Jenkins Installation

**Install Jenkins on AWS EC2**

Jenkins is a self-contained Java-based program, ready to run out-of-the-box, with packages for Windows, Mac OS X and other Unix-like operating systems. As an extensible automation server, Jenkins can be used as a simple CI server or turned into the continuous delivery hub for any project.

**Prerequisites**

EC2 Instance

With Internet Access

Security Group with Port 8080 open for internet

Java v1.8.x

**Install Java**

We will be using open java for our demo, Get the latest version from <http://openjdk.java.net/install/>

**yum install java-1.8\***

#yum -y install java-1.8.0-openjdk-devel

Confirm Java Version and set the java home

**java -version**

**To find where our java is located**

**find /usr/lib/jvm/java-1.8\* | head -n 3**

**To Set java homepath**

**Vi .bash\_profile**

**JAVA\_HOME=/usr/lib/jvm/java-1.8.0-openjdk-<Java version which seen in the above output>**

export JAVA\_HOME

**PATH=$PATH:$JAVA\_HOME:**

# To set it permanently update your .bash\_profile

**vi ~/.bash\_profile**

*The output should be something like this,*

[root@~]# java -version

openjdk version "1.8.0\_151"

OpenJDK Runtime Environment (build 1.8.0\_151-b12)

OpenJDK 64-Bit Server VM (build 25.151-b12, mixed mode)

**Install Jenkins**

You can install jenkins using the rpm or by setting up the repo. We will set up the repo so that we can update it easily in the future.

Get the latest version of jenkins from <https://pkg.jenkins.io/redhat-stable/> and install

**yum -y install wget**

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

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

**yum -y install jenkins**

Start Jenkins

# Start jenkins service

**service jenkins start**

# Setup Jenkins to start at boot,

chkconfig jenkins on

Accessing Jenkins

By default jenkins runs at port 8080, You can access jenkins at

<http://YOUR-SERVER-PUBLIC-IP:8080>

**Configure Jenkins**

The default Username is admin

Grab the default password

**Password Location:/var/lib/jenkins/secrets/initialAdminPassword**

Skip Plugin Installation; *We can do it later*

**Change admin password**

Admin > Configure > Password

**Configure java path**

Manage Jenkins > Global Tool Configuration > JDK

**Create another admin user id**

Test Jenkins Jobs

Create “new item”

Enter an item name – My-First-Project

Chose Freestyle project

Under the Build section Execute shell: **echo "Welcome to Jenkins Demo"**

Save your job

Build job

Check "console output"