# **Install Jenkins on AWS EC2**

<https://www.youtube.com/watch?v=M32O4Yv0ANc&list=PLxzKY3wu0_FJdJd3IKdiM4Om1hGo2Hsdt&index=8>

https://github.com/miztiik/DevOps-Demos/tree/master/setup-jenkins

**Prerequisites**

1. EC2 RHEL 7.x Instance
   * With Internet Access
   * Security Group with Port 8080 open for internet
2. Java v1.8.x

## Install Java

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

\*ROOT USER\*

sudo su -

yum install java-1.8\*

yum -y install java-1.8.0-openjdk

### Confirm Java Version

**Lets install java:**

java -version

**set the java home:**

ls

vi .bash\_profile

|  |
| --- |
| # .bash\_profile  # Get the aliases and functions  if [ -f ~/.bashrc ]; then  ~/. Bashrc  fi  # User specific environment and startup programs  JAVA\_HOME=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.161-0.b14.el7\_4.x86\_64  PATH=$PATH:$JAVA\_HOME/bin  export $PATH  ~  ~  :wq! |

echo $path

**nxt Take a new session login as ec2-user:**

sudo su –

echo $PATH

## **Install Jenkins**

You can install jenkins using the rpm or by setting up the repo. We will setup the repo so that we can update it easily in future. Get latest version of jenkins from <https://pkg.jenkins.io/redhat-stable/>

yum -y install wget

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

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

yum -y install jenkins

### Start Jenkins

systemctl start jenkins

systemctl enable jenkins

#### Accessing Jenkins

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

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

cat /var/lib/jenkins/secrets/initialAdminPassword

fe3ir2ii493bd923d3u9r2bd9

find / -name javac

#### 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

Name: Java

JAVA\_HOME: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.161-0.b14.el7\_4.x86\_64

**APPLY & SAVE**

* 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 Build section Execute shell : echo "Welcome to Jenkins Demo"
4. Save your job
5. Build job
6. Check "console output"