

How to setup Jenkins and java_home in aws server

—————>>>>>> For UBUNTU <<<<<<—————

***** JAVA and how to set it path *****

1.Launch the instance and connect it through terminal

2.first update the sudo by "apt-get update"

3.Then we need to download the java jdk initially

4.command to download java jdk id apt install java-1.8*

Note: The yum command is not available in ubuntu to use the command as above

5.Once the java is downloaded the use this command to locate the java related files I.e find / -name java — gives the java path

6.Next we need to set. Path for java_jdk by open the bash_profile or .bashrc file through command vi ~/.bash_profile

6.The set the path by following commands

```
export JAVA_HOME="path to java"
```

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

8After giving path save and exit from terminal and then type source

~/.bash_profile and then execute the echo \$JAVA_HOME

/usr/bin/java — Then it should give path like this

9.If not the follow the link provided <https://www.digitalocean.com/community/tutorials/how-to-install-java-with-apt-on-ubuntu-18-04>

***** Jenkins and how to set it path for Workspace *****

10.Then Download the Jenkins by following commands

```
sudo apt update
```

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

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

```
apt install jenkins
```

Note: Don't run the Jenkins after once it get Installed please go to 11 step and start Jenkins

11.Then the Jenkins will be downloaded in /usr/var/jenkins

12. Then change the Jenkins workspaces if you required

To change workspace go to terminal and open vi ~/.bash_profile

Type the following command

```
export JENKINS_HOME=/usr/ubuntu/jenkins
```

But before this make sure that this location is available or not if not create it
Then close the terminal and start again the terminal then the
Jenkins_Workspace location will be changed as you set in above

Note: If not the follow the link provided <https://linuxize.com/post/how-to-install-jenkins-on-ubuntu-18-04/>

***** Maven and how to set it path *****

13. To download maven type the following command apt install maven

14. Once it downloaded we need to set path for that

15. open the terminal and type vi ~/.bash_profile

16. give the following in bash_file

```
export M2_HOME="/usr/share/maven"  
export PATH=$M2_HOME/bin:$PATH
```

17. Then after this type source ~/.bash_profile

18. Then type mvn -version or mvn --version

19. It will show like this for example point if view

Maven home: /Users/share/maven

Java version: 1.8.0_201, vendor: Oracle Corporation, runtime: /Library/Java/
JavaVirtualMachines/jdk1.8.0_201.jdk/Contents/Home/jre

Default locale: en_IN, platform encoding: UTF-8

OS name: "mac os x", version: "10.12.6", arch: "x86_64", family: "mac"

If not then java path is not correct again u need to set the path correct then
only it will give output like above example

20. If not the follow the link provided <https://linuxize.com/post/how-to-install-apache-maven-on-ubuntu-18-04/>

—————>>>>> IN RED HAT <<<<<<—————

***** JAVA and how to set it path *****

- 1.Launch the instance and connect it through terminal
- 2.first update the sudo by “apt-get update” this will not work in RedHat so update the yum update
- 3.Then we need to download the java jdk initially
- 4.command to download java jdk id yum install java-1.8*
- Note: For Jenkins java -jdk 1.8 is stable and support one
- 5.Next we need to set. Path for java_jdk by open the bash_profile or .bashrc file through command vi ~/.bash_profile
- 6.The set the path by following commands

```
export JAVA_HOME="/usr/lib/jvm/java/bin"
export PATH=$JAVA_HOME/bin:$PATH
```

- 7.Then exit from the vi editor and type echo \$JAVA_HOME
- If above noted showed the path then type source ~/.bash_profile and then execute the echo \$JAVA_HOME
- 8.It should give the path /usr/bin/java like this

***** Jenkins and how to set it path for Workspace *****

- 9.Then to get Jenkins downloaded the following commands should be entered

```
curl --silent --location http://pkg.jenkins-ci.org/redhat-stable/jenkins.repo |
sudo tee /etc/yum.repos.d/jenkins.repo.
```

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

```
sudo yum install jenkins
```

- 10.Then to start the jenkins enter the following command sudo systemctl start jenkins
- 11.To know the status whether the Jenkins is running or not type the following command systemctl status jenkins

Note : For any doubts refer the following link <https://linuxize.com/post/how-to-install-jenkins-on-centos-7/>
And and follow the Link of video <https://www.youtube.com/watch?v=M32O4Yv0ANc>

- 12.Then with help of public ip-in aws open the new tab in browser and try to open the Jenkins

But before you launch Jenkins if you are choosing a Security group then make sure that ssh port for 8080 is added or not if not you can't access
And in the same way you should added ssh other wise you cannot the launched server in your system

We can install softwares through yum to rpm but the yum is latest one and rpm is old one

To install software through rpm we need to download all the depenceies manually

But for yum it will download automativally by single command

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15.open the terminal and type vi ~/.bash_profile

16.give the following in bash_file

```
export M2_HOME="/usr/share/maven"
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```

17.Then after this type source ~/.bash_profile

18.Then type mvn -version or mvn --version

19.It will show like this for example point if view

Maven home: /Users/share/maven

Java version: 1.8.0_201, vendor: Oracle Corporation, runtime: /Library/Java/JavaVirtualMachines/jdk1.8.0_201.jdk/Contents/Home/jre

Default locale: en_IN, platform encoding: UTF-8

OS name: "mac os x", version: "10.12.6", arch: "x86_64", family: "mac"