Installing and setting up of Jenkins

* Launch an ec2 instance
* Log into the instance
* Install Java in the server

Yum install java-1.8.0

* Set environmental variable for java under .bash\_profile file

JAVA\_HOME=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.252.b09-2.51.amzn1.x86\_64

PATH=$PATH:$JAVA\_HOME:$HOME/bin

* Exit and enter into the server to take its effect
* Update the installation package ( yum update)
* Download the repo from the internet
* Install Jenkins ( yum install Jenkins)
* Once the Jenkins is installed start the service
* Allow the firewall for port 8080 in aws
* Copy the Jenkins password from /var/lib/jenkins/secrets/initialAdminPassword
* Select suggested or customize the plugins
* Once you are in the Home page of Jenkins change the password by clicking on admin and configure and change the password

Configuring and creating jobs under jenkins

* Click on Manage Jenkins> Global tool configuration, click on Add JDK and copy $JAVA\_HOME path and paste it on JAVA\_HOME section and also give name as JAVA\_HOME
* Install plugins which are required
* Download and untar the maven. Set environmental variable of maven
* Search and Install Maven plugins and also set up the environmental variable under Global tool configuration
* Install publish over ssh plugin
* Go to Configure System and add dockerhost server under publish over ssh
* Meanwhile set PasswordAuthentication to yes under /etc/ssh/sshd\_config and reload the service.
* Create a new job

I am going to give the access to the server so that you can check rest of the configuration, if you have any doubts or clarification please reach out to me for the clarification.