

Steps to follow to deploy Spring Application on AWS EC2 instance using Jenkins

Create EC2 instance

---Instance type->t2.micro

---platform - AWS Linux

Connect to EC2 Instance via cmd

--- ssh -i "deployKey.pem" ec2-user@ec2-3-80-118-219.compute-1.amazonaws.com

Install java

sudo amazon-linux-extras install java-openjdk11 -y
java -version

Install git

sudo yum install git

Install maven

sudo wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-apache-maven.repo -O /etc/yum.repos.d/epel-apache-maven.repo
sudo sed -i s/\\\$releasever/6/g /etc/yum.repos.d/epel-apache-maven.repo
sudo yum install -y apache-maven
mvn --version

Install docker

```
sudo yum install docker -y  
sudo service docker start  
sudo chmod 666 /var/run/docker.sock
```

Install Jenkins

```
sudo yum update -y  
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  
sudo yum upgrade
```

Create a job in Jenkins

1. select pipeline project.
2. Installing maven plugins -> Manage Jenkins -> System Configuration -> Install maven.
3. Setting java path. -> Manage Jenkins -> Global Tool Configuration -> Define the configuration.
4. Setting maven path. -> Manage Jenkins -> Global Tool Configuration -> Define the configuration.

5. Build a pipeline for git integration.

```
pipeline {
    agent any

    stages {
        stage('Checkout') {
            steps {
                checkout scmGit(branches: [[name: '*/master']],
extensions: [], userRemoteConfigs: [[credentialsId: 'c8430932-7b9c-4fa6-8799-
bce2abbbb142f', url: 'https://github.com/jyoti-123-khullar/SportyShoesProject03.git']]
            }
        }
        stage('Build') {
            steps {
                git credentialsId: 'c8430932-7b9c-4fa6-8799-
bce2abbbb142f', url: 'https://github.com/jyoti-123-khullar/SportyShoesProject03.git'
                sh 'mvn -B -SportyShoesApplication clean package'
            }
        }
    }
}
```

6. Write pipeline for execution of spring project.

7. Check console and logs for execution result.