**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**

1. EC2 Instance
   * With Internet Access
   * Security Group with Port 8080 open for internet
2. Java 11 should be installed

**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. sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
2. sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
3. amazon-linux-extras install epel
4. amazon-linux-extras install java-openjdk11
5. #on RedHat/CentOs
6. #yum install epel-release # repository that provides 'daemonize'
7. #yum install java-11-openjdk-devel

#yum 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"