Jenkins Install and Configure

**NOTE: BEFORE WE INSTALL JENKINS, FIRST WE NEED TO INSTALL JAVA (JDK and JRE) INTO SYSTEM.**

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| First update all the packages on ec2-user Instance | sudo yum update |
| Check java is installed or not | java -version  A screenshot of a cell phone  Description automatically generated  It means we need to install java on ec2 than we can install Jenkins |
| To install Java | sudo yum install java-1.8.0 (or latest version number) |
| To select java from multiple versions | Sudo /user/sbin/alternatives –config java  Sudo update-alternatives --config java |
| To download latest version of Jenkins | sudo wget -O /etc/yum.repos.d/jenkins.repo <http://pkg.jenkins-ci.org/redhat/jenkins.repo> |
| Import a key file from Jenkins-CI to enable installation from the package | sudo rpm --import <http://pkg.jenkins-ci.org/redhat/jenkins-ci.org.key> |
| Install Jenkins | sudo yum install Jenkins |
| Start Jenkins Start | sudo service jenkins start |
| To connect and open Jenkins console | Public ip of ec2 : 8080 |
| Once we reach to the Jenkins console, we need to give initial admin password | sudo su -  cd /var/lib/jenkins/secrets/  cat initialAdminPassword  Copy that password and pest it on Jenkins console |
| Once log in | Select suggested plugins |
| Follow the link for more info | <https://www.youtube.com/watch?v=jmm8DsosBqw>  <https://www.youtube.com/watch?v=AXlN-f6Uk64&list=PLzvRQMJ9HDiSaisKr7OnM4Fl7JXCDDcmt&index=2> |
| Install Git on ec2-Instance | sudo yum install git |
| Add Git Plugins | Go to Manage Jenkins  Go to Manage Plugins  Click on Available and Search Git Plugin  Install [Git plugin](https://plugins.jenkins.io/git) |

Set Environment Variable

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| First check [Credentials Binding Plugin](https://plugins.jenkins.io/credentials-binding) has installed or not | If not installed  Go to Manage Jenkins  Go to Manage Plugins  Click on [Credentials Binding Plugin](https://plugins.jenkins.io/credentials-binding) and install it |
| To Setup Credentials  Use to save all Credentials store | Go to Credentials (Left side with key symbols)  Click on Jenkins  Go to Global credentials  Click on add Credentials (Left side with key symbol)  Give the Username  Password  ID  Description  Click OK |
| To set environment variables to the Jenkins Java, Maven, Git | Go to Manage Jenkins  Click on Global Tool Configuration  For Java,  Click on Add JDK  A screenshot of a social media post  Description automatically generated  For Maven,  Click on Add Maven  A screenshot of a cell phone  Description automatically generated  For Git,  Click on Add Git  A screenshot of a cell phone  Description automatically generated |
| Configure on New Job | Create a New Job  Go to Configuration  To add Git Project  Select “Git” in Source Code Management  Give the link of Git Repository  A screenshot of a cell phone  Description automatically generated |
| To Build Maven Project | Open the Job Configuration  Go to Build Section  Click on Add build step  Select “Invoke top-level Maven targets”  Select Maven Version  Give the path of POM.xml into the POM Field  A screenshot of a social media post  Description automatically generated |