**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 -EmployeeManagementSystemApplication clean package' |
|  |  |
|  | } |
|  | } |
|  | } |
|  | } |

1. Write pipeline for execution of spring project.
2. Check console and logs for execution result.