**Install Jenkins on AWS EC2**

### Prerequisites

1. EC2 Instance
   * With Internet Access
   * Security Group with Port 8080 open for internet
2. Java v1.8.x

## Install Java

1. We will be using open java for our demo, Get the latest version from <http://openjdk.java.net/install/>
2. yum install java-1.8\*

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

1. Confirm Java Version and set the java home
2. java -version
3. find /usr/lib/jvm/java-1.8\* | head -n 3
4. JAVA\_HOME=/usr/lib/jvm/java-1.8.0-openjdk-<Java version which seen in the above output>
5. export JAVA\_HOME
6. PATH=$PATH:$JAVA\_HOME
7. # 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.

1. Get the latest version of jenkins from <https://pkg.jenkins.io/redhat-stable/> and install
2. yum -y install wget
3. sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
4. 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

1. Create “new item”
2. Enter an item name – My-First-Project
   * Chose Freestyle project
3. Under the Build section Execute shell: echo "Welcome to Jenkins Demo"
4. Save your job
5. Build job
6. Check "console output"