JENKINS Installation Steps on UBUNTU:14.04

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

root@ip-172-31-1-115:-# java -version
java version "1.8.0_144"
Java(TM) SE Runtime Environment (build 1.8.0_144-b01)
Java HotSpot(TM) 64-Bit Server VM (build 25.144-b01, mixed mode)
root@ip-172-31-1-115:-#

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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

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step4: check your path

```
root&ip-172-31-1-115:-# java -version
java version "1.8.0_144"
Java(TM) SE Runtime Environment (build 1.8.0_144-b01)
Java Hotspot(TM) 64-Bit Server VM (build 25.144-b01, mixed mode)
root&ip-172-31-1-115:-#
```

Step5: Install maven

1. Download Apache Maven

Go to /opt directory

cd /opt

Download maven tar file

wget _http://www-eu.apache.org/dist/maven/maven-3/3.5.2/binaries/apache-maven-3.5.2-bin.tar.gz

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```
root@ip-172-31-17-244: /opt
                                                                     java version "1.8.0_161"
Java(TM) SE Runtime Environment (build 1.8.0_161-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.161-b12, mixed mode)
root@ip-172-31-17-244:~# cd /opt
root@ip-172-31-17-244:/opt# wget http://www-eu.apache.org/dist/maven/maven-3/3.
5.2/binaries/apache-maven-3.5.2-bin.tar.gz
--2018-02-15 12:32:13-- http://www-eu.apache.org/dist/maven/maven-3/3.5.2/binar
ies/apache-maven-3.5.2-bin.tar.gz
Resolving www-eu.apache.org (www-eu.apache.org)... 195.154.151.36, 2001:bc8:2142
:300::
Connecting to www-eu.apache.org (www-eu.apache.org)|195.154.151.36|:80... connec
HTTP request sent, awaiting response... 200 OK
Length: 8738691 (8.3M) [application/x-gzip]
Saving to: 'apache-maven-3.5.2-bin.tar.gz'
100%[=======] 8,738,691 4.23MB/s in 2.0s
2018-02-15 12:32:16 (4.23 MB/s) - 'apache-maven-3.5.2-bin.tar.gz' saved [8738691
/8738691]
root@ip-172-31-17-244:/opt# ls
apache-maven-3.5.2-bin.tar.gz
root@ip-172-31-17-244:/opt#
```

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```
Extract Apache Maven:

Using below command:

sudo tar xzf apache-maven-3.5.2-bin.tar.gz

After run below command:

sudo ln -s /opt/apache-maven-3.5.2/bin/mvn /usr/bin/mvn
```

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Setup Environment Variables for maven

Go to /etc/profile add bellow steps

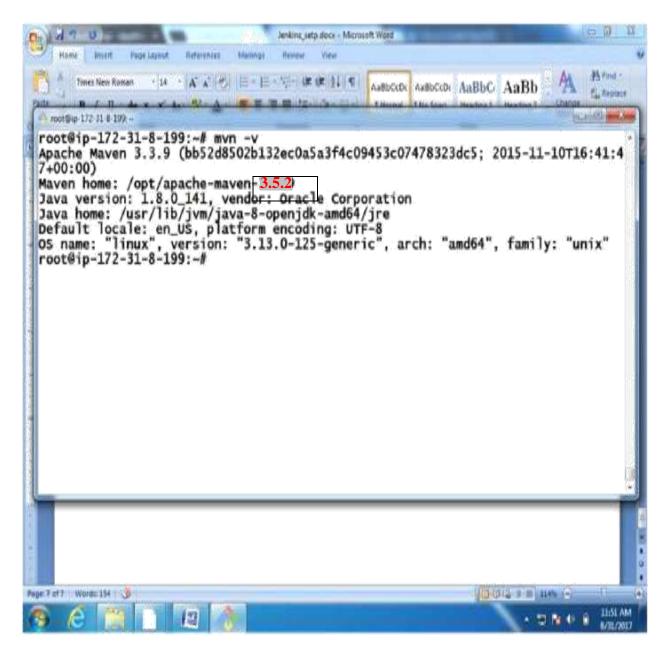
vi /etc/profile M2_HOME=/opt/apache-maven-3.5.2 PATH=\$PATH:\$M2_HOME/bin export M2_HOME export PATH

```
root@ip-172-31-17-244: ~
                                                                                    X
      PS1='$ '
    fi
# The default umask is now handled by pam_umask.
# See pam_umask(8) and /etc/login.defs.
if [ -d /etc/profile.d ]; then
 for i in /etc/profile.d/*.sh; do
  if [ -r $i ]; then
      . $i
 done
 unset i
export JAVA_HOME=/usr/lib/jvm/java-8-oracle/
export PATH=$PATH:$HOME/bin:$JAVA_HOME/bin
M2_HOME=/opt/apache-maven-3.5.2
PATH=$PATH:$M2_HOME/bin
export M2_HOME
export PATH
-- INSERT --
                                                                  37,1
                                                                                 Bot
```

step6: Check maven version

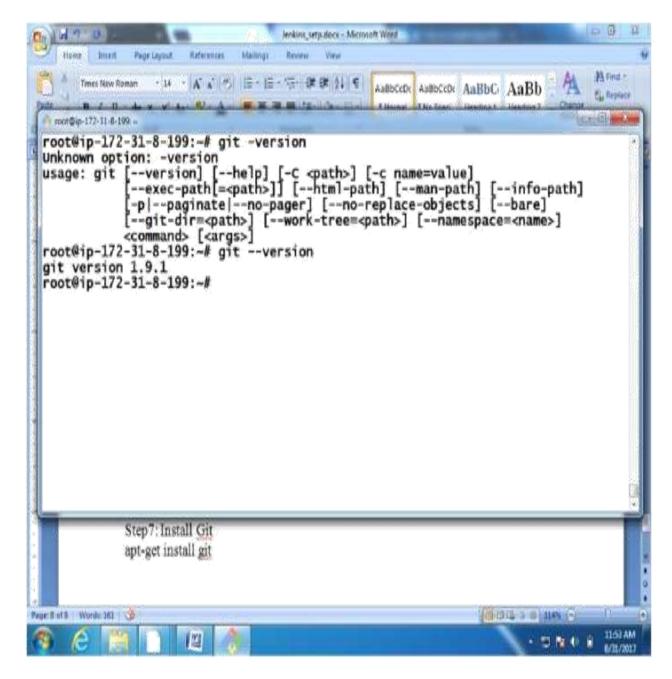
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Step7: Install Git apt-get install git

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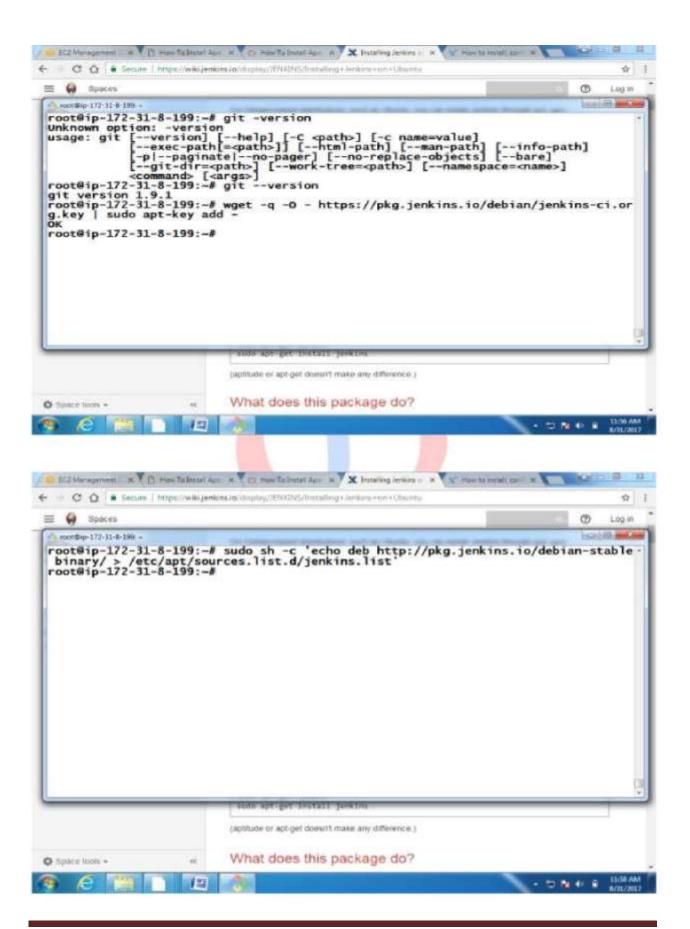
Step8: JENKINS Installation On ubuntu:14.04 Add apt repo

wget -q -0 - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -

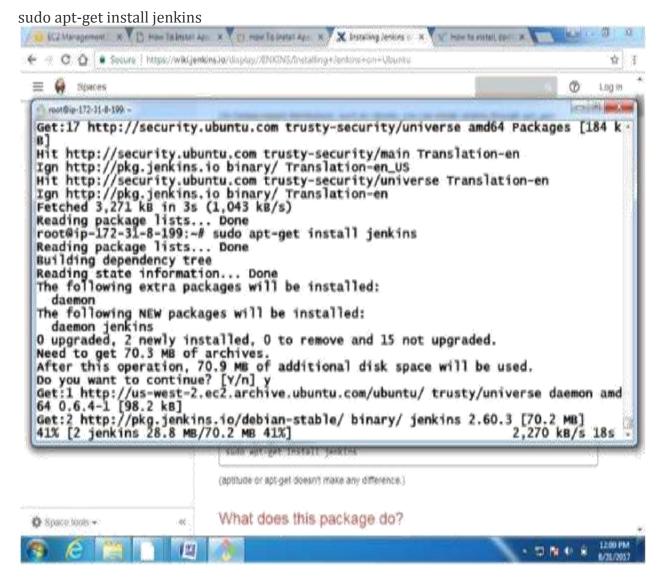
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ >/etc/apt/sources.list.d/jenkins.list'

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sudo apt-get update

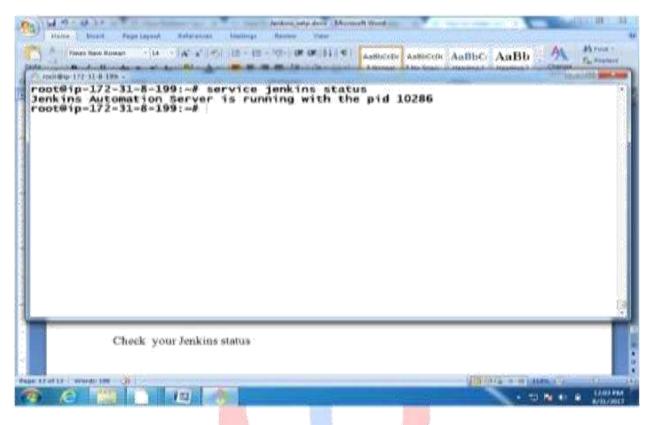


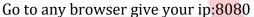
Check your Jenkins status

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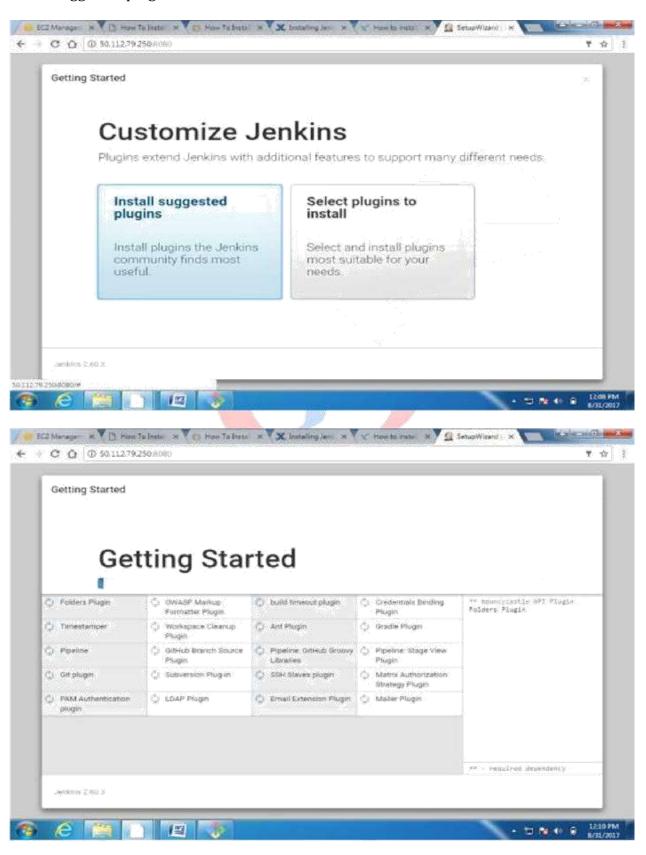
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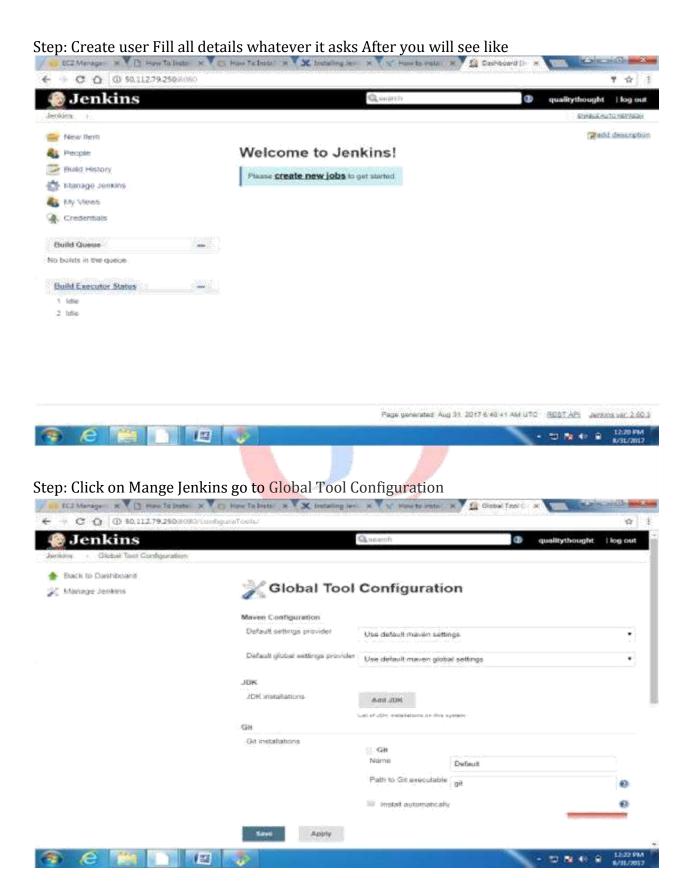




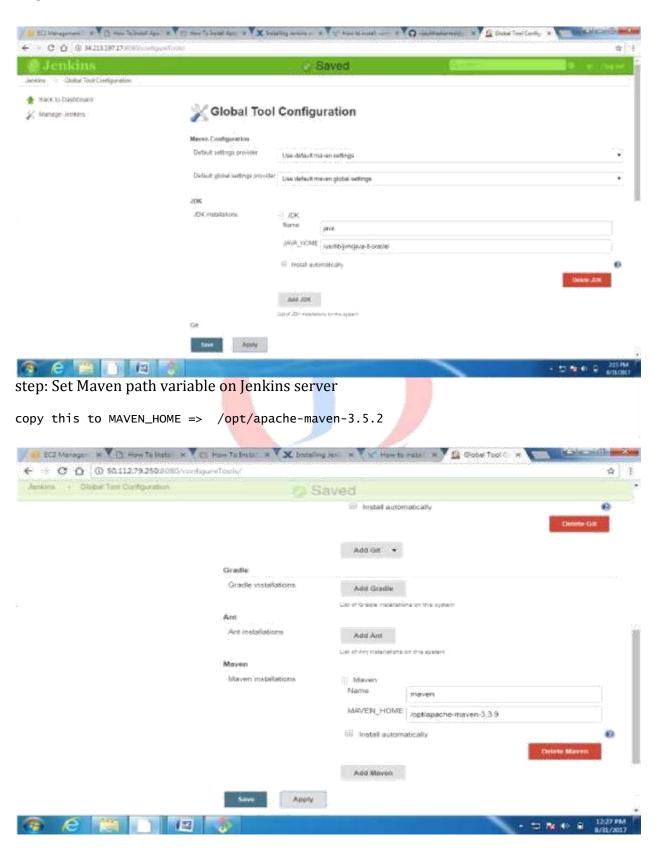


Install suggested plugins

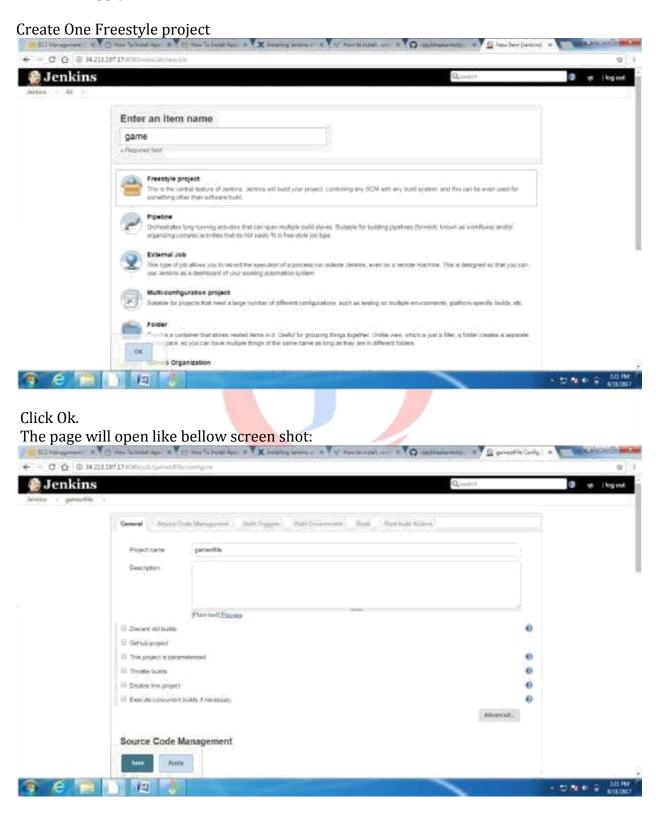




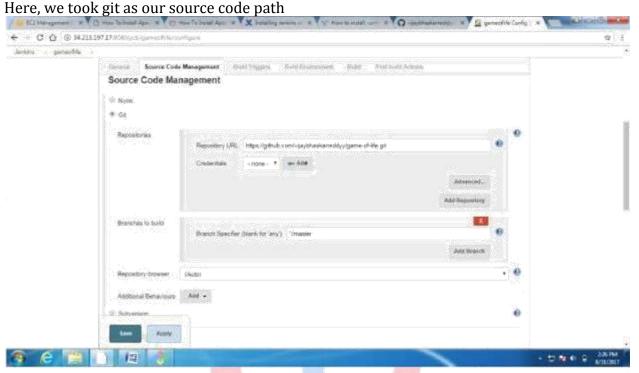
Step: Set JAVA_HOME Path on Jenkins Server



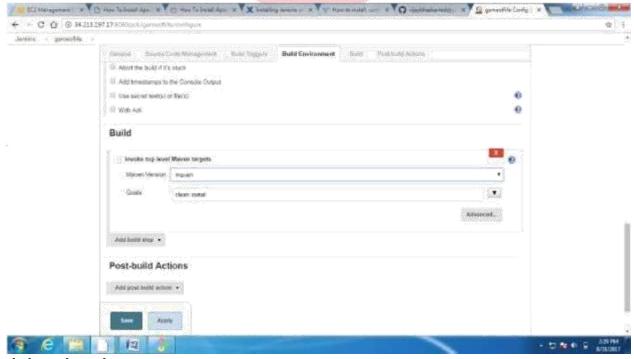
Then click apply and save



Scroll down and in the Source code management section enter your source code path.



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

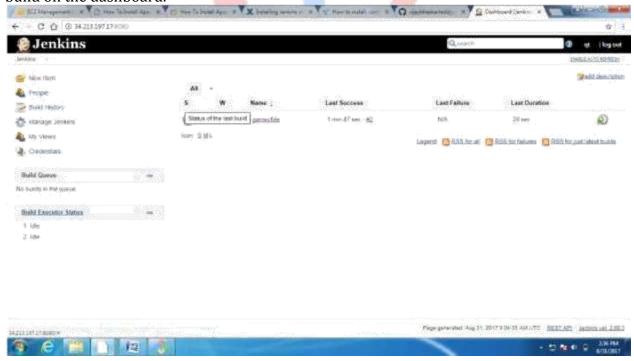


click apply and save

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