**JAVA Installation:**

**Ubuntu:**

sudo add-apt-repository ppa:webupd8team/java

sudo apt-get update

sudo apt-get install oracle-java7-installer

There will be one or more java versions available in same machine. We can configure default java version using below command.

sudo update-alternatives --config java

here are 5 choices for the alternative java (providing /usr/bin/java).

Selection Path Priority Status

------------------------------------------------------------

\* 0 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java 1081 auto mode

1 /usr/lib/jvm/java-6-oracle/jre/bin/java 1 manual mode

2 /usr/lib/jvm/java-7-oracle/jre/bin/java 2 manual mode

3 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java 1081 manual mode

4 /usr/lib/jvm/java-8-oracle/jre/bin/java 3 manual mode

5 /usr/lib/jvm/java-9-oracle/bin/java 4 manual mode

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

CentOS:

# yum update

# yum remove java-1.6.0-openjdk

# yum remove java-1.7.0-openjdk

**### For 32 bit**

# wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u45-b14/jdk-8u45-linux-i586.rpm"

**### For 64 bit**

# wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u45-b14/jdk-8u45-linux-x64.rpm"

**### For 32 bit**

# rpm -ivh jdk-8u45-linux-i586.rpm

**### For 64 bit**

# rpm -ivh jdk-8u45-linux-x64.rpm

# java -version

java version "1.8.0\_45"

Java(TM) SE Runtime Environment (build 1.8.0\_45-b14)

Java HotSpot(TM) 64-Bit Server VM (build 25.45-b02, mixed mode)

Step 2 — Installing Jenkins

Ubuntu:

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'

sudo apt-get update

sudo apt-get install Jenkins

after installation, open yourIP:8080 take password from below location and .

cat /var/lib/jenkins/secrets/initialAdminPassword

CentOS7:

sudo yum -y install java

yum whatprovides service

sudo wget -O /etc/yum.repos.d/jenkins.repo <http://pkg.jenkins-ci.org/redhat/jenkins.repo>

sudo rpm --import <https://jenkins-ci.org/redhat/jenkins-ci.org.key>

sudo yum install Jenkins

after installation, open yourIP:8080 take password from below location and .

cat /var/lib/jenkins/secrets/initialAdminPassword

Installing from war.

wget <http://mirrors.jenkins-ci.org/war/latest/jenkins.war>

java -jar jenkins.war

**After login:**

Select your plugin to configure Jenkins

Create admin account and Save & Finish.

# Setting up an Apache Proxy for port 80 -> 8080

* This configuration will setup Apache2 to proxy port 80 to 8080 so that you can keep Jenkins on 8080.
* sudo aptitude install apache2
* sudo a2enmod proxy
* sudo a2enmod proxy\_http
* sudo a2dissite default

|  |  |
| --- | --- |
| https://wiki.jenkins-ci.org/images/icons/emoticons/information.gif | If you get ERROR: Site default does not exist! then try this instead:   * sudo a2dissite 000-default   And if all else fails just have a look if there is a default site set up at all:   * ls /etc/apache2/sites-enabled/ |

* Create a file called jenkins.conf in /etc/apache2/sites-available

<VirtualHost \*:80>

ServerAdmin webmaster@localhost

ServerName ci.company.com

ServerAlias ci

ProxyRequests Off

<Proxy \*>

Order deny,allow

Allow from all

</Proxy>

ProxyPreserveHost on

ProxyPass / http://localhost:8080/ nocanon

AllowEncodedSlashes NoDecode

</VirtualHost>

* sudo a2ensite jenkins
* sudo apache2ctl restart

Test Jenkins:

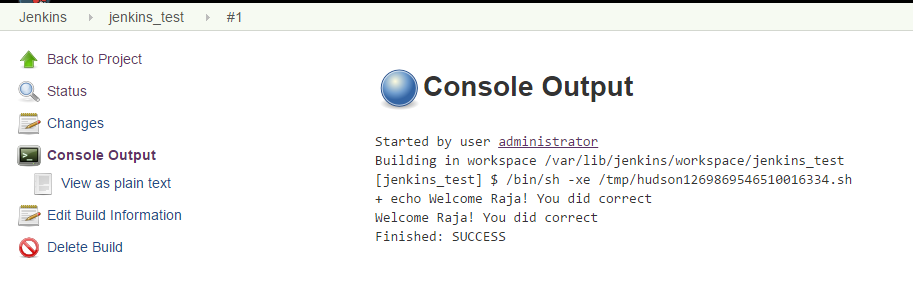
Create freestyle project

In Build execute shell



Add your command and save.

Build now and see console output.



**Building Maven Project:**

Install Maven in your machine

apt-cache search maven

sudo apt-get install maven

ls -ls /usr/share/maven

mvn -version

edit /etc/profile

JAVA\_HOME=/usr/lib/jvm/java-8-oracle

PATH=$PATH:$JAVA\_HOME/bin

export JAVA\_HOME

export PATH

M2\_HOME=/usr/share/maven

PATH=$PATH:$M2\_HOME/bin

export M2\_HOME

export PATH

or export with values and source environment