* CB FSD - Integration and Deployment

Day 8 : 25 July 2024

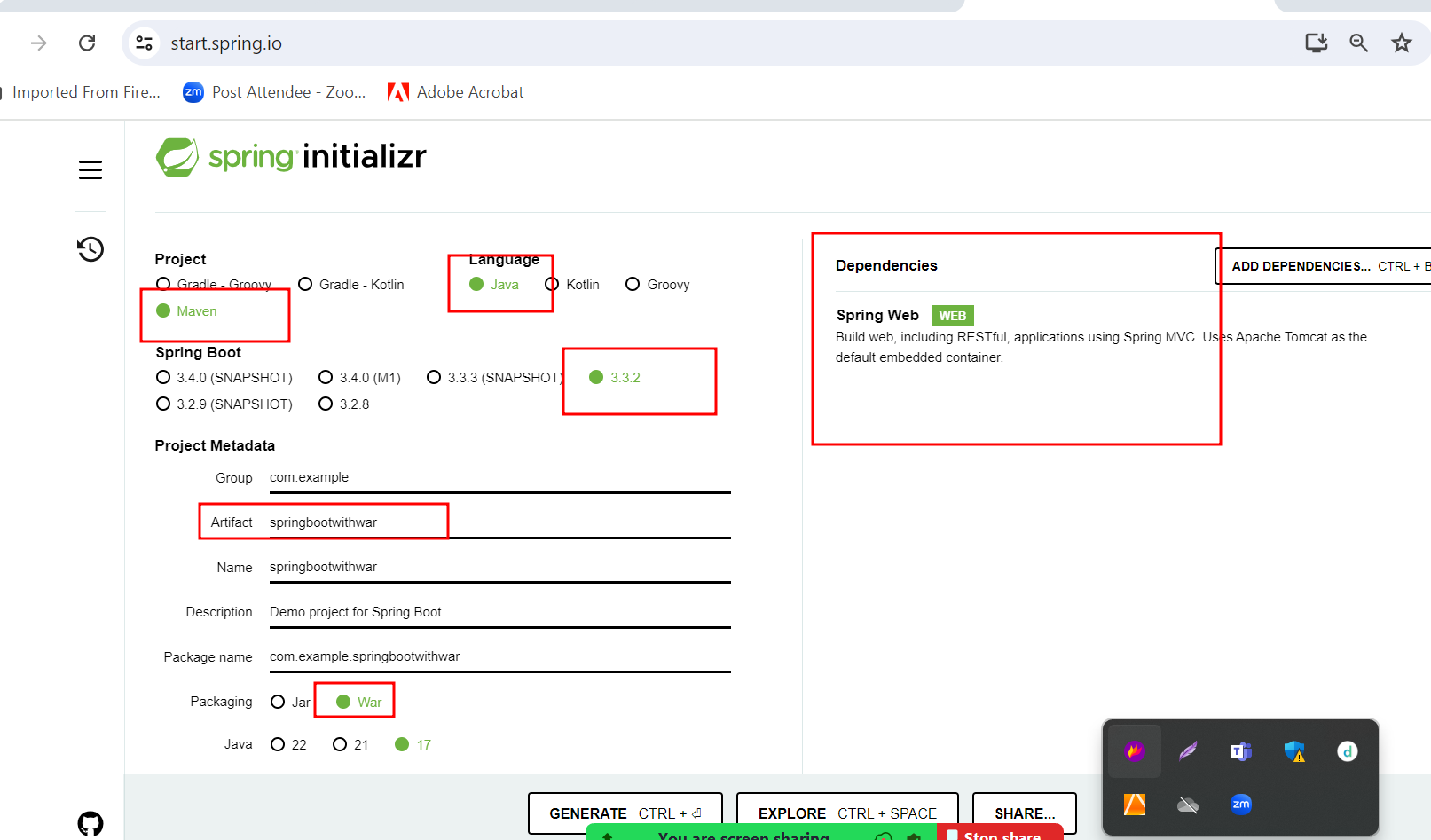
Jar, war and ear

Java archive : collection of .class and .java (generally .class)

Web Archive: collection of .class, .java(normal java classes as well as servlet), .html, .css, .xml, .jsp etc

Enterprise Archive : collection of .class, .java(normal java classes, servlet classes and ejb classes), .html, .css, .xml, .jsp etc

Creating spring boot project with war file and deploy this war file in external tomcat.



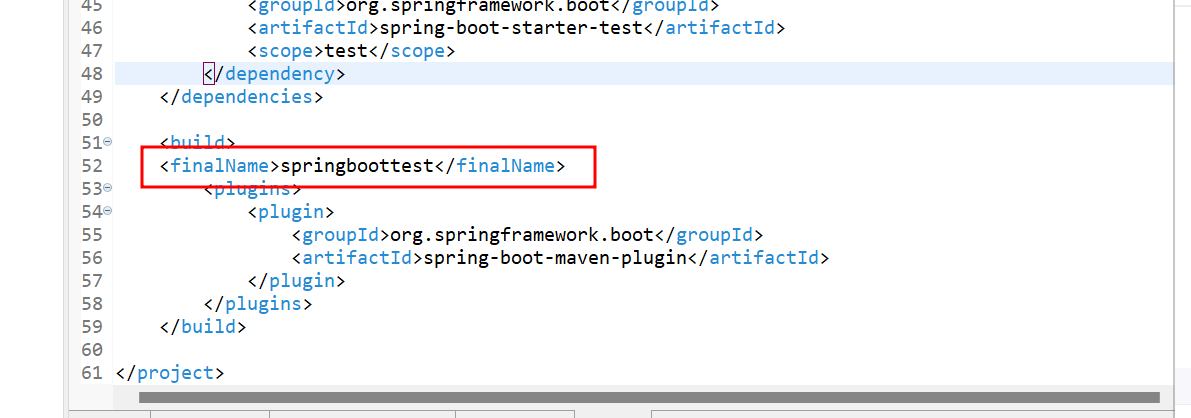
Spring boot internally provided tools ie mvnw

Like mvn we can use mvnw command to build the projects.

mvnw clean

mvnw package it generate war file inside target folder.

But if we need short name for the war file. Then we need to do some changes in pom.xml file.



After created the war file we need to start external tomcat server.

Open terminal or cmd inside tomcat bin folder

startup.bat window user

startup.sh non window user

shutdown.bat stop server

shutdown.sh stop server

if we want to see all application details we need to create user and assign the role.

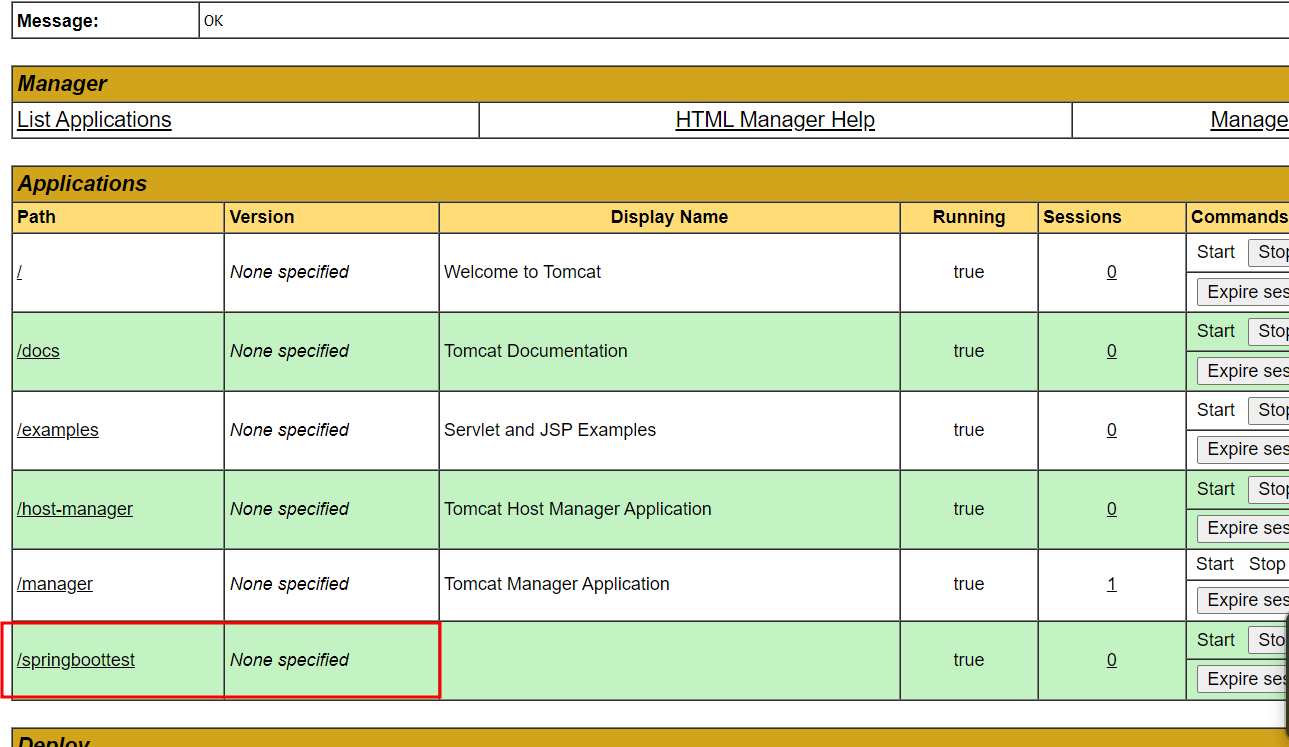
Please edit in tomcat-users.xml file part of conf folder.

Write below tag inside tomat-users.xml file

  <role rolename="manager-gui,manager-jmx,manager-status"/>

  <user username="tomcat" password="tomcat" roles="manager-gui,manager-script,manager-jmx,manager-status"/>

Once you login for manage app then you can copy and paste your spring boot war file inside a webapp folder part of tomcat home directory



Running Jenkin server using pre-installed or using war file.

Then open the command prompt in the location where the jenkins.war file present and run the command as

java -jar jenkins.war need 8080 port number must be free

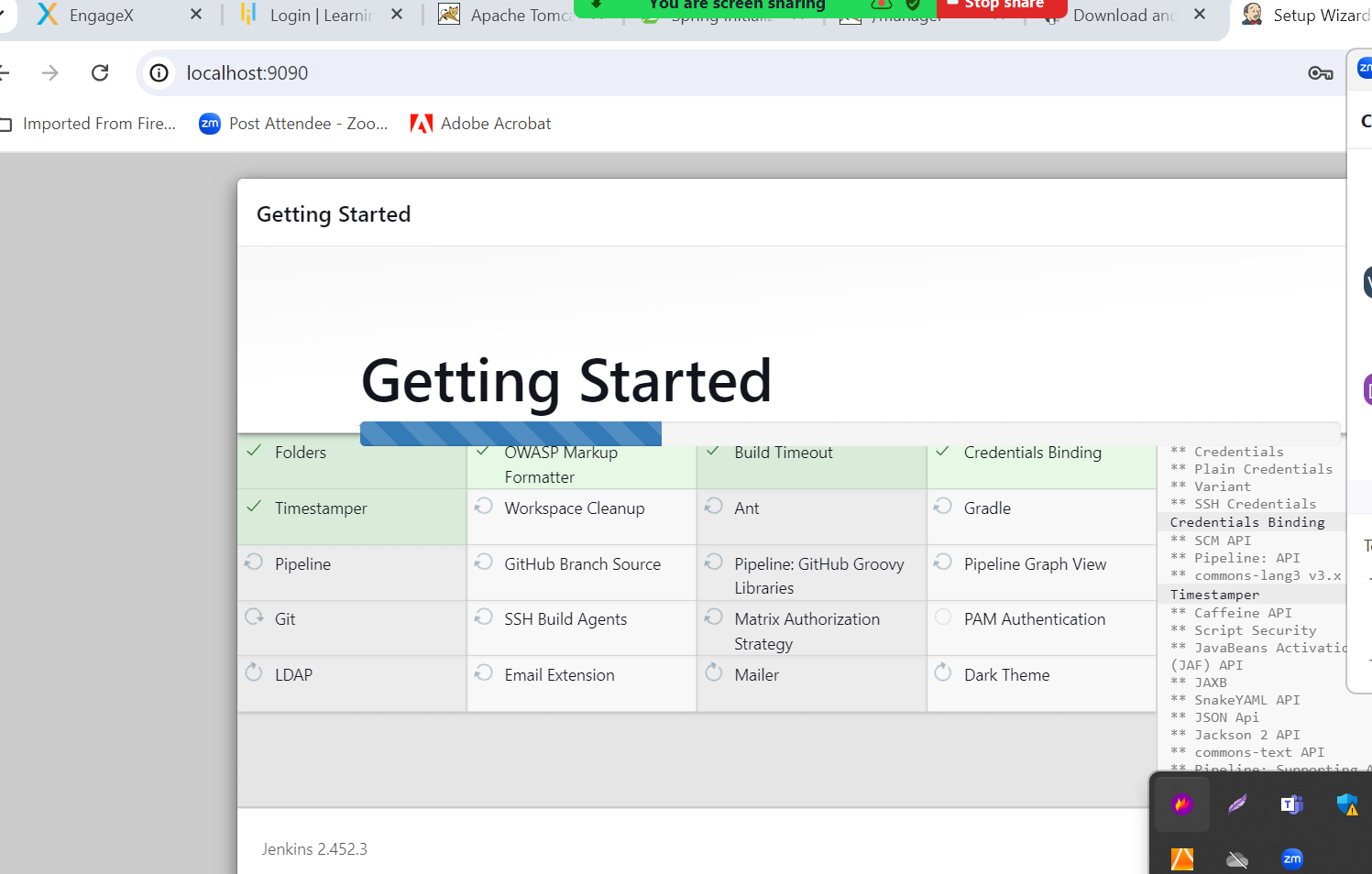
java -jar jenkins.war --httpPort=9090

running Jenkin server using different port number ie 9090.

Then open the URL as

<http://localhost:9090>

it will ask you password please verify password in terminal and copy/paste and installed suggested plugin.



Please push your spring boot with war file push to remote repository.

Inside a project folder which contains pom.xml file make as local repository.

**git init**

**git add .**

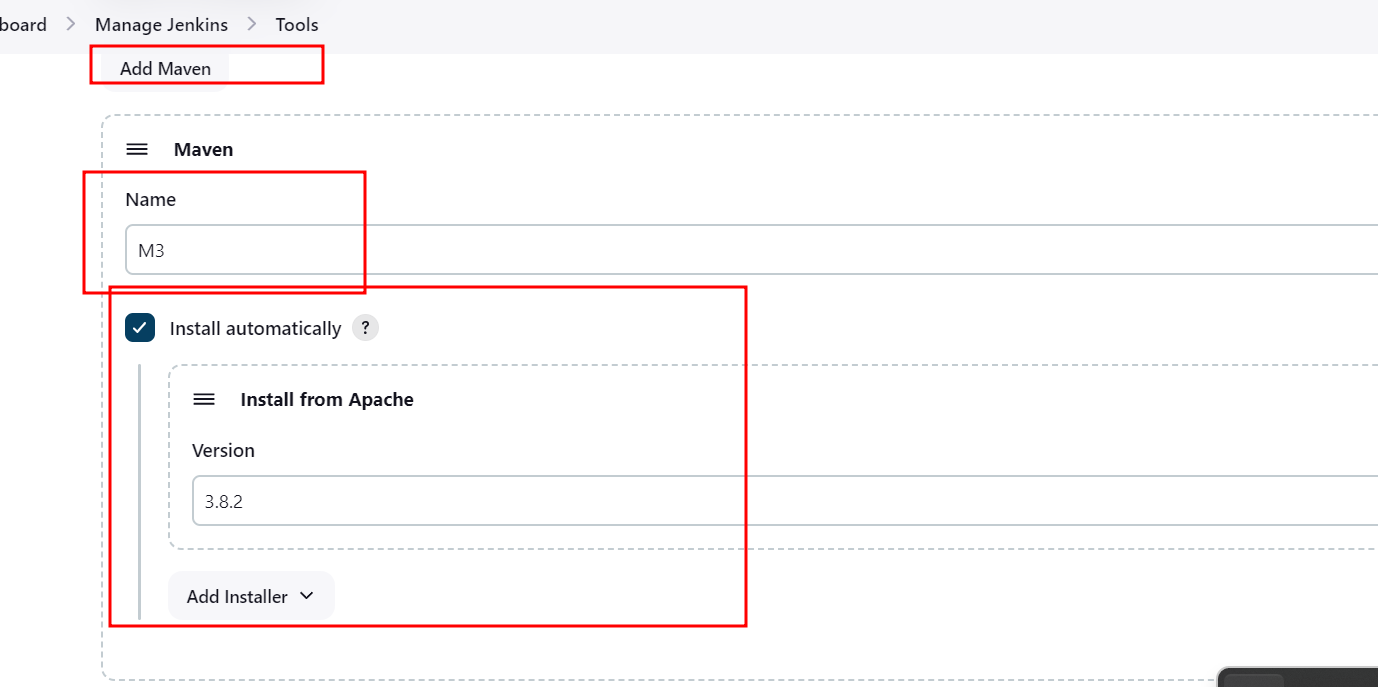
**git commit -m “initial commit “**

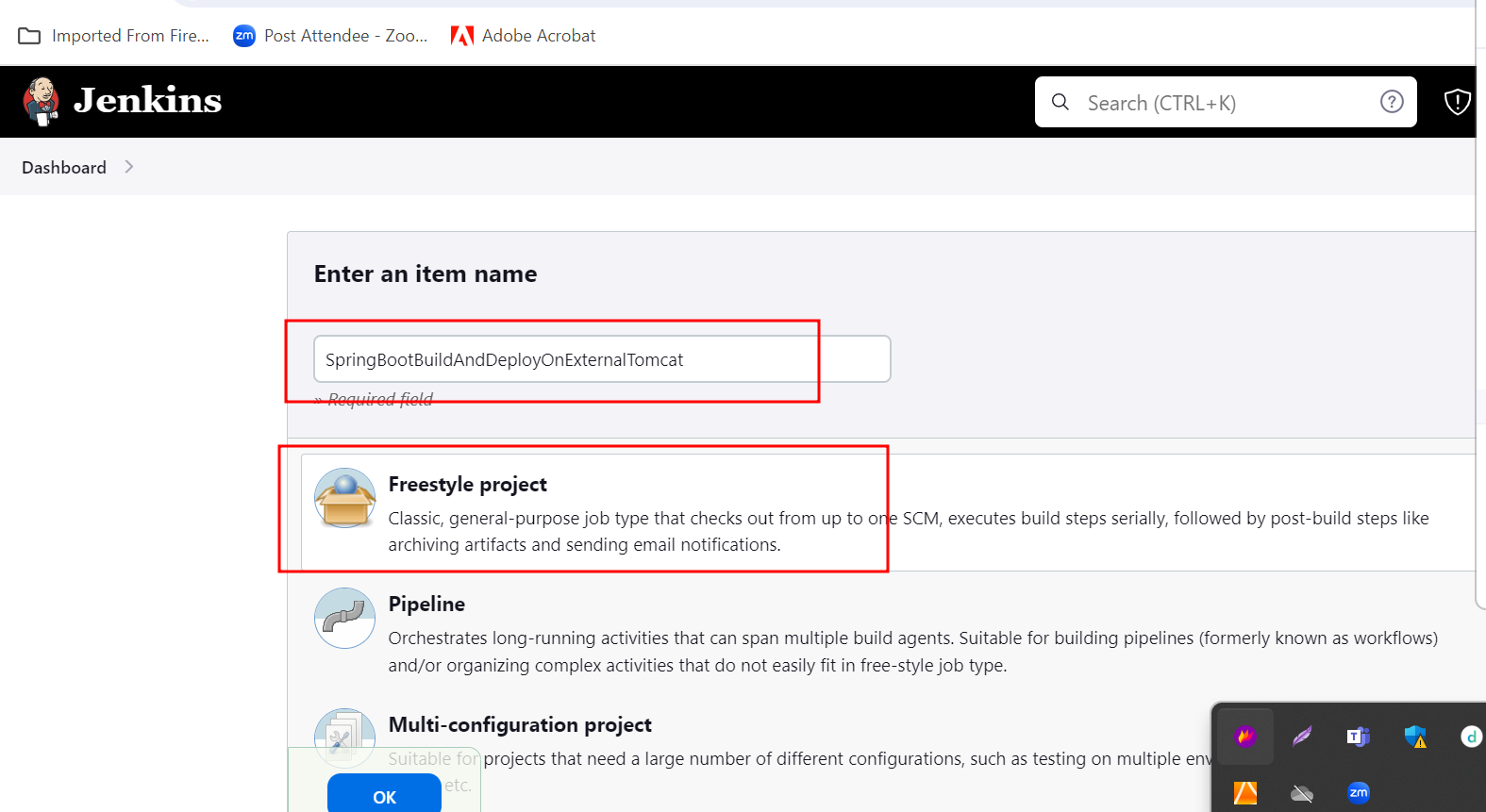
**git remote add origin https://github.com/Kaleakash/springbootjenkinwar.git**

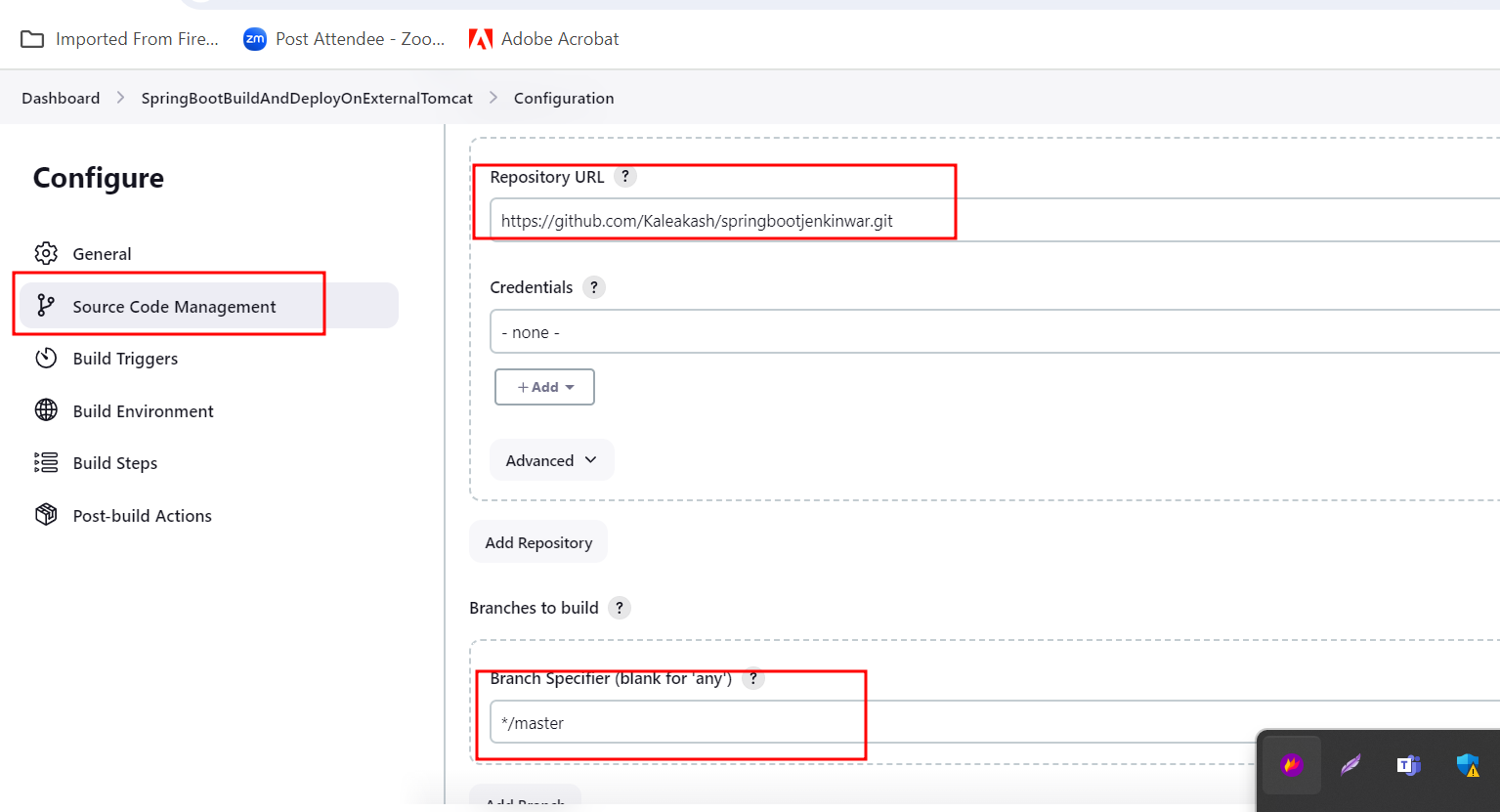
**git push -u origin HEAD**

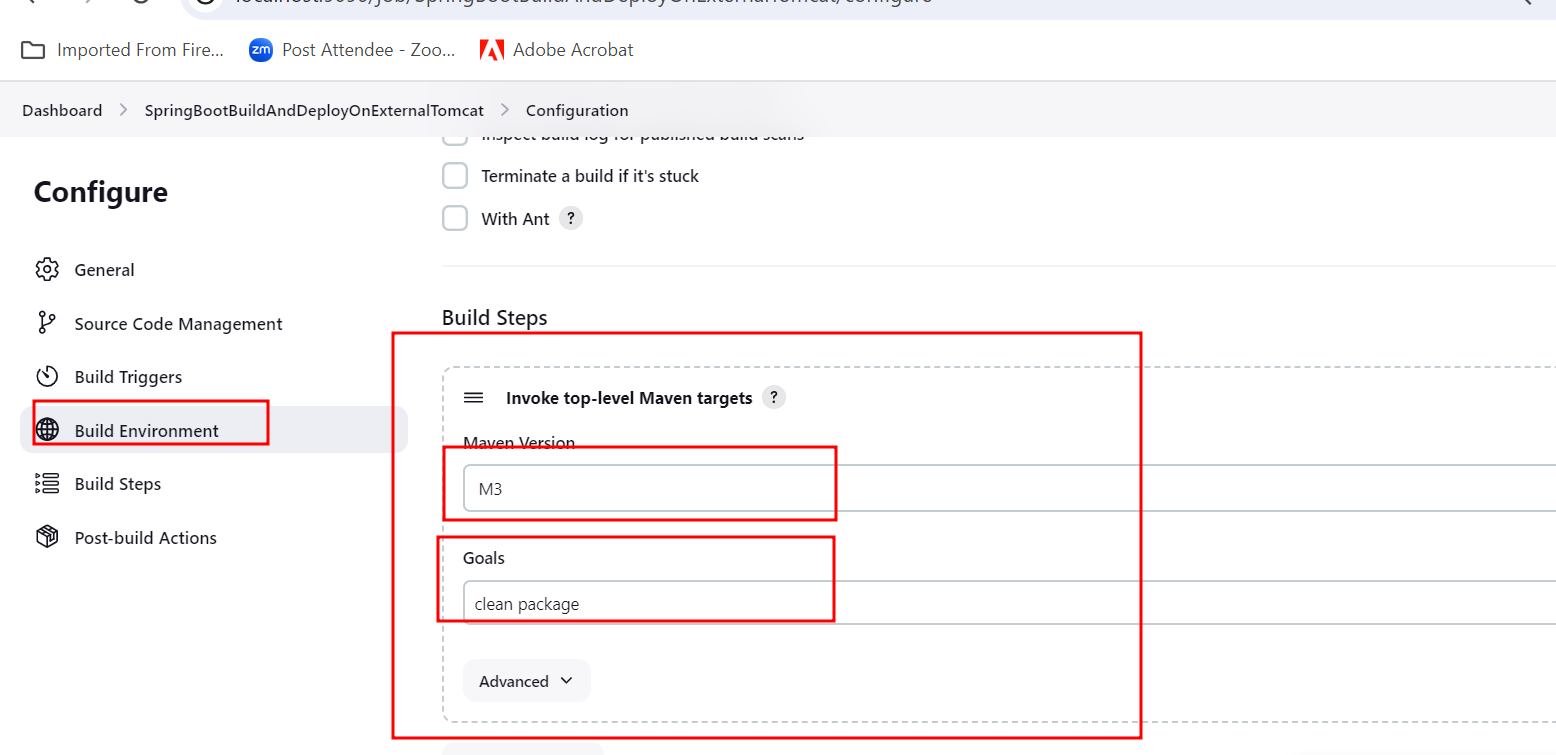
In Jenkin dashboard we need to add maven environment.

Configure maven

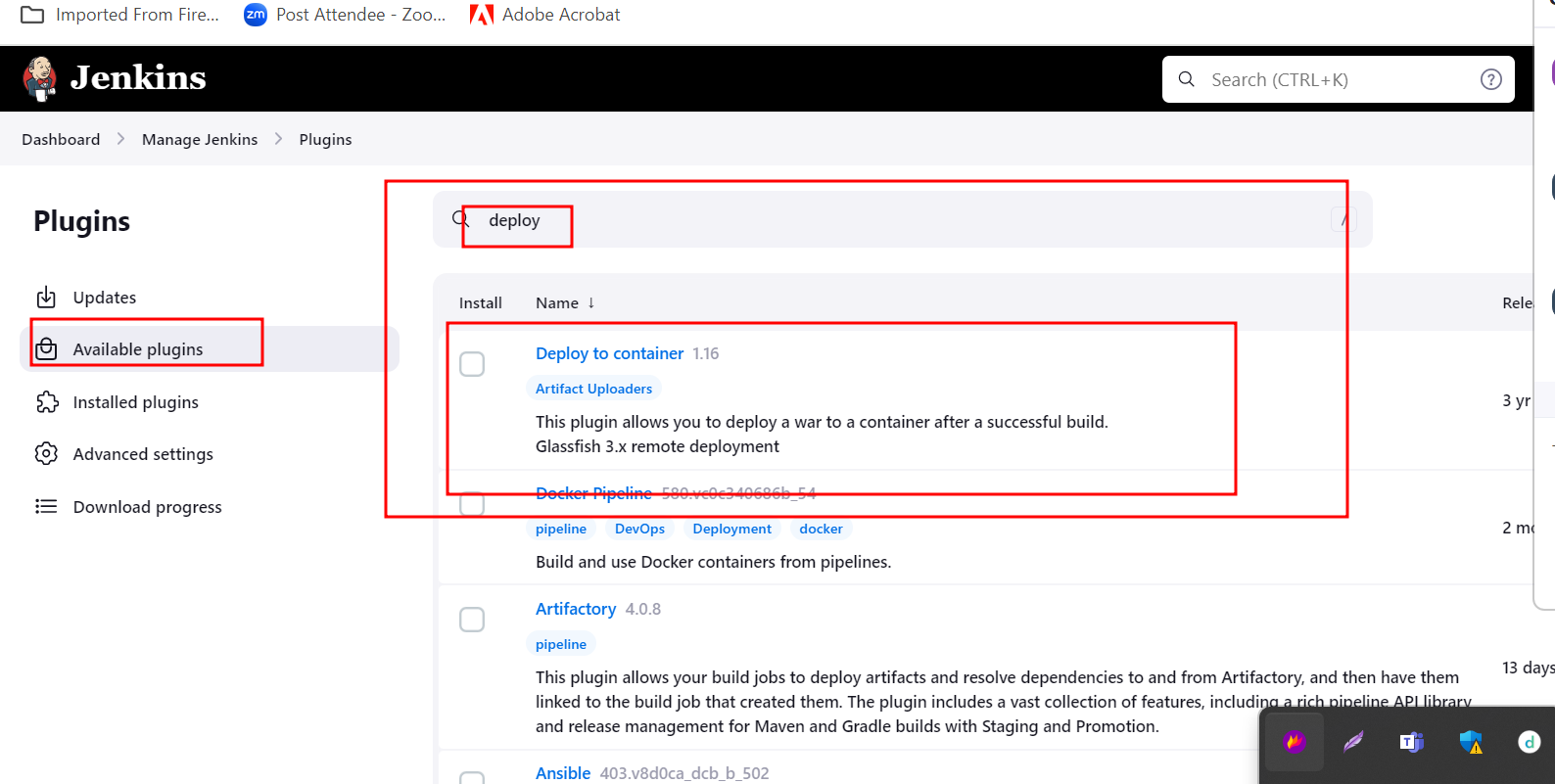




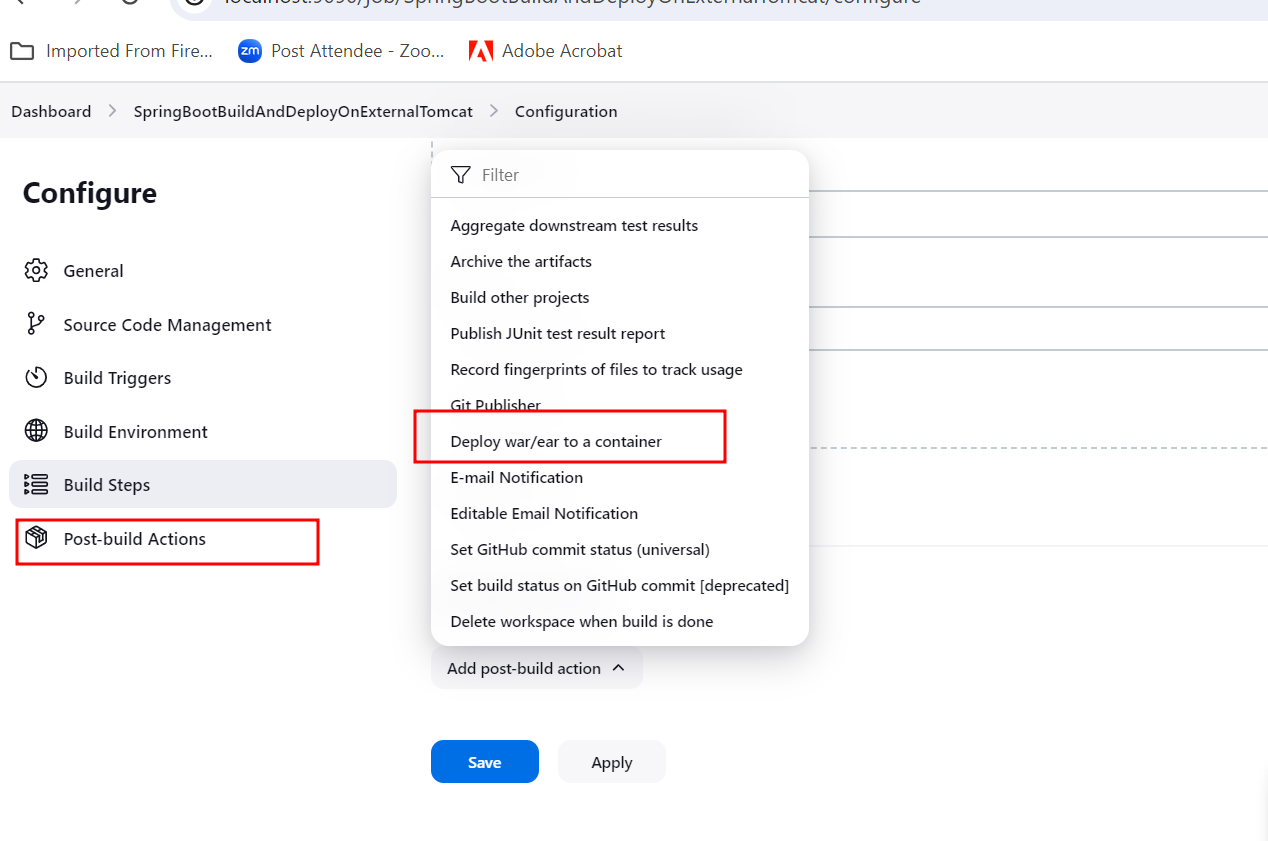


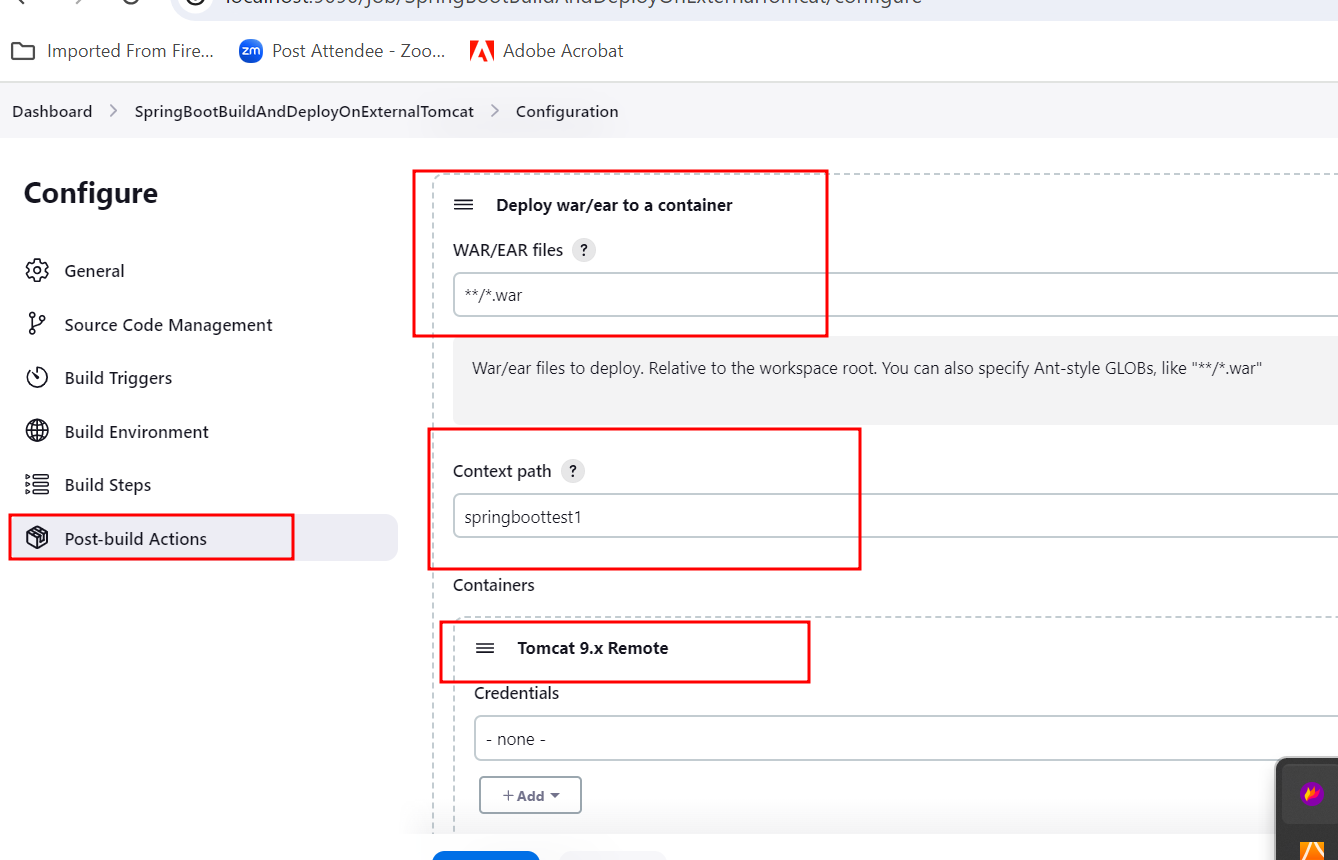


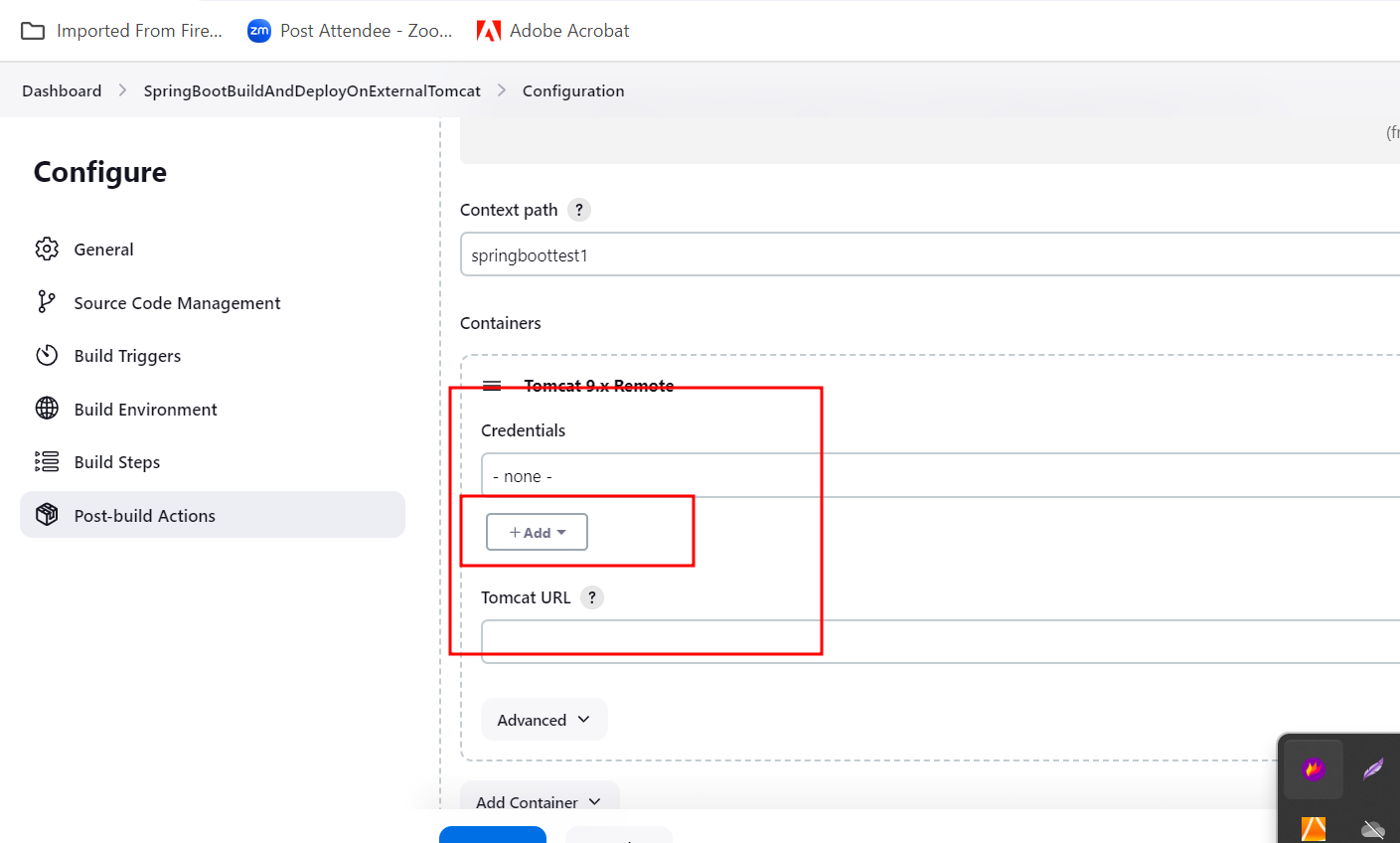
Now we need to download deployment plugin



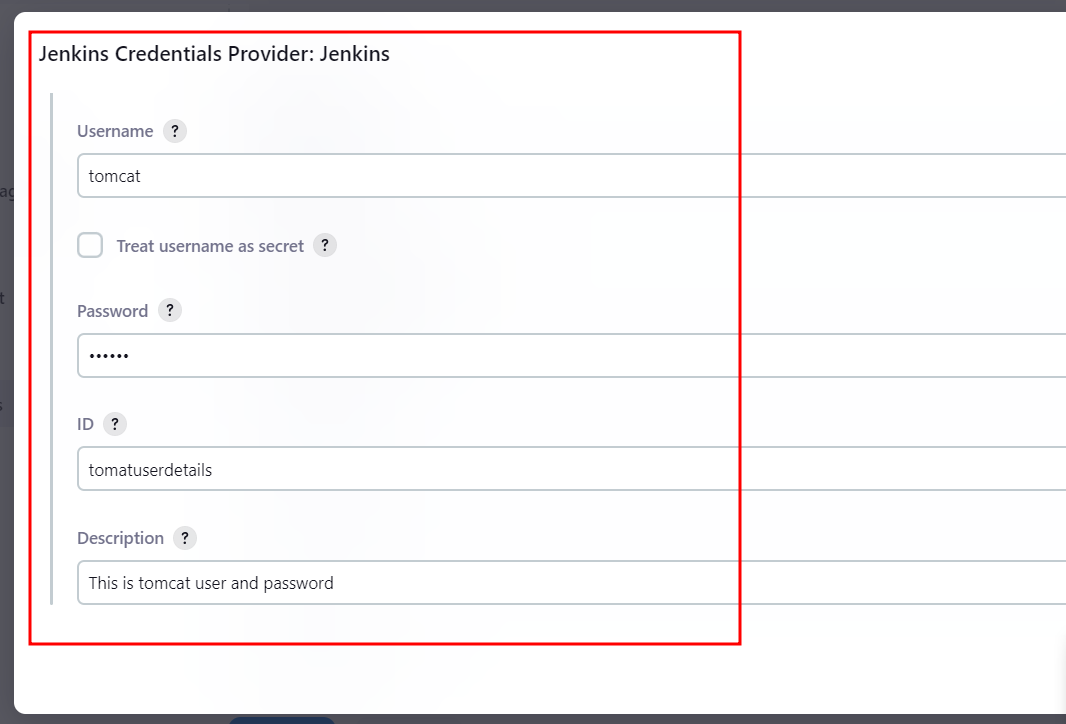
Please install this plugin

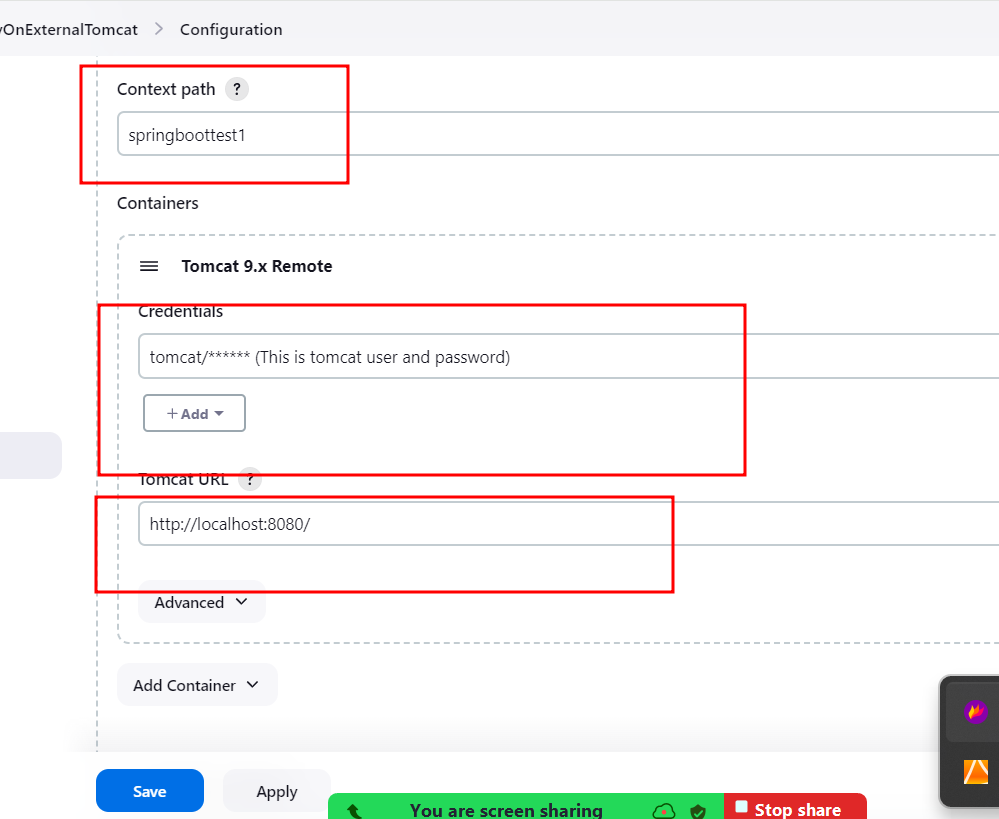






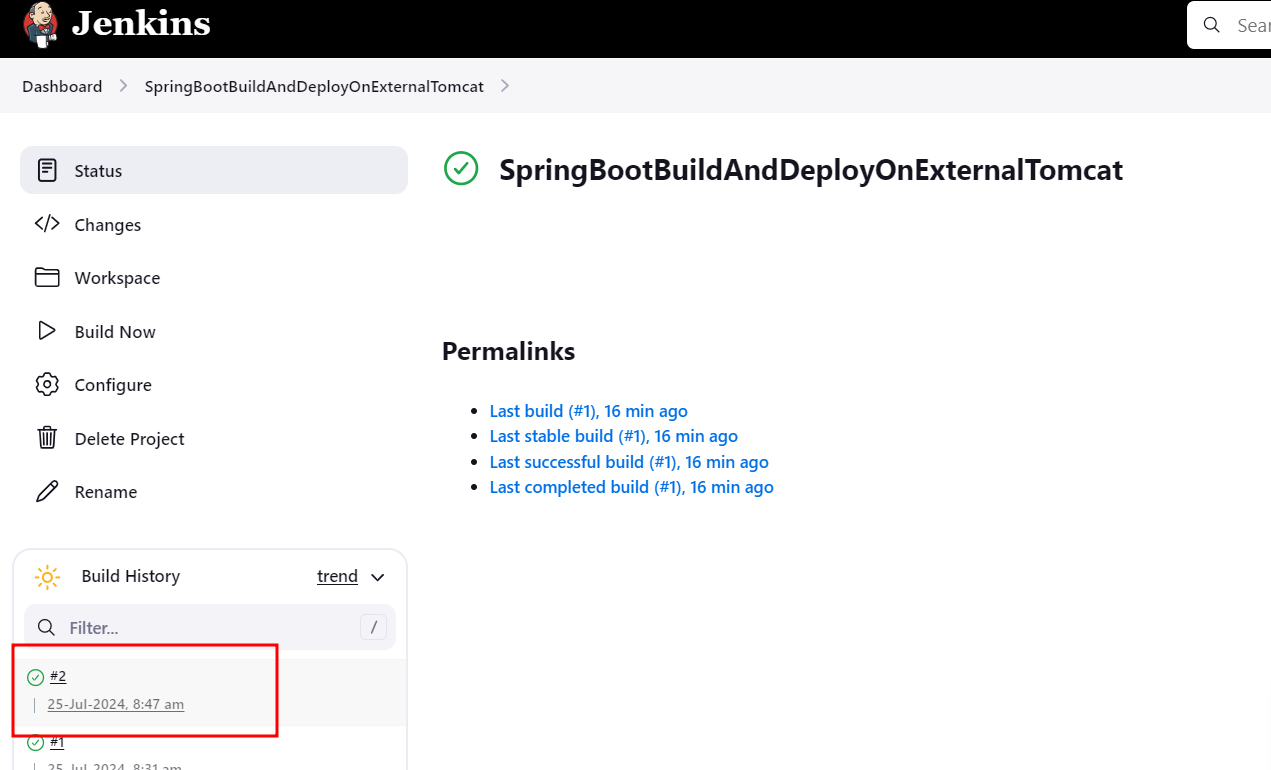






Now apply and save

Then build it



Then please verify application on external tomcat server

