```
#!/bin/bash
sudo yum update -y
# Install Java
sudo amazon-linux-extras install -y epel
sudo amazon-linux-extras install -y java-openjdk17
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import <a href="https://pkg.jenkins.io/redhat-stable/jenkins.io.key">https://pkg.jenkins.io/redhat-stable/jenkins.io.key</a>
sudo yum install -y epel-release
sudo yum install -y java-17-openjdk-devel
sudo /usr/sbin/alternatives --config java <<< '1'
# Install Maven
sudo wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-apache-
<u>maven.repo</u> -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
# Install git
sudo yum install git -y
# Install Jenkins
sudo yum install -y jenkins
sudo systemctl start jenkins
```

Install jenkins

sudo systemctl enable jenkins

sudo java -version

sudo mvn --version

sudo git version

install docker

#!/bin/bash

sudo yum update -y

sudo yum install -y docker git

sudo systemctl start docker

sudo systemctl enable docker

sudo usermod -aG docker ec2-user

sudo docker version

To get jenkins password

Dockerfile

FROM node:16.14.0-alpine AS build

2

```
RUN npm i -g @angular/cli@13.1.0

WORKDIR /app

COPY package.json package-lock.json ./

RUN npm install

COPY . .

RUN ng build --prod

FROM nginx

COPY --from=build /app/dist/myapp/ /usr/share/nginx/html/
```

Jenkinsfile

```
node {
    stage('Initialize')
    {
        def dockerHome = tool 'mydocker'
        env.PATH = "${dockerHome}/bin:${env.PATH}"
    }
    stage('Clone repository') {
        git credentialsId: 'git', branch:'main', url: 'https://github.com/chirag627/assisted-4-phase-5.git'
    }
    stage('Build image') {
```

```
dockerImage = docker.build("chirag627/myangularapp:latest")
}
stage('Push image') {
    withDockerRegistry([ credentialsId: "f5c22d86-f591-40e0-b461-c38c715491a2", url: "" ]) {
    dockerImage.push()
    }
}
```

Init docker Swarm on master

docker swarm init --advertise-addr <private-ip-of-master>

To check the status of workers

docker node Is

To create replicas

docker service create --name myapp1 --replicas 5 -p 80:80 chirag627/myangularapp

To check which replica running on which instance

docker service ps myapp1