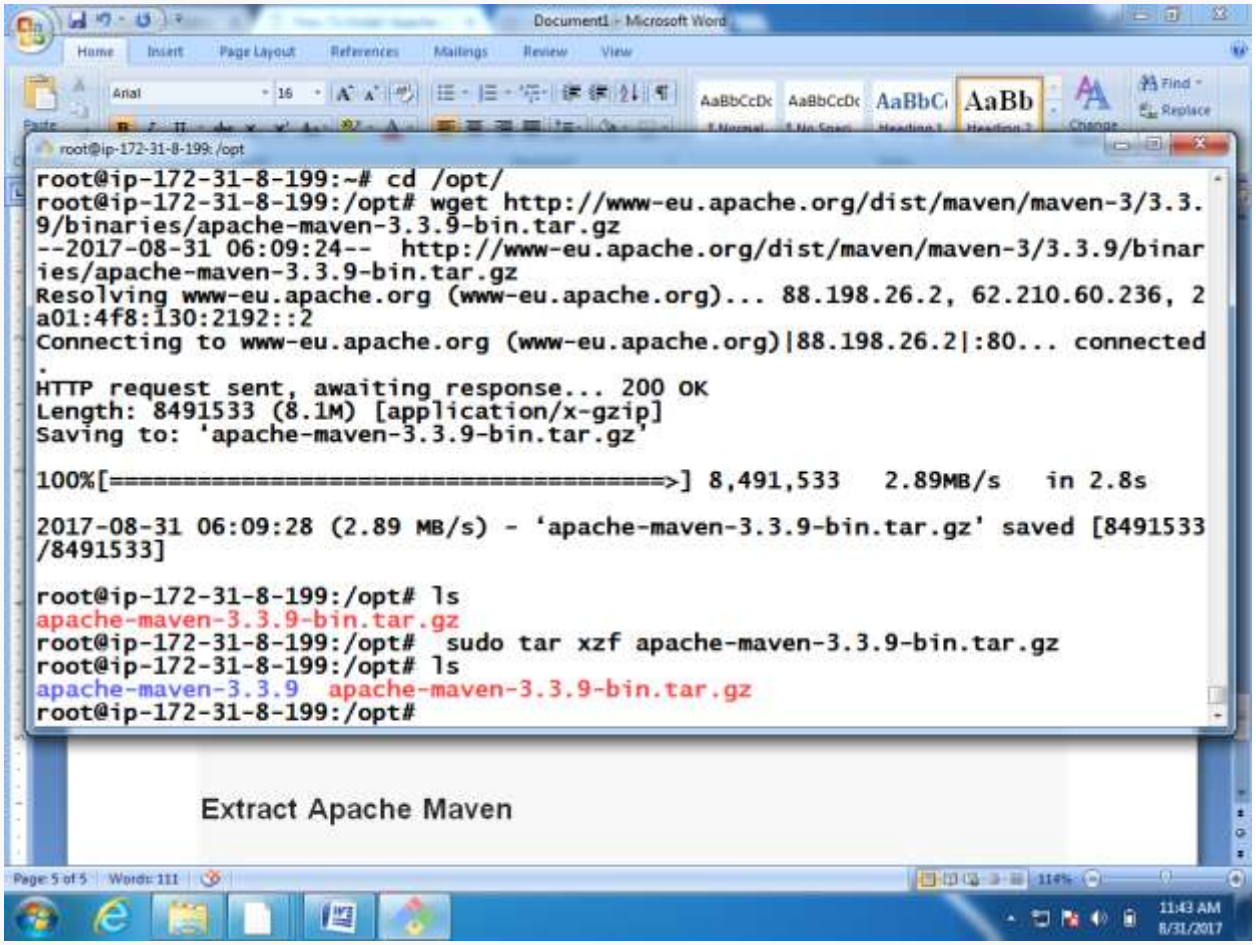
Extract Apache Maven:

Using below command:

sudo tar xzf apache-maven-3.3.9-bin.tar.gz

After run below command:

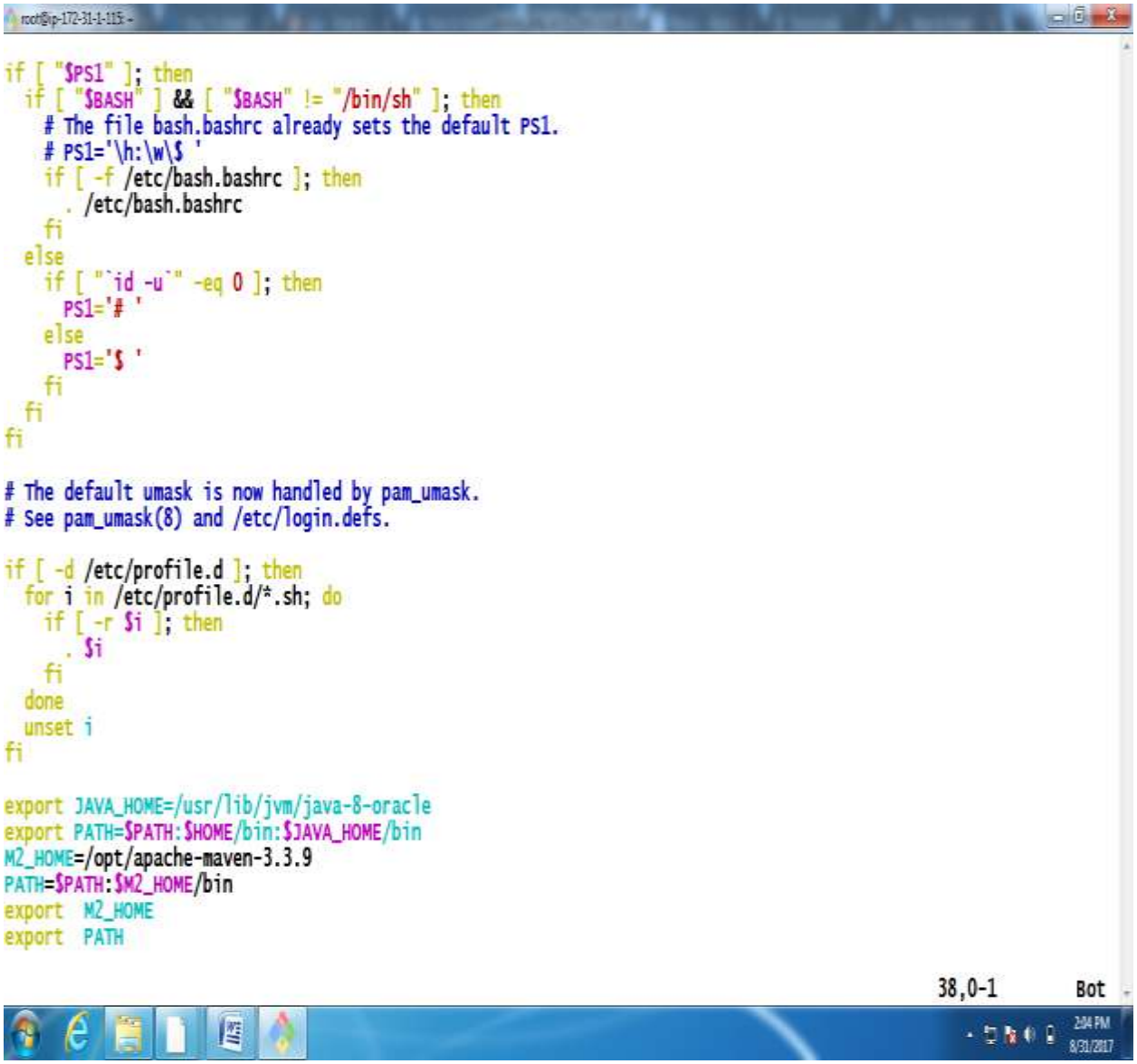
sudo ln -s /opt/apache-maven-3.3.9/bin/mvn /usr/bin/mvn



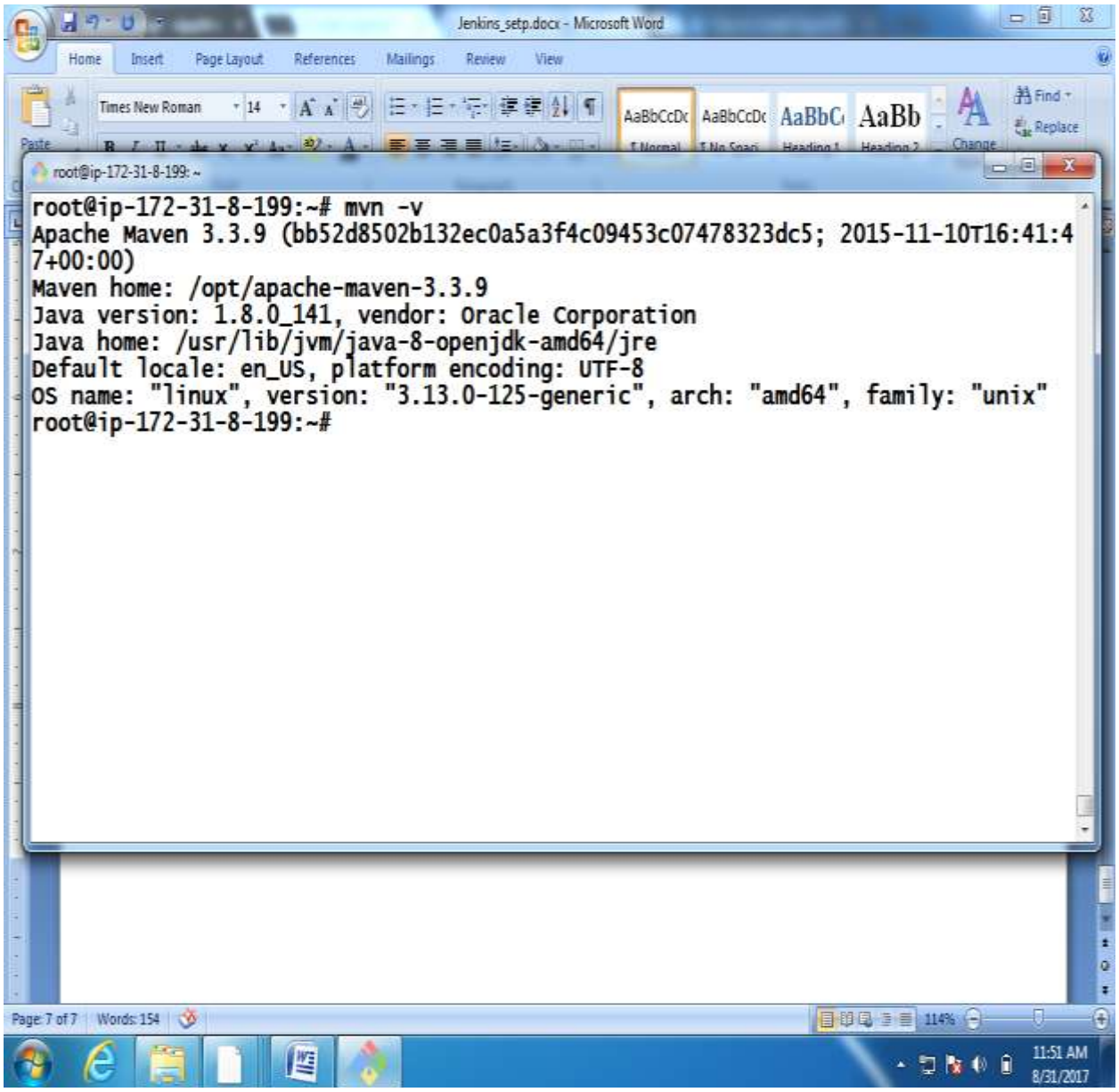
Setup Environment Variables for maven

Go to /etc/profile add bellow steps

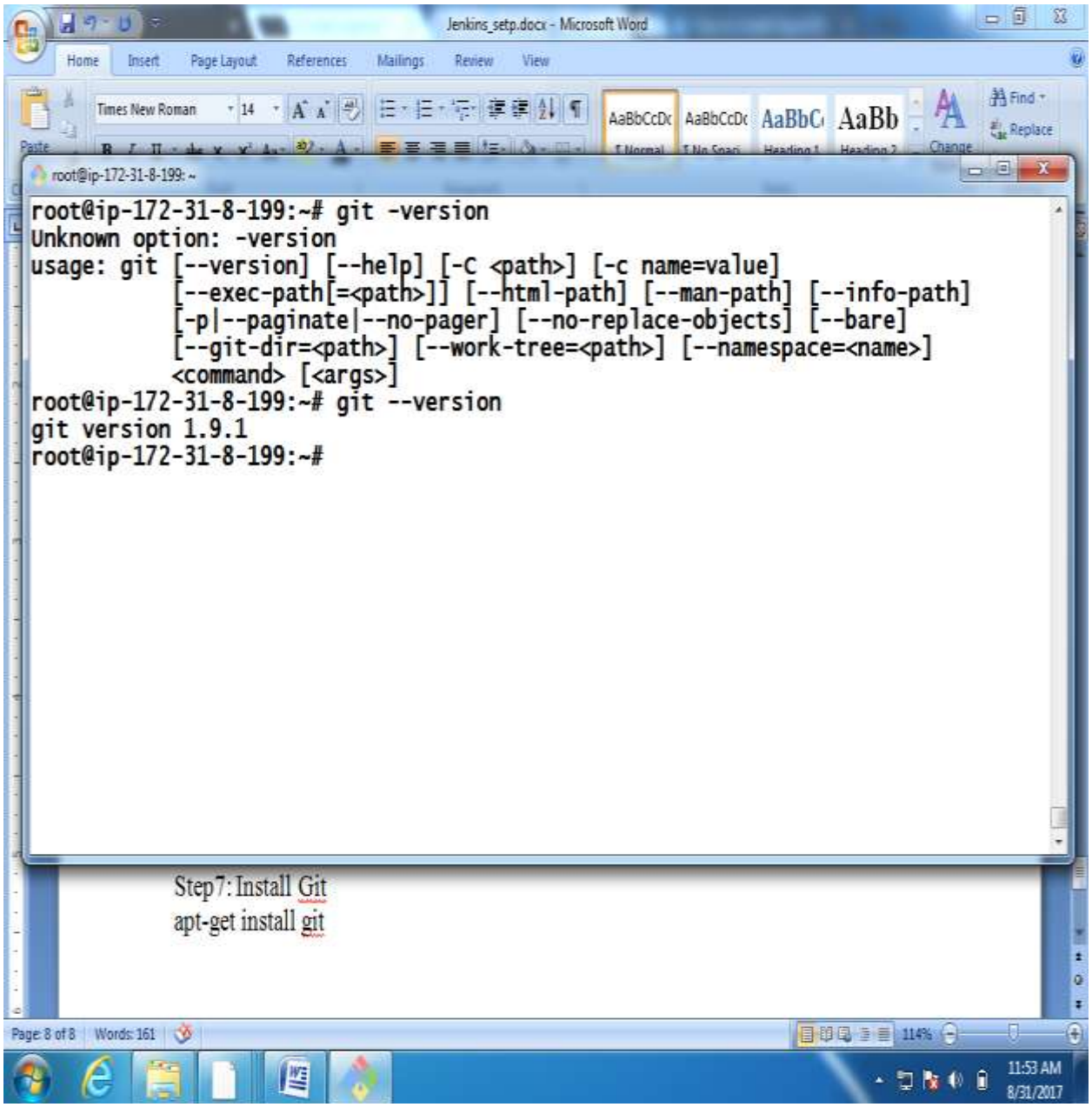
vi /etc/profile
M2_HOME=/opt/apache-maven-3.3.9
PATH=$PATH:$M2_HOME/bin
export M2_HOME
export PATH



step6: Check maven version



Step7: Install Git
apt-get install git

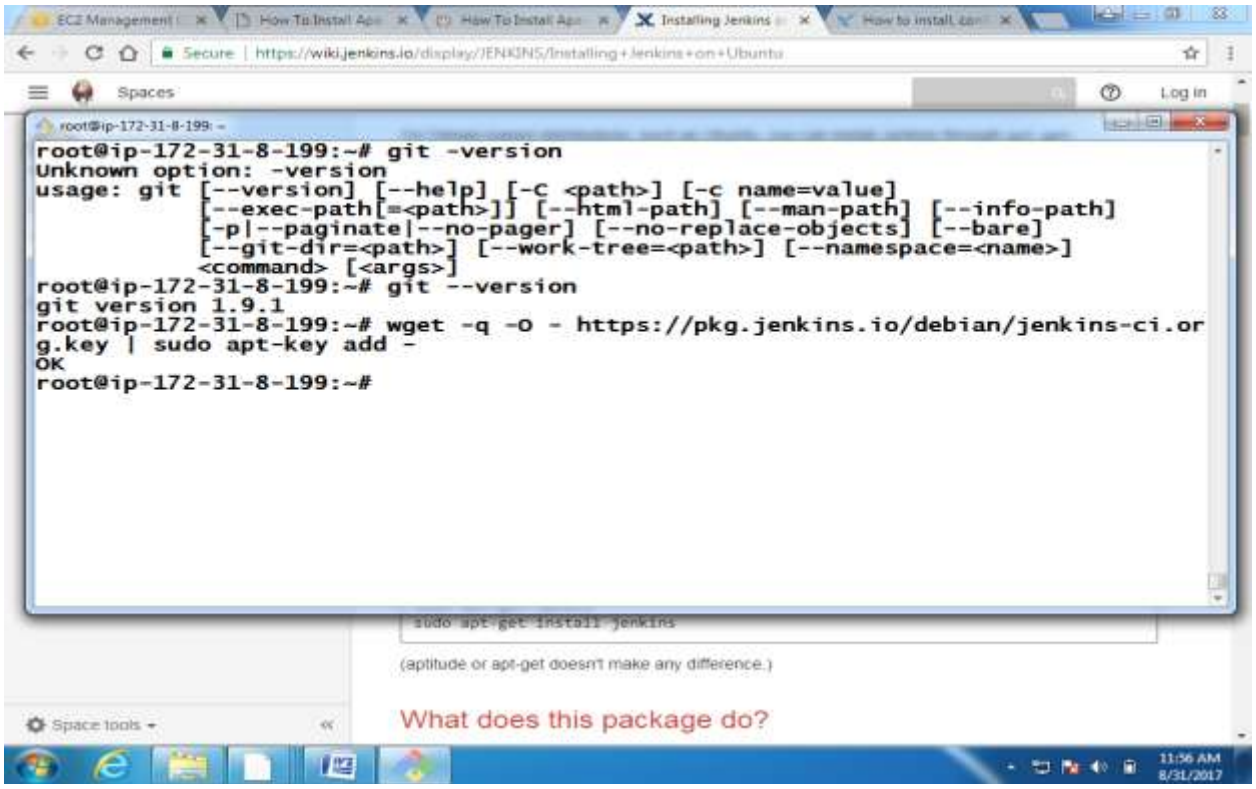


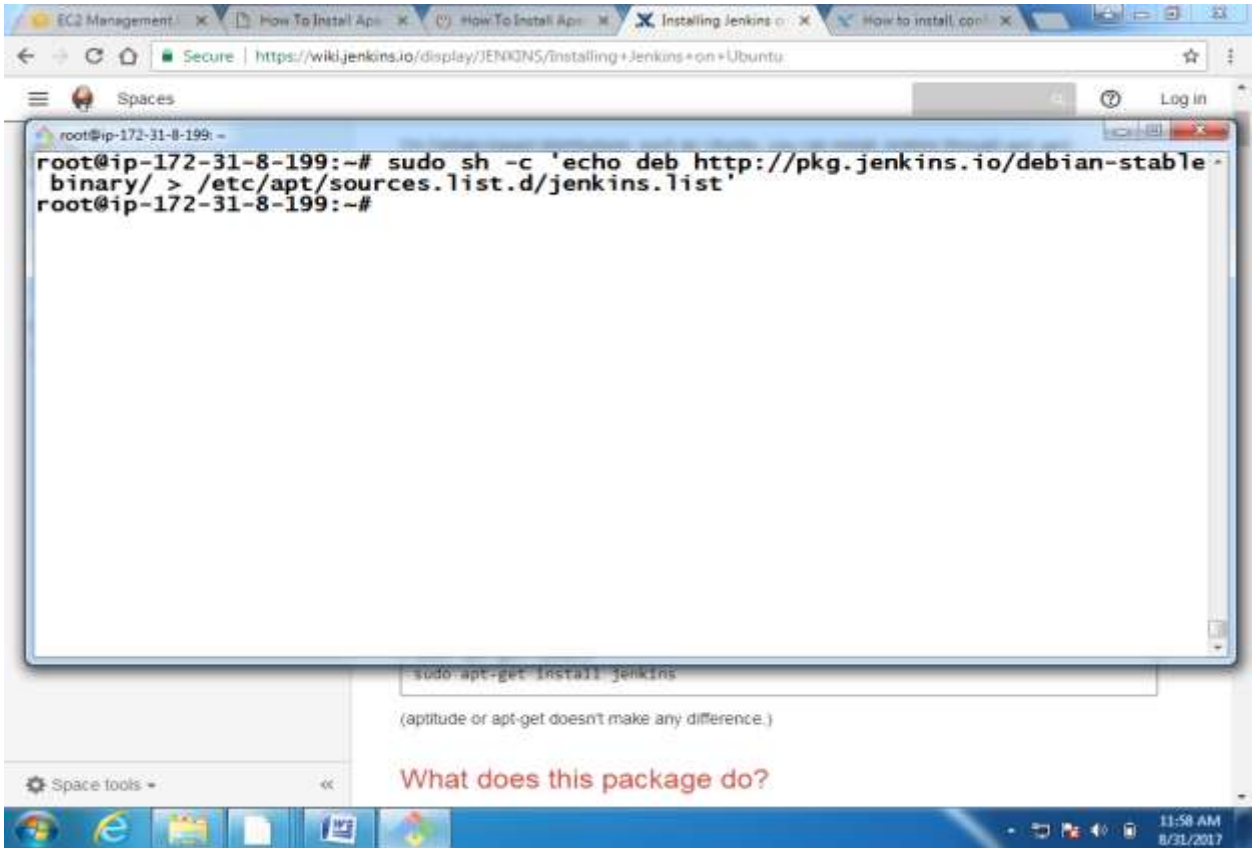
Step8: JENKINS Installation On ubuntu:14.04

Add apt repo

wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -

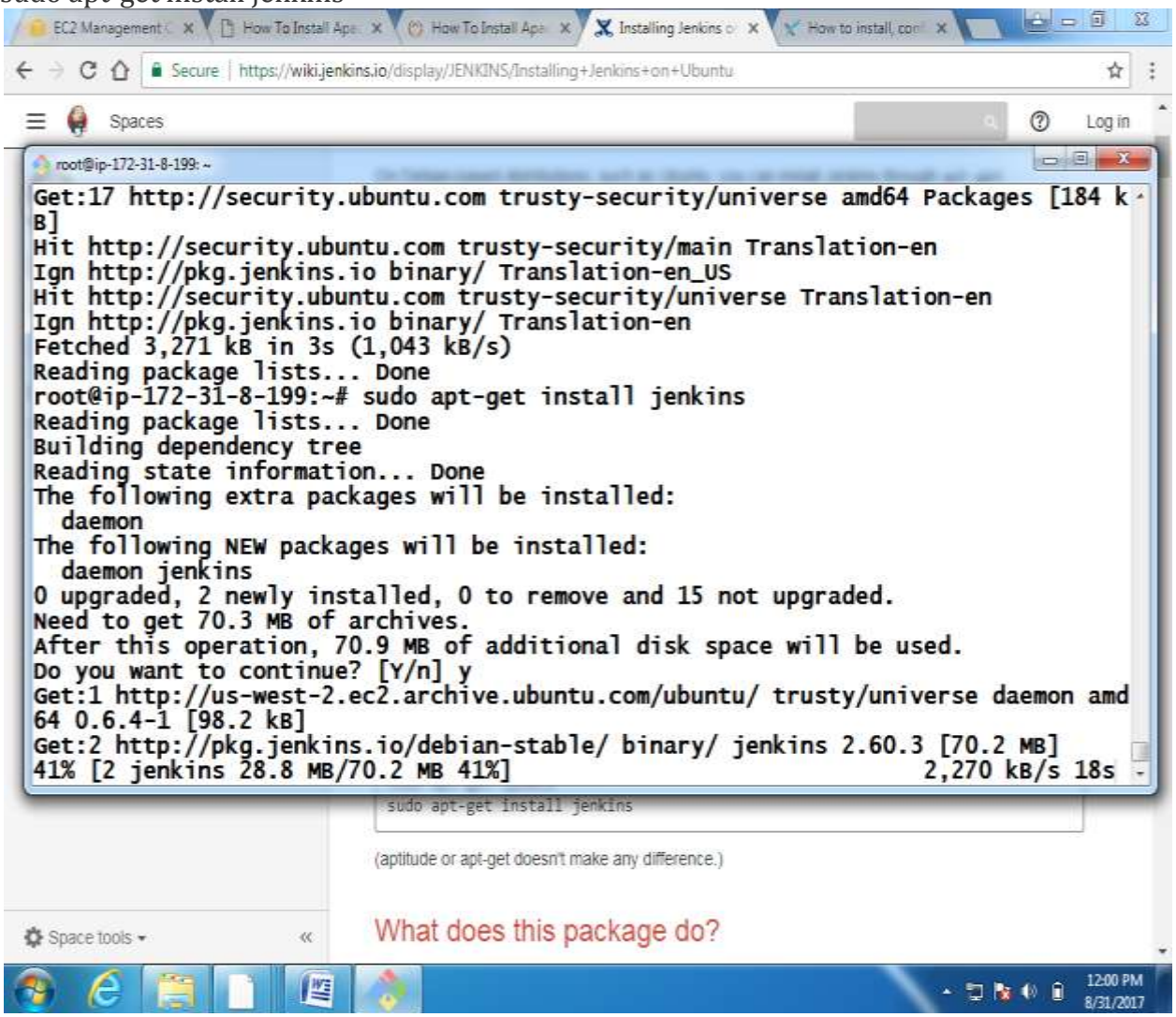
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'


root@ip-172-31-8-199:~# git -version
Unknown option: -version
usage: git [--version] [--help] [-C <path>] [-c name=value]
[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
[-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
<command> [<args>]
root@ip-172-31-8-199:~# git --version
git version 1.9.1
root@ip-172-31-8-199:~# wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -
OK
root@ip-172-31-8-199:~#
sudo apt-get install jenkins
(aptitude or apt-get doesn't make any difference.)
What does this package do?

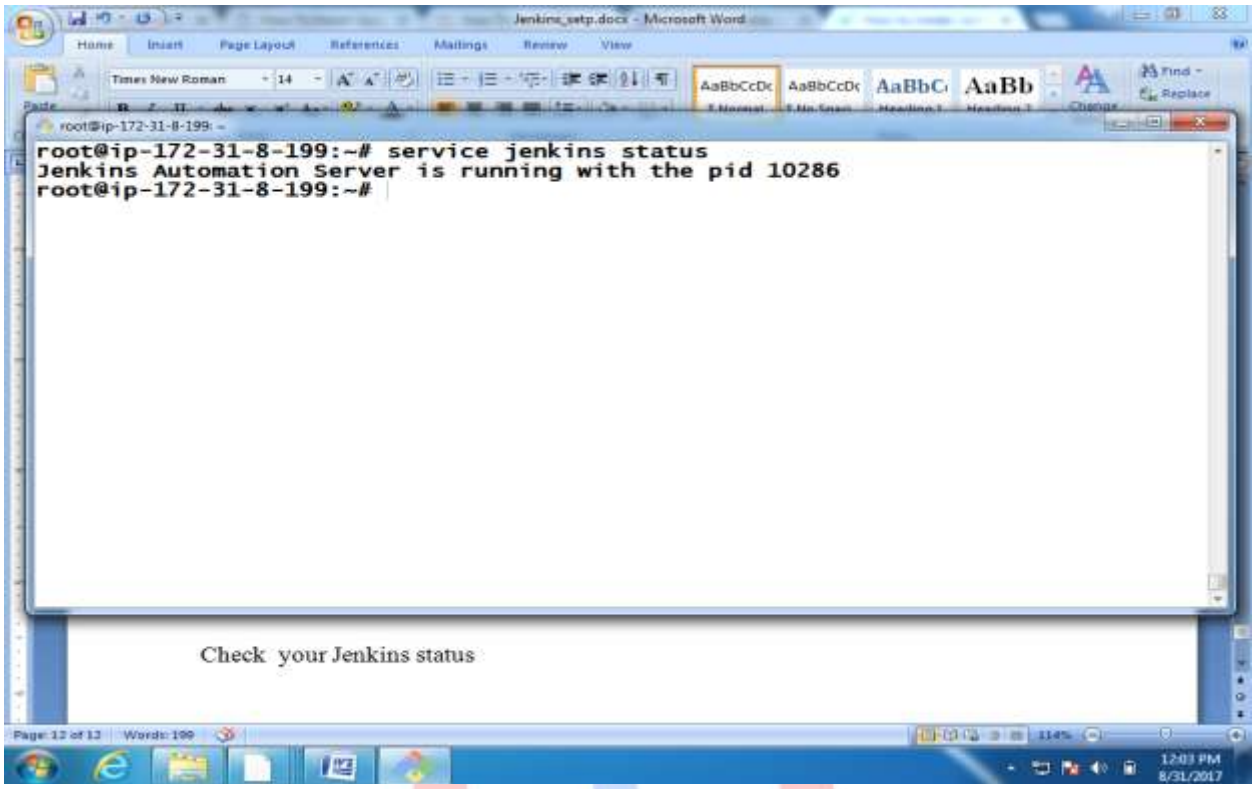

root@ip-172-31-8-199:~# sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
root@ip-172-31-8-199:~#
sudo apt-get install jenkins
(aptitude or apt-get doesn't make any difference.)
What does this package do?

sudo apt-get update

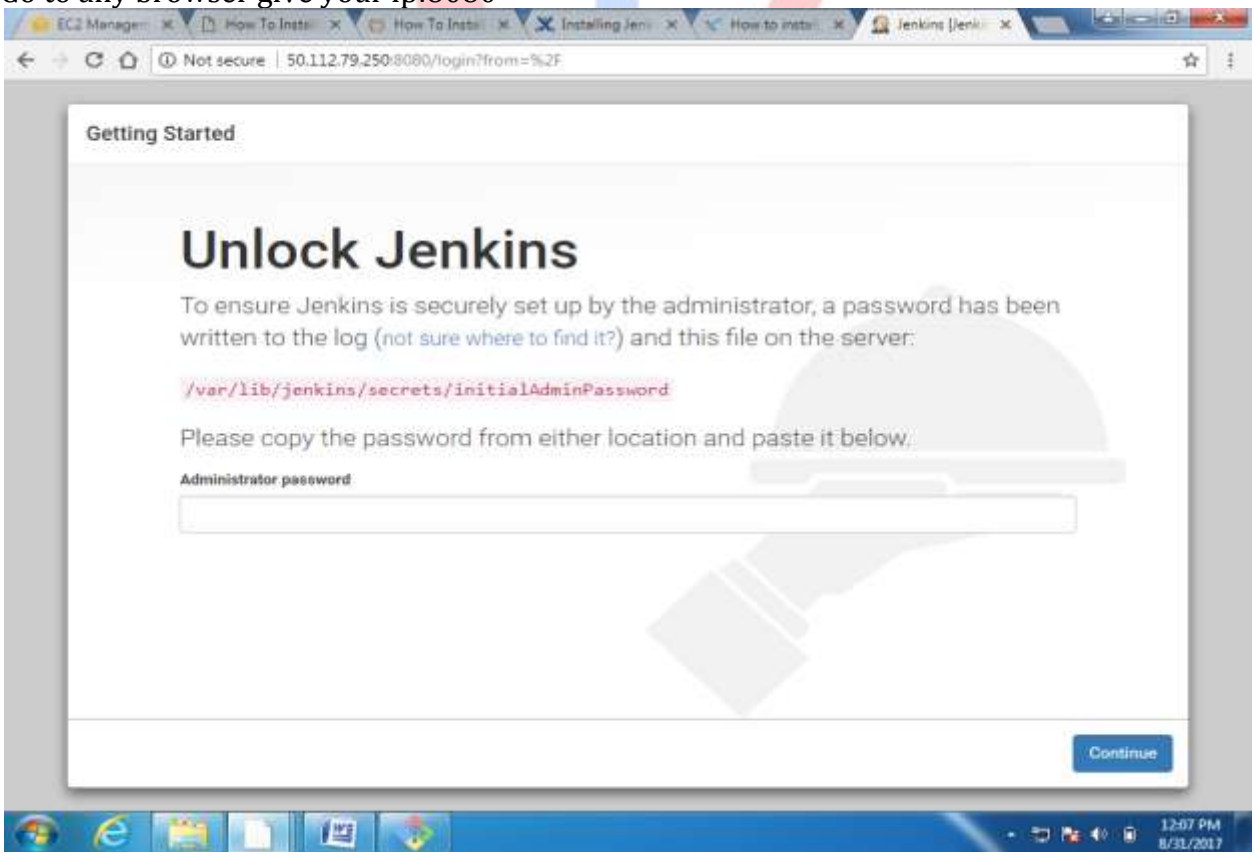
sudo apt-get install jenkins



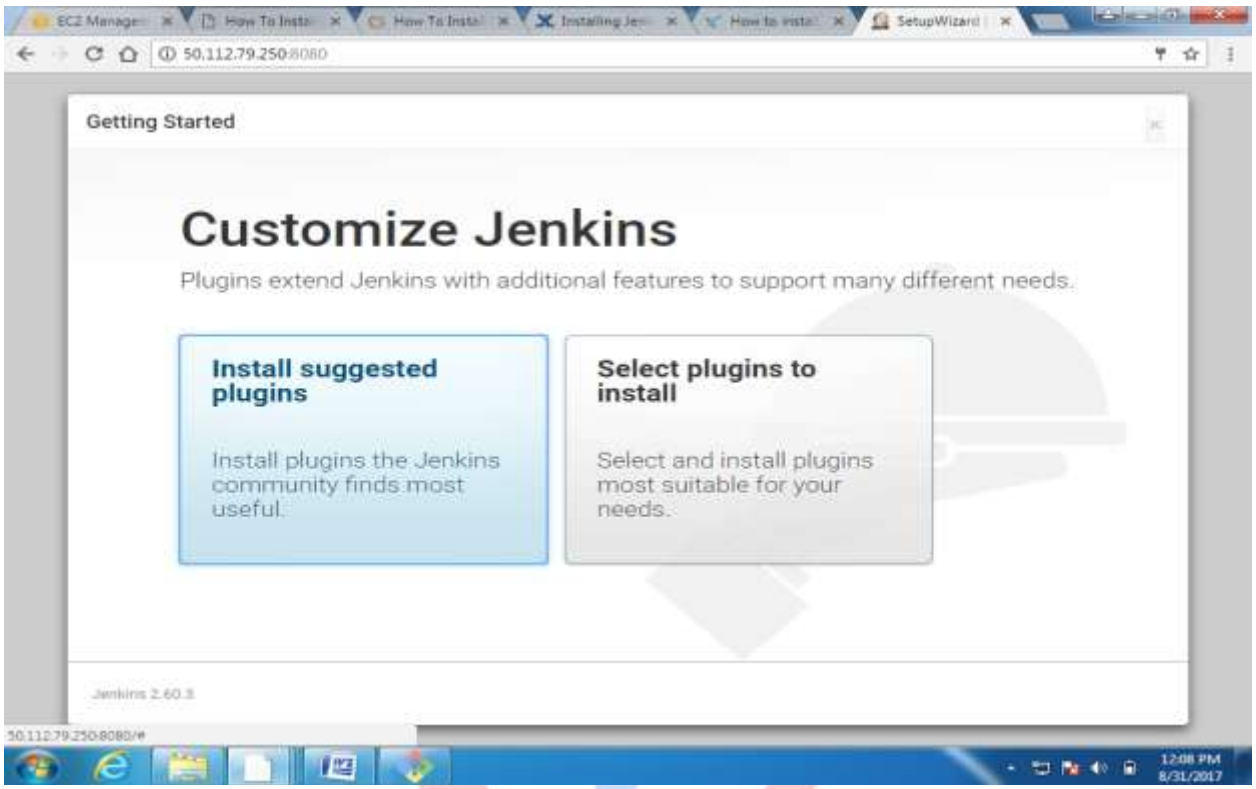
Check your Jenkins status

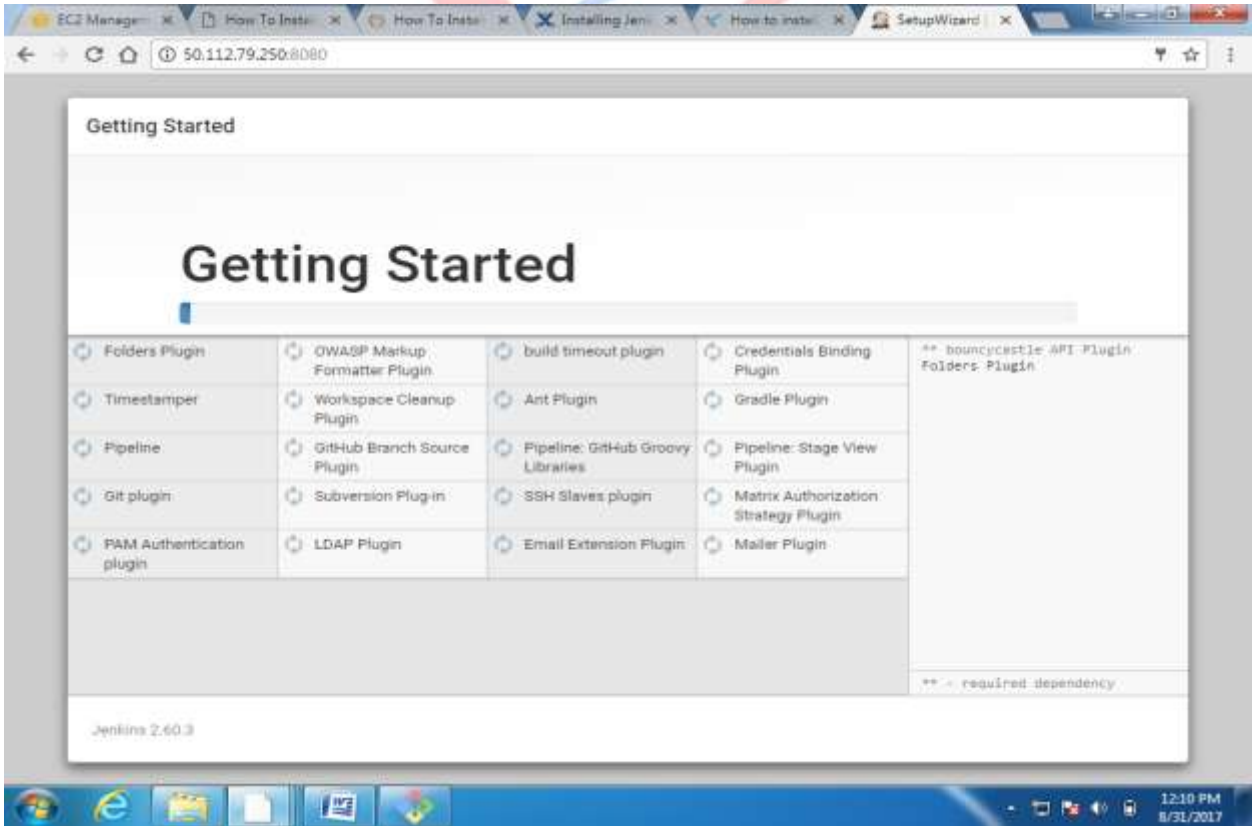


Go to any browser give your ip:8080



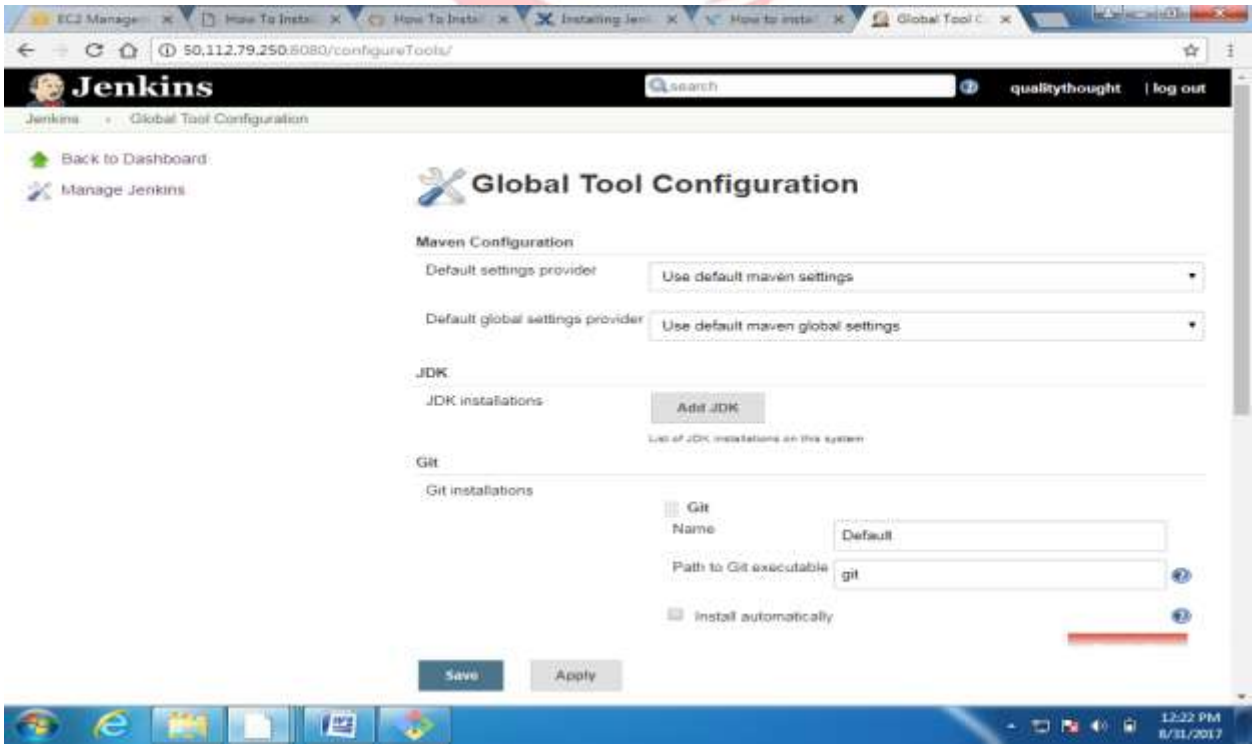
Install suggested plugins



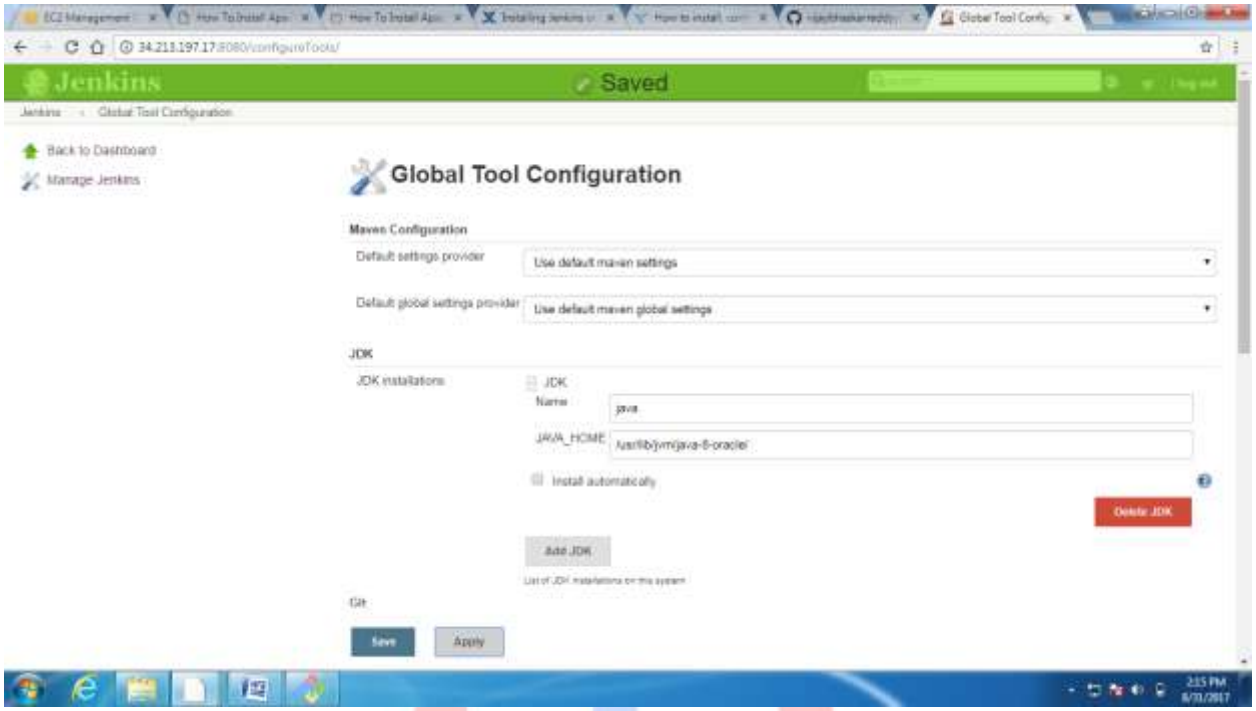


Step: Create user Fill all details whatever it asks After you will see like

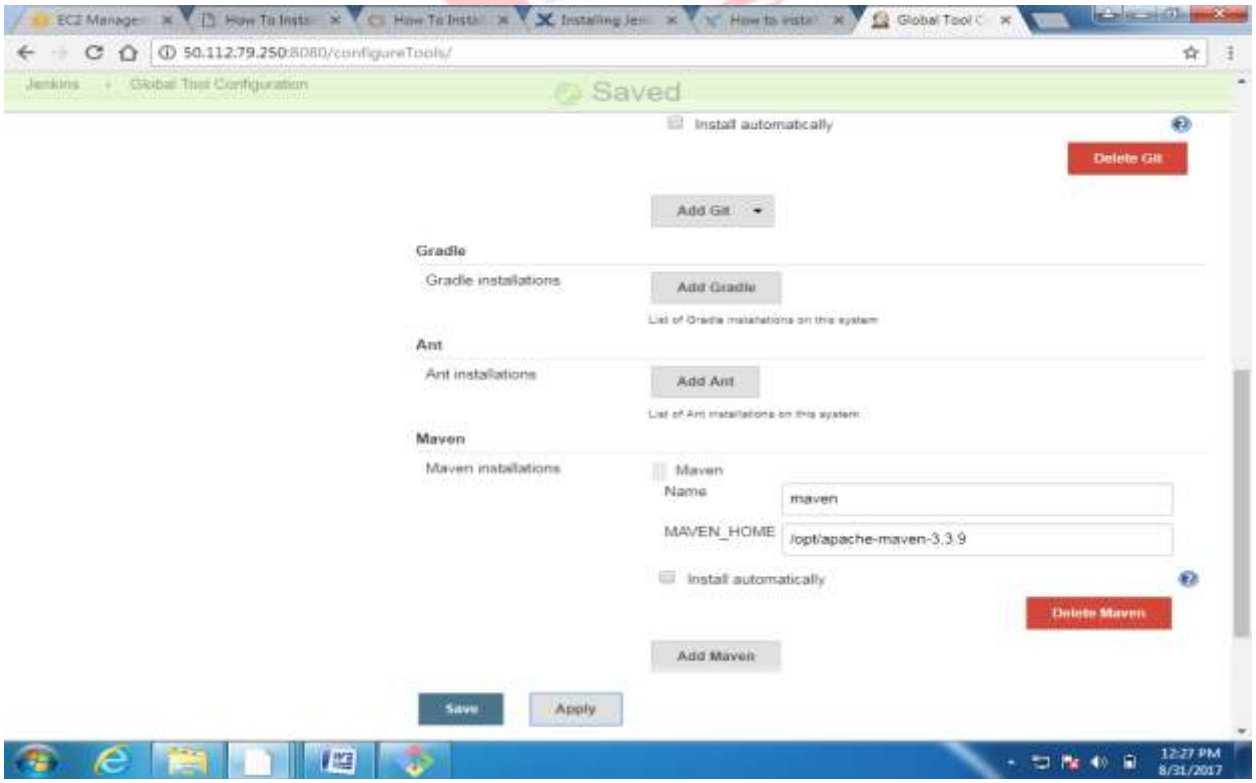
Step: Click on Mange Jenkins go to Global Tool Configuration



Step: Set JAVA_HOME Path on Jenkins Server

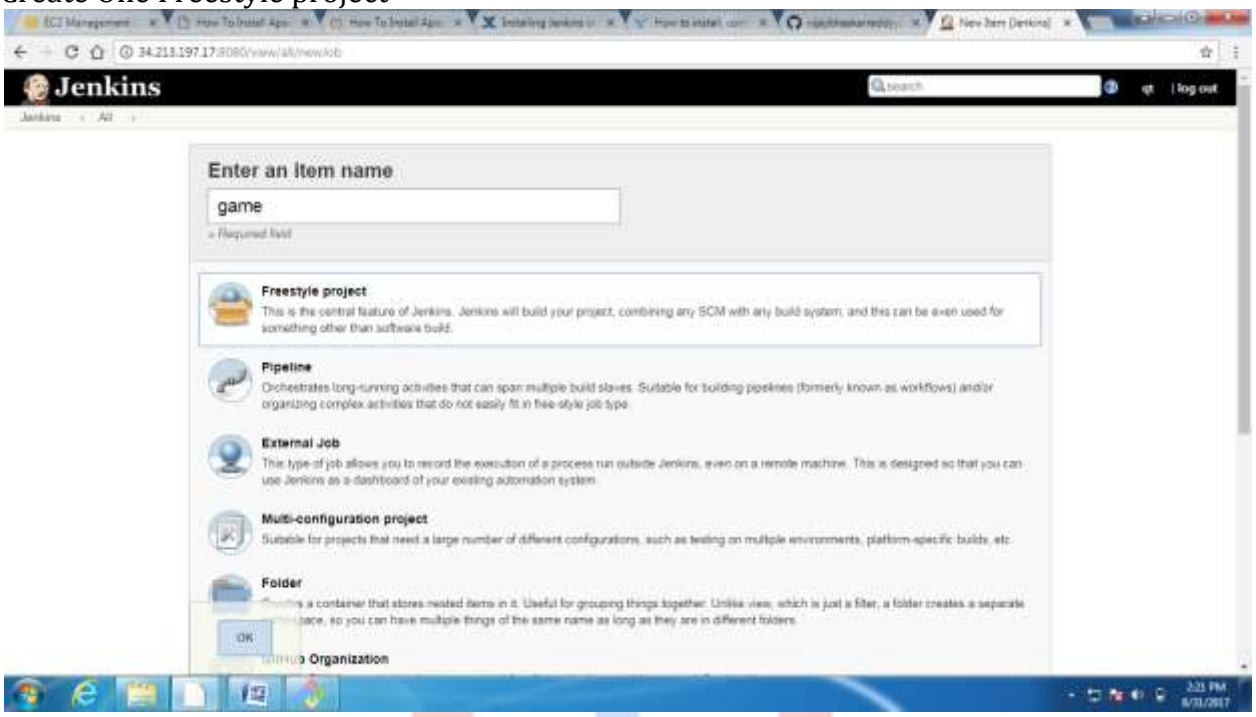


step: Set Maven path variable on Jenkins server



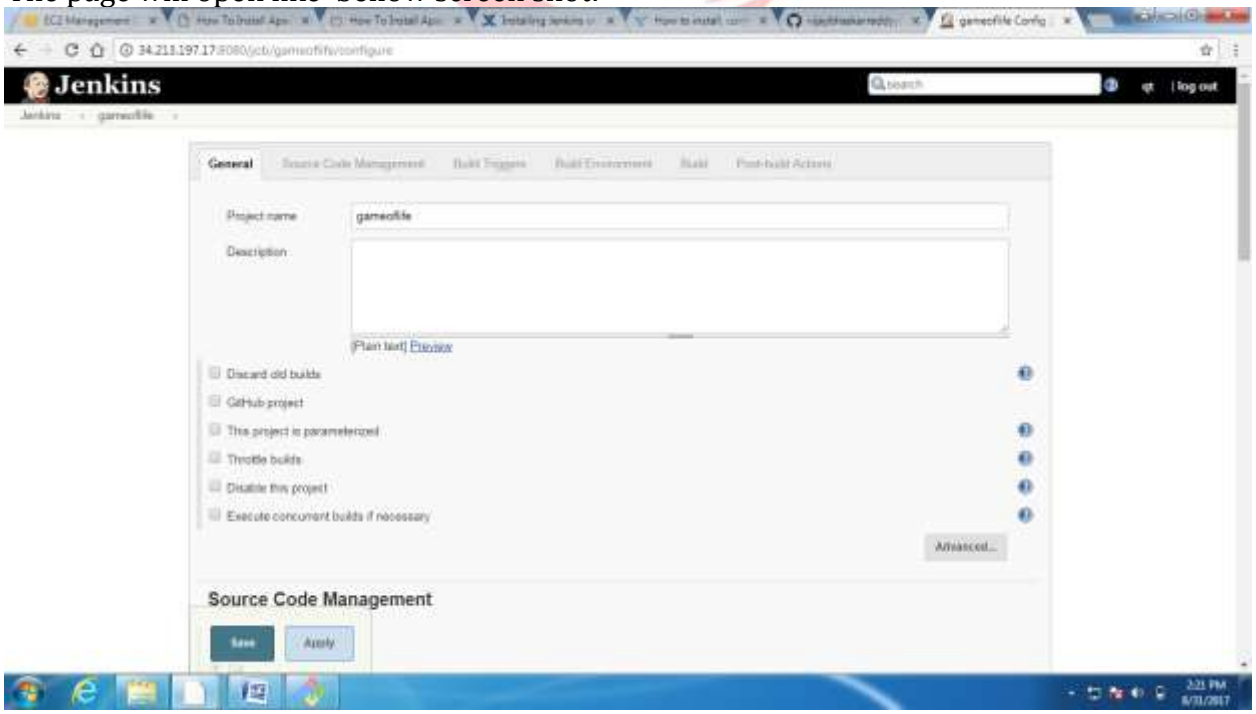
Then click apply and save

Create One Freestyle project

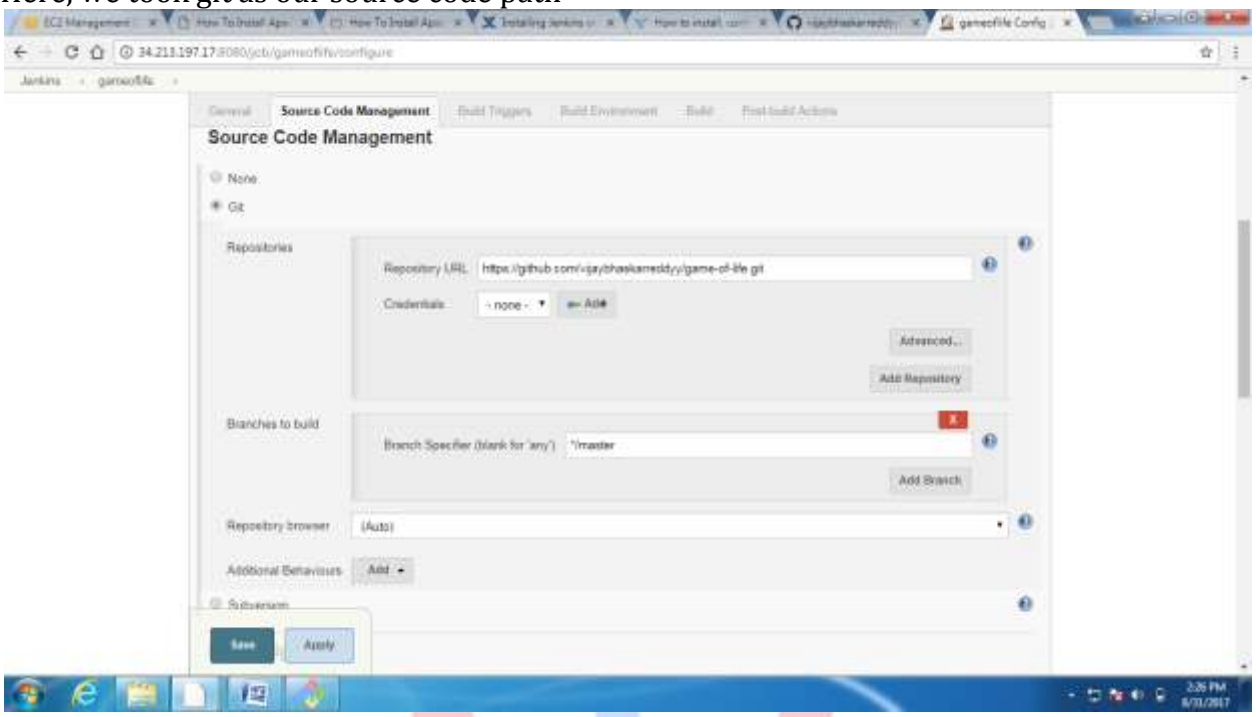


Click Ok.

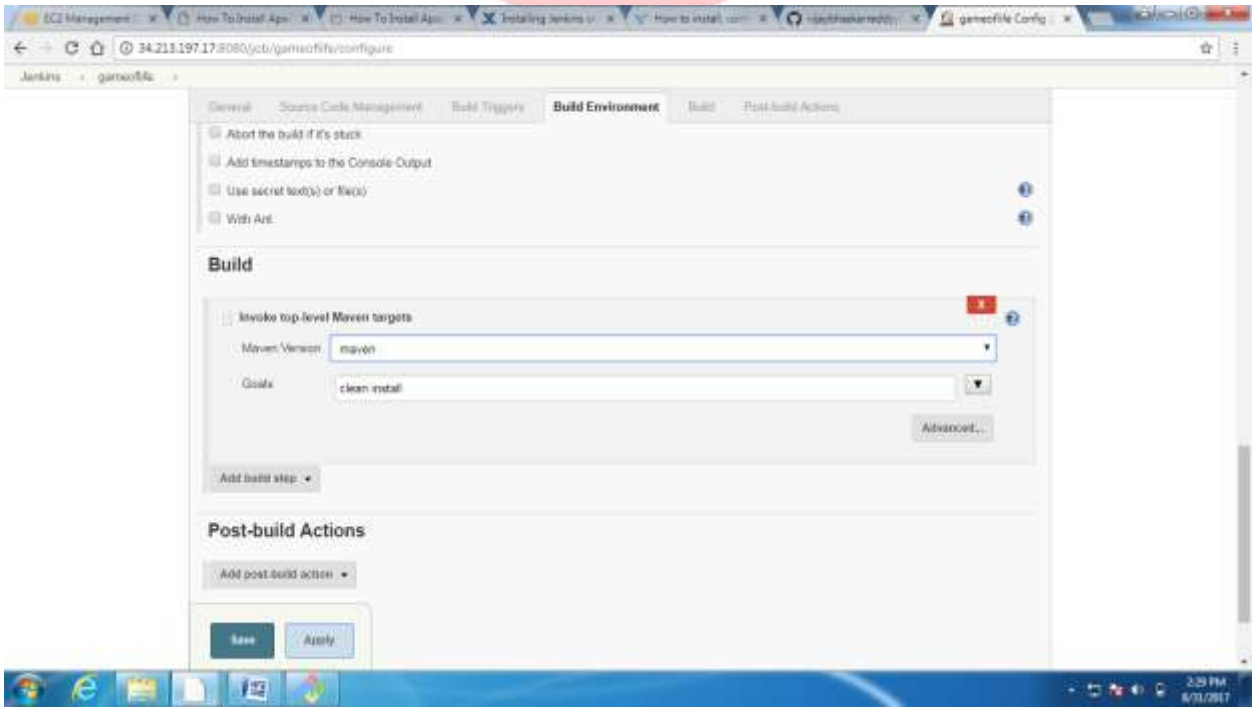
The page will open like bellow screen shot:



Scroll down and in the Source code management section enter your source code path. Here, we took git as our source code path



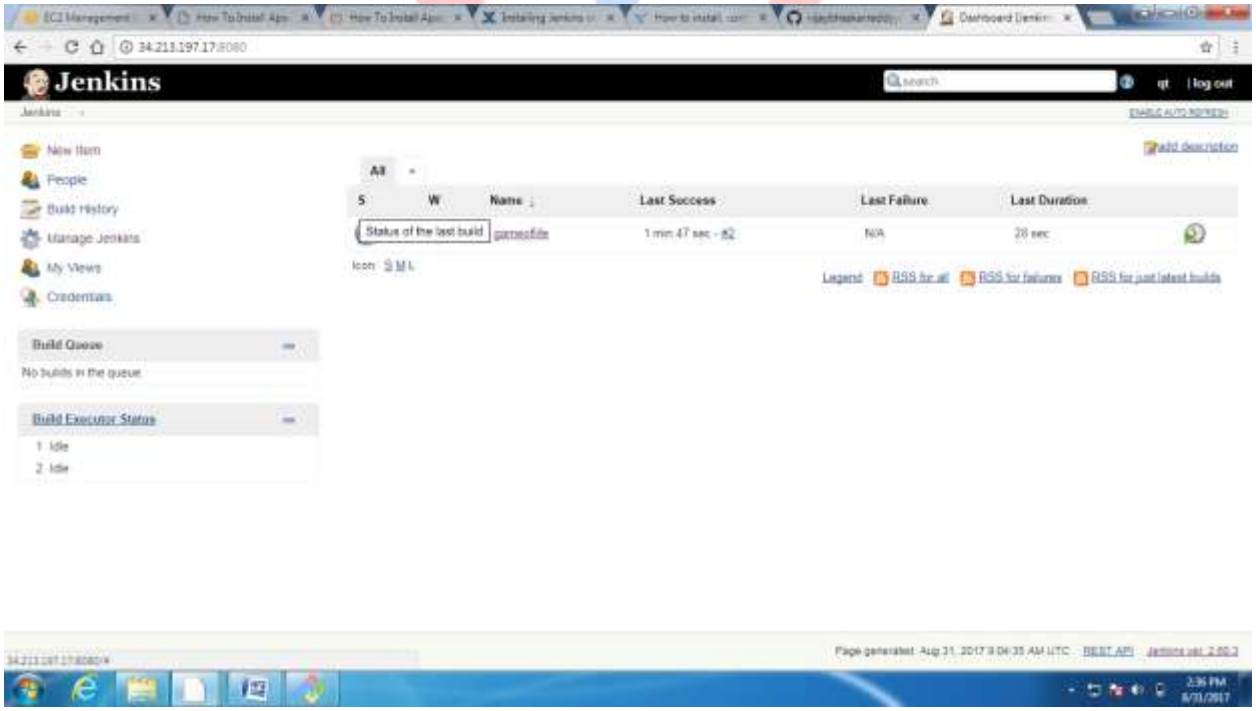
In the below Build section select "Invoke toplevel maven" in the option and enter Maven goals



click apply and save

Click Build Now option and goto console output check whether the build is success or fail

you can also check about the build output by seeing the color of the status of the last build on the dashboard.



Blue color represents success of the build and Red color represents failure of the build