Deploying a project through Jenkins of web application server in tomcat

Step : Creating 2 instance

- Creating a Ec2 instance for Jenkins
- Creating a Ec2 instance for Tomcat
- Connect tomcat to Jenkins and deploy

Ec2 of Jenkins

Enable 8080 port for accessing Jenkins inside of network in security group

Install java-17 and install maven(build) then install Jenkins

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

sudo yum install java-17 git -y

sudo yum install maven -y

sudo systemctl enable Jenkins

sudo systemctl start Jenkins

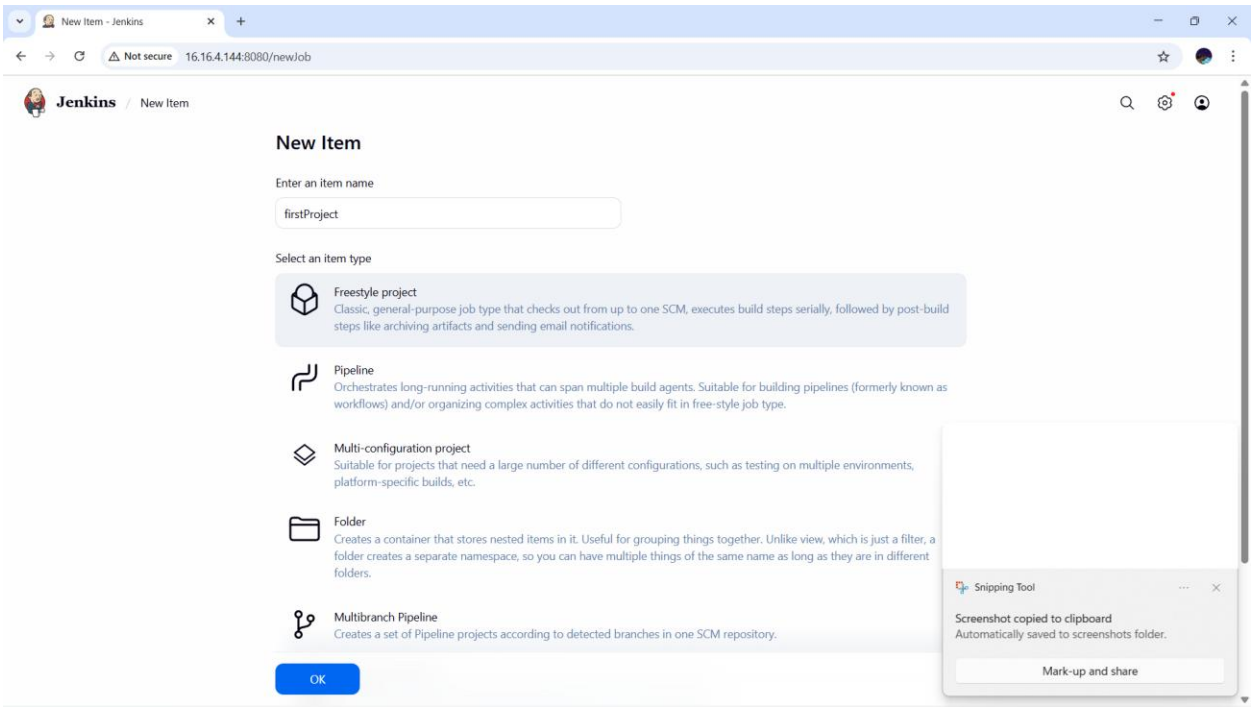
sudo systemctl status jenkins

]

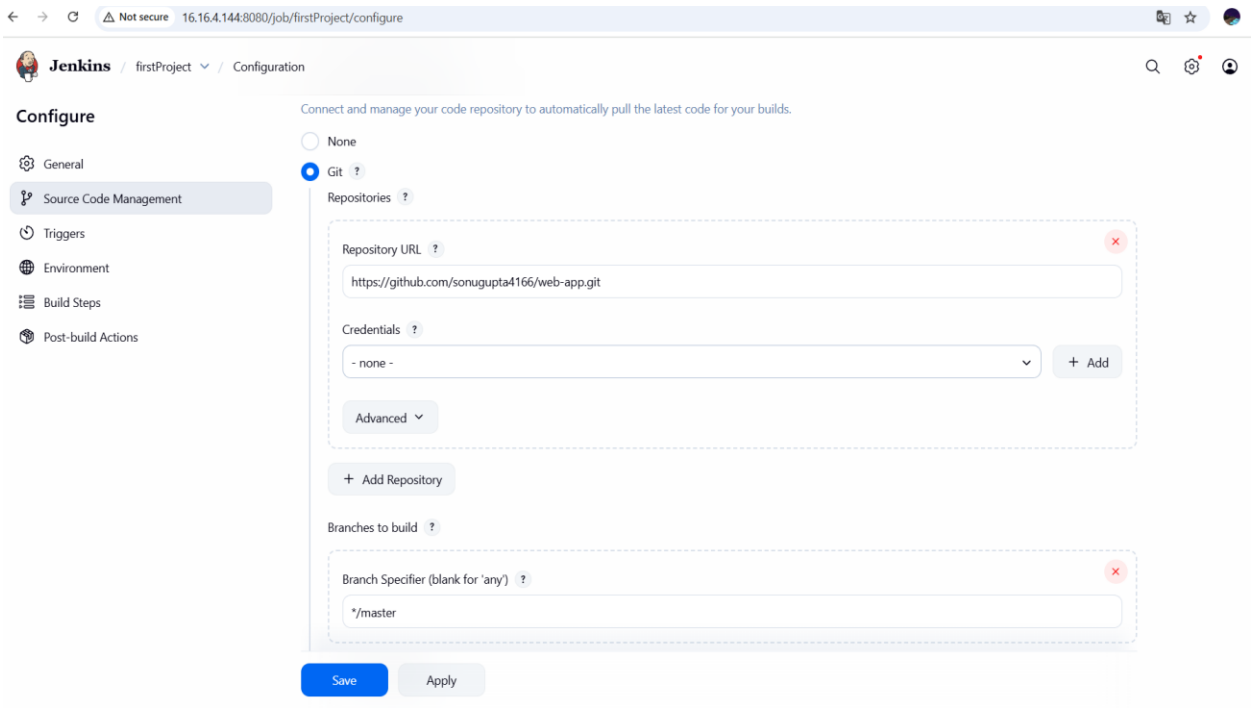
Enable 8080 port from anywhere

- Copy ip peste in browser with 8080 **(http//16.171.181.213:8080)**
- Password give for initial (**/var/lib/Jenkins/secrets/initialAdminPassword**)
- After giving initial password create **Username and password also Email**
- **Install pluging**
- Install pluging of build Maven
- Also install pluging Deploy Container

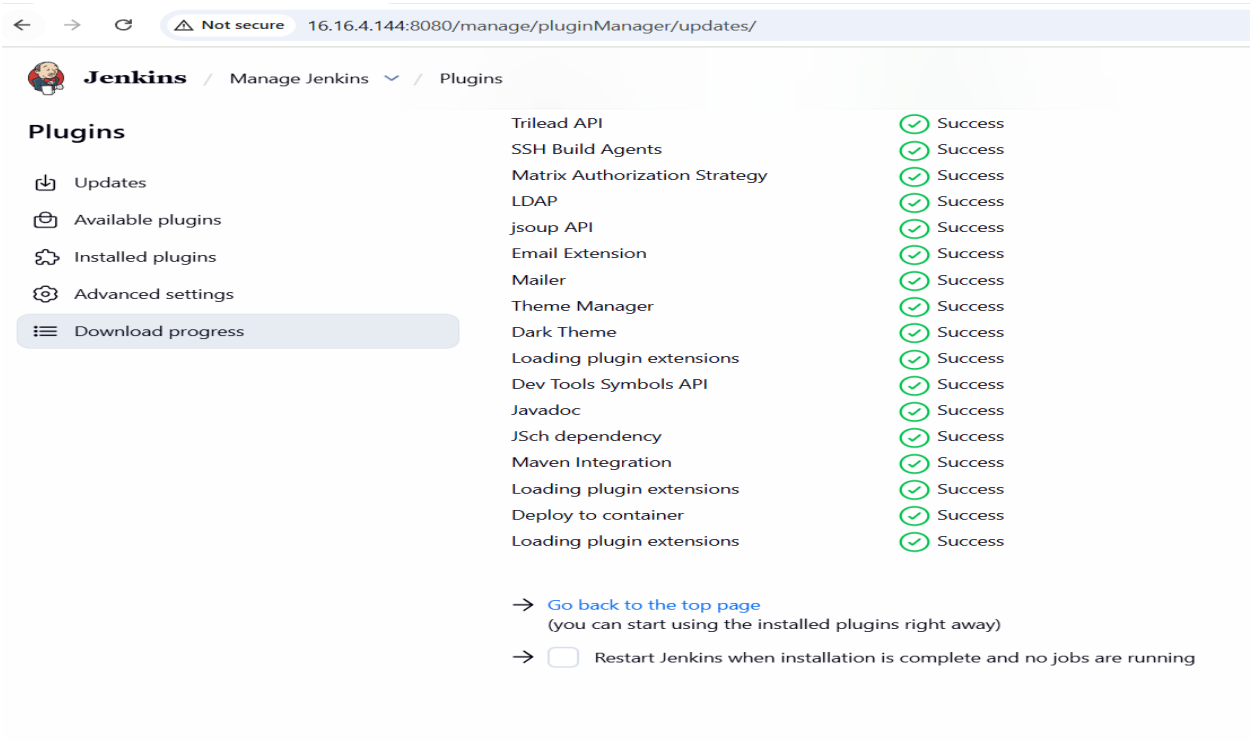
Create a free style project



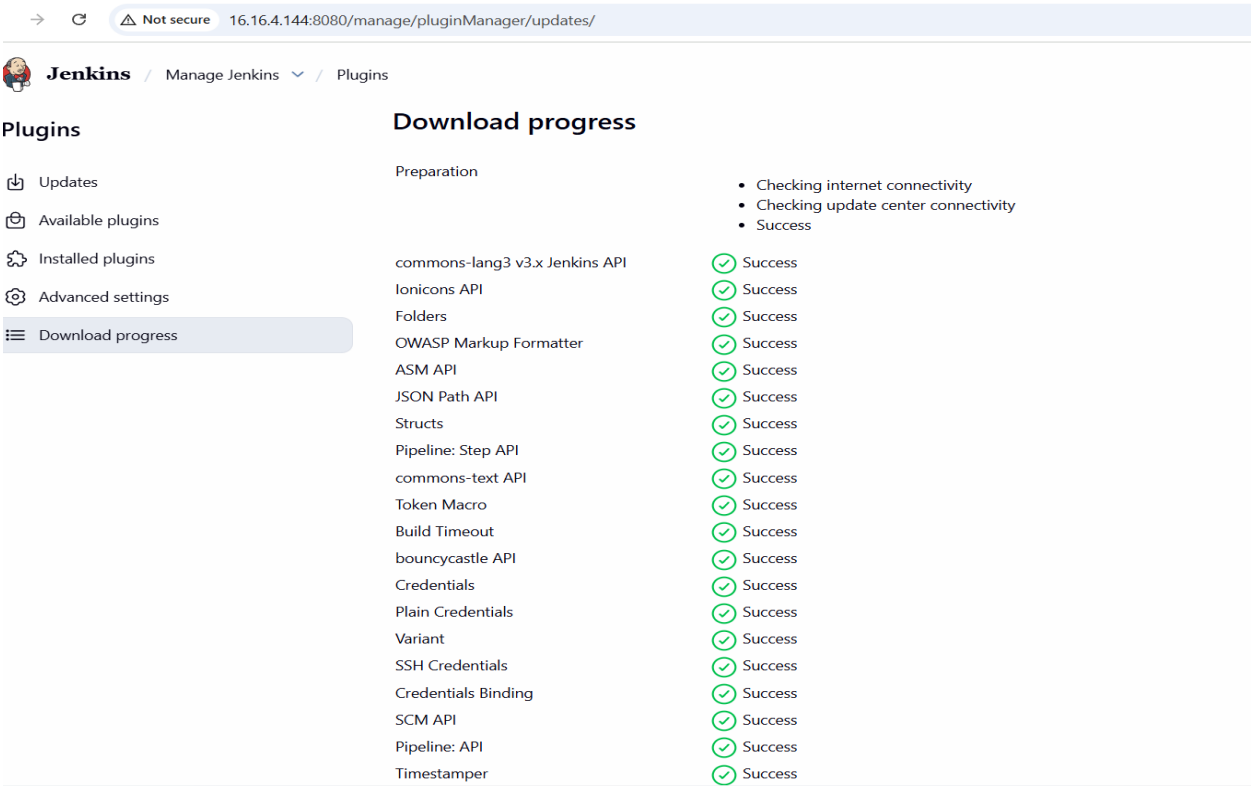
Add github repository in it



Install pluging of Deploy to Container

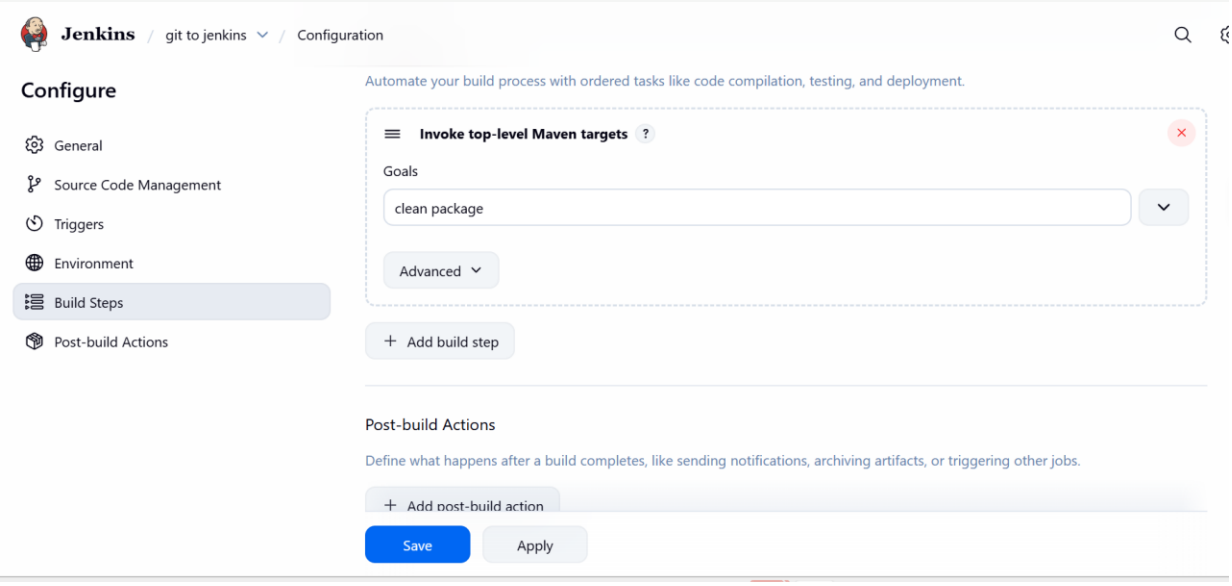


Install pluging of maven



Select Build step :Invoke top-level Maven targets

And fill the details



2 Ec2 for tomcat

Enable 8080 port for accessing Jenkins inside of network in security group

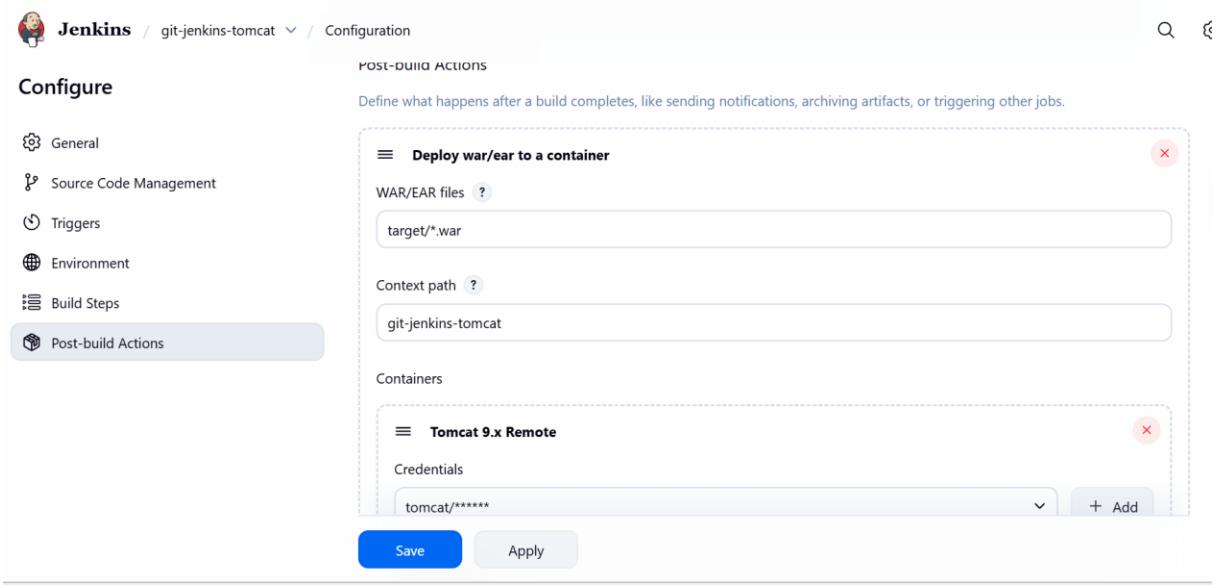
- Connect ec2 instance
- Download tomcat server
- [wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.112/bin/apache-tomcat-9.0.112.tar.gz

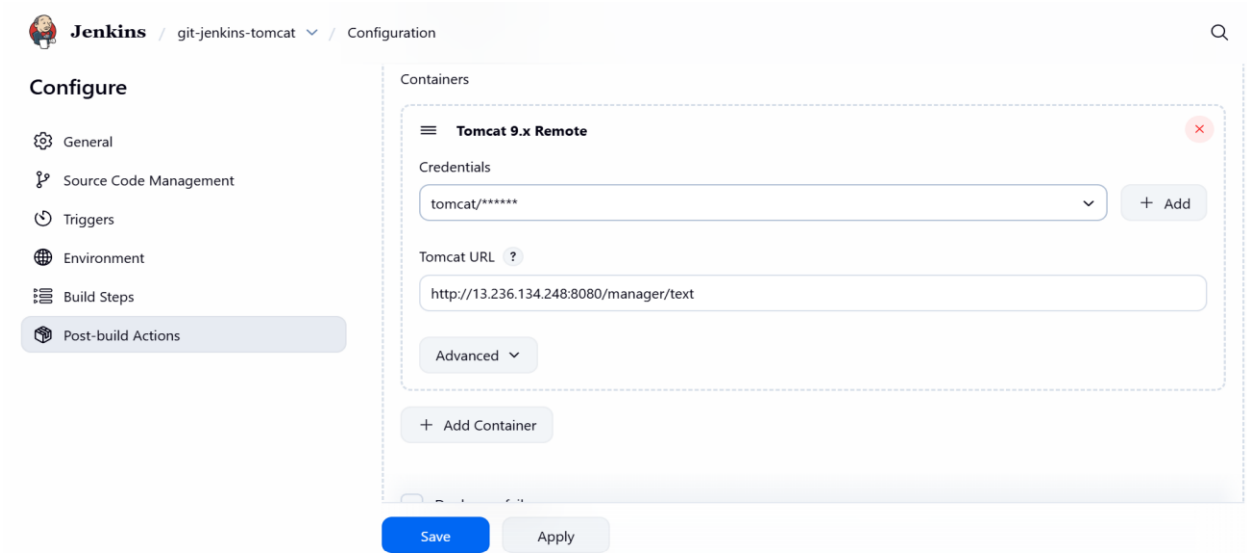
  Tar -zxvf apache-tomcat-9.0.112.tar.gz
  mv apache-tomcat-9.0.112.tar.gz tomcat
  sudo yum install locate
  cd tom
  cd bin
  bash startup.sh
  cd ..
  locate context.xml
  cd conf
  vi context.xml (# Edit value remove line 21 and 22 add our IP for instance)
  sudo updatedb
  cd

Edit role name
Edit manager-gui and manager script (for accessing file inside of server)
cd bin
bash startup.sh
username
password
sign in]

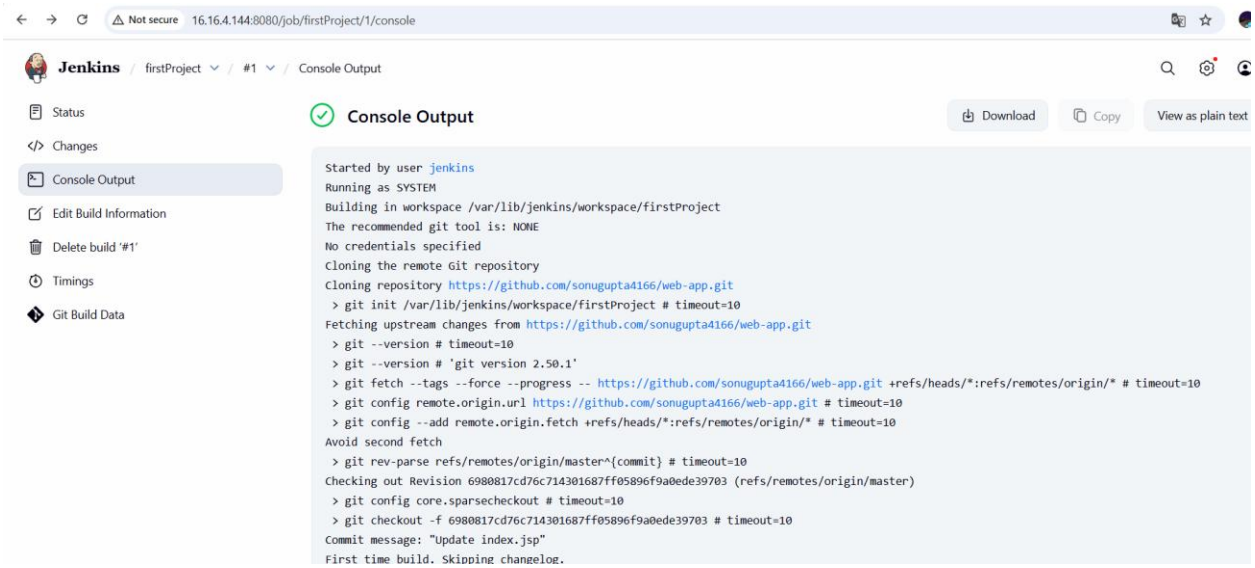
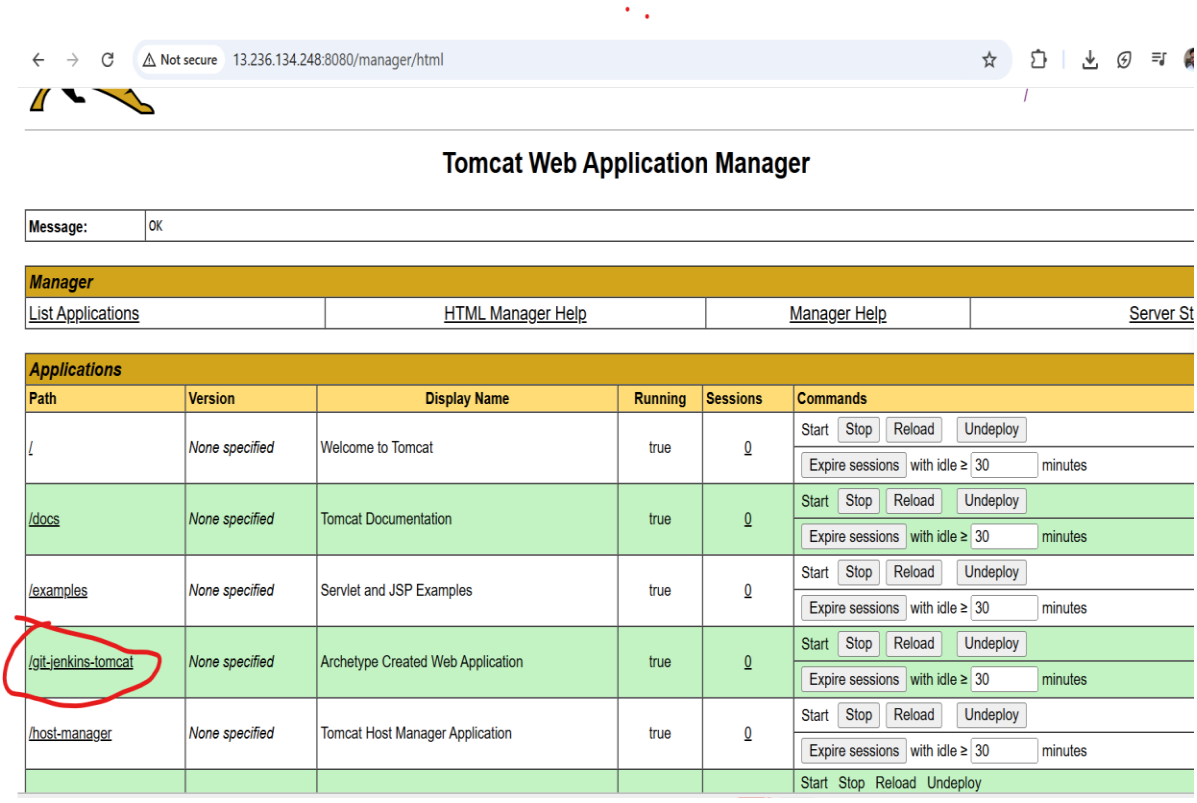
Add plugin deploy in container

Then select post build action





Then click on Build now



After deploy our web in Jenkins using Tomcat server