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-bce2abbb142f', url:
'https://github.com/deepanshu999/EmployeeManagementSystem.
git']])
                }
            }
            stage('Build') {
                steps {
                    git credentialsId: 'c8430932-7b9c-4fa6-8799-
bce2abbb142f', url:
'https://github.com/deepanshu999/EmployeeManagementSystem.
git'
                    sh 'mvn -B -EmployeeManagementSystem clean
package'

                }
            }
        }
}
```

6. Write pipeline for execution of spring project.

7. Check console and logs for execution result.