**To Install Java, Maven, Jenkins, Docker**

**Prerequisites:**

Launch an EC2 instance Amazon Linux 2 AMI(Free tier eligible)

Select T2.xlarge

Launch the instance with Key pair

Server is ready for use.

**Steps to connect to server:**

Copy the server public IP and connect to the server using Mobaxterm

provide the IP in SSH Remote Host and USer name : ec2-user

provide the key pair in advanced SSH settings.

you connection is successful.

**Switch to root user:**

command : sudo -i

**INSTALL JAVA GIT DOCKER**

command : yum install java-1.8.0-openjdk java-1.8.0-openjdk-devel git docker -y

**verify the softwares**

command:

java -version

git --version

docker --version

**Download and install maven:**

Go to opt directory and download with wget command and extract with tar command. Need to set environment variables.

**command:**

cd /opt

wget https://downloads.apache.org/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.tar.gz

ll

tar xvf apache-maven-3.6.3......

\*\*\* to set temporary path

export MAVEN\_HOME=/opt/apache-maven-3.6.3

export PATH=$PATH:${MAVEN\_HOME}/bin

mvn -version

**To set the permanent path in environment variables:**

create a file in

etc/profile.d/maven.sh

command :

vi etc/profile.d/maven.sh

copy the following and save and exit. To exit :wq! and source the file

export MAVEN\_HOME=/opt/apache-maven-3.6.3

export PATH=$PATH:${MAVEN\_HOME}/bin

source etc/profile.d/maven.sh

check the maven version

mvn -version

**Now install jenkins in RHEL:**

use the following URL <https://wiki.jenkins.io/display/JENKINS/Installing+Jenkins+on+Red+Hat+distributions>

**Installation**

Installation of a weekly version

Add the Jenkins repository to the yum repos, and install Jenkins from here.

sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins.io/redhat/jenkins.repo

sudo rpm --import http://pkg.jenkins.io/redhat/jenkins.io.key

sudo yum install jenkins -y

Installation of an LTS version

There is also a LTS YUM repository for the LTS Release Line

sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins.io/redhat-stable/jenkins.repo

sudo rpm --import http://pkg.jenkins.io/redhat-stable/jenkins.io.key

sudo yum install jenkins

**To Check the status of jenkins:**

service jenkins status

service jenkins start

**Allow the port 8080 in Server**:

Go to security groups --> security group ID --> edit inbound rules --> Add rule --> add 8080 and IP range as 0.0.0.0/0 to allow all

got to browser and it the server ip and port no. (8080)

you will see the jenkins home page

require the password copy the location and with cat command get the password and paste it.

continue and install suggested plugins.