ASSIGNMENT 6 DevOps

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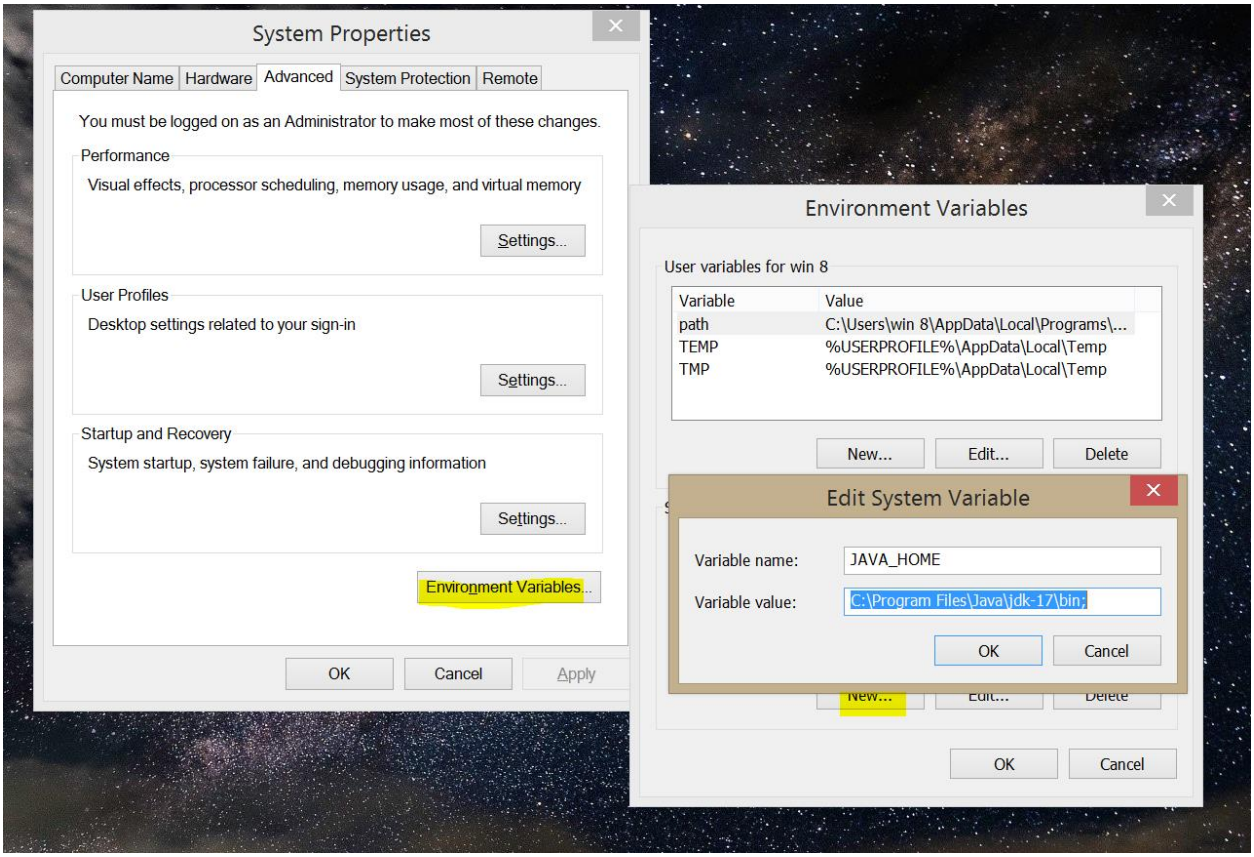
Create a web application, Commit changes to GitHub/GitLab repository. Use GitHub/GitLab, Maven, Tomcat with Jenkins. Automate Deployment of the above-mentioned application to a container using Jenkins plugin, "Deploy to container".

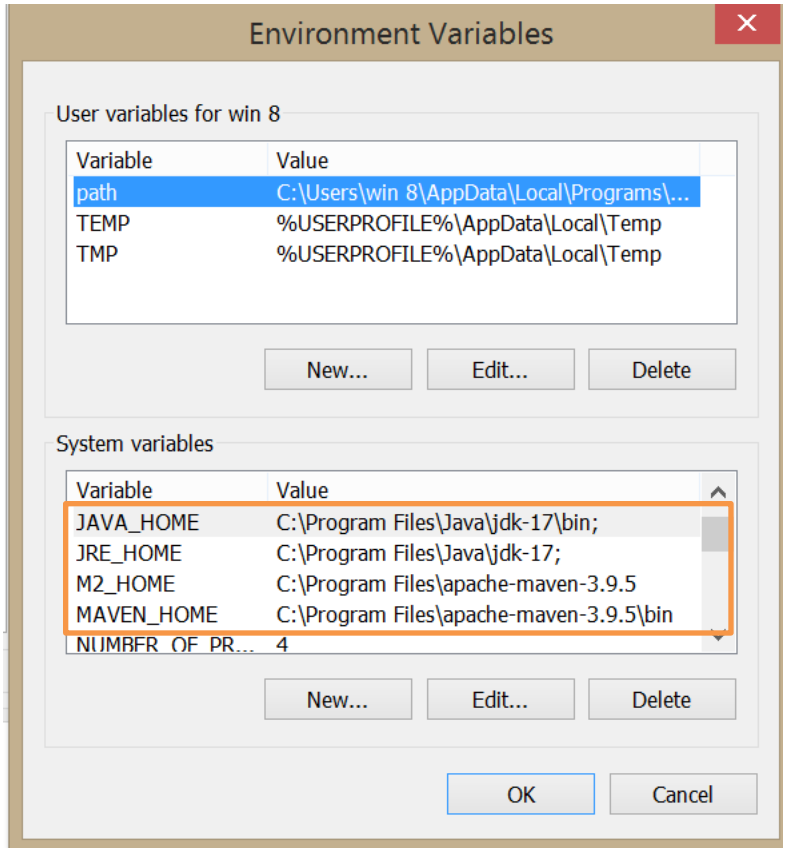
Prerequisite: Eclipse,Gitbash ,apache maven(apache-maven-3.9.5-bin.zip),tomact server(32-bit/64-bit Windows Service Installer (pgp, sha512), **mandatary note:while downloading change the tomcat port to 8081**),jenkins, github account ,os:windows8+

1)After downloading maven and tomcat make sure the folder are in C drive under program files and set up the environment variable

Search edit environment variable and place the jdk/bin directory



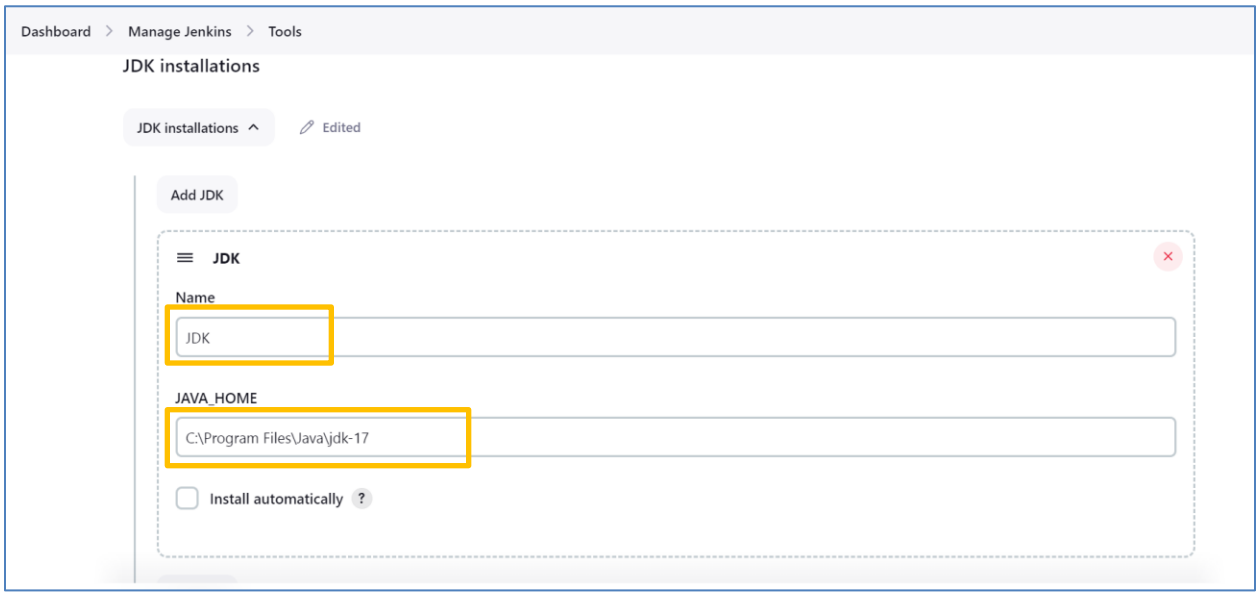
Like this place all four evironement variable



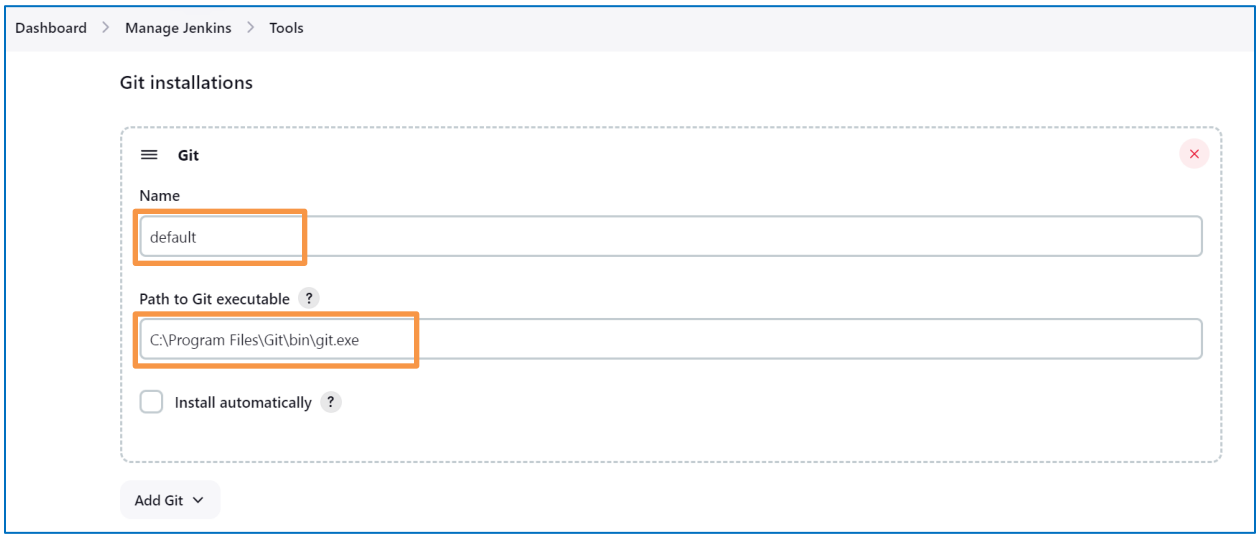
Click ok and save

2)open jenkins localhost:8080 , go to DashBoard>Manage Jenkins>Tools(global tool)

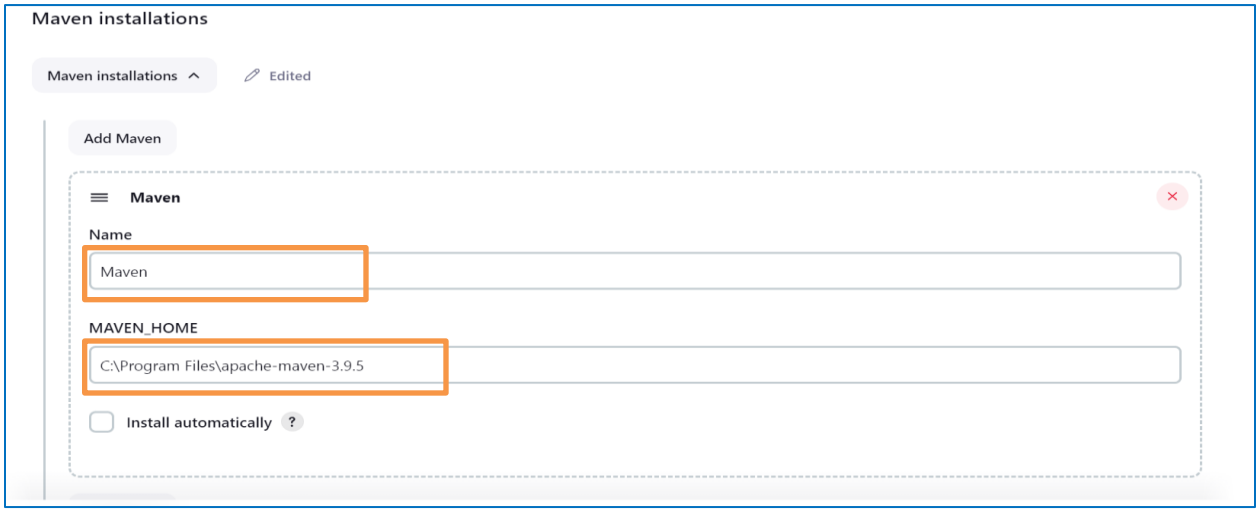
Click on jdk installation add the name and paste jdk directory



Click on git installation and write the name and place the path of git

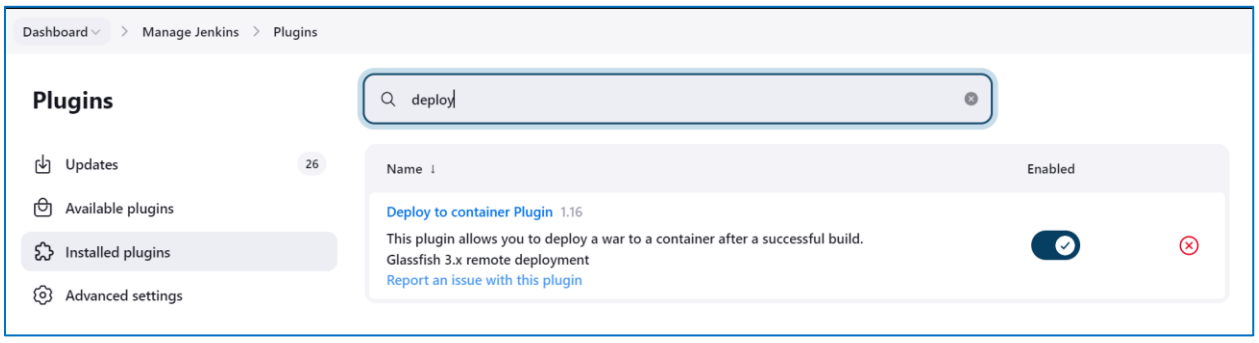


Click on maven installation and add the name and place the directory



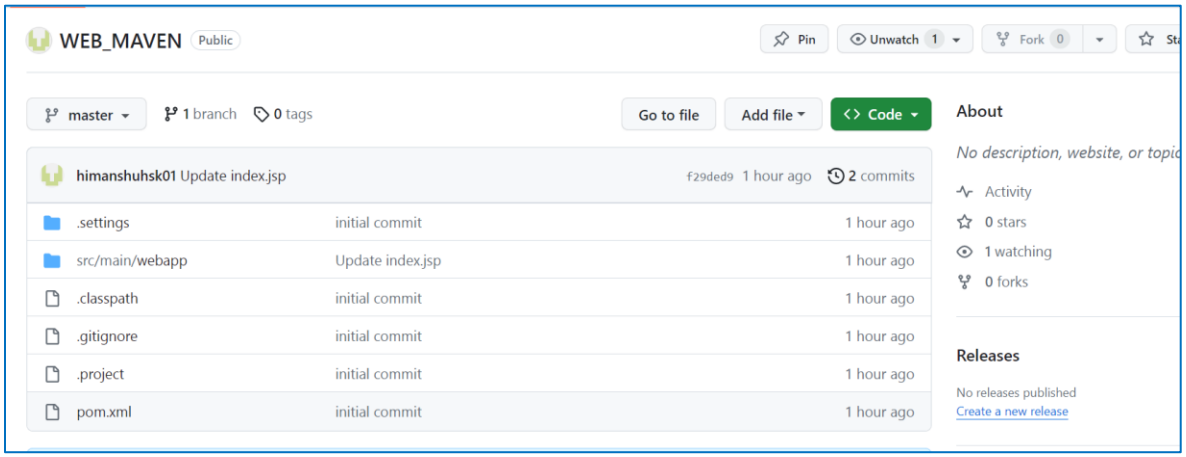
Click on Apply and save

3)Again go to Manage jenkins>Plugin and install the "**deploy to container plugin"**

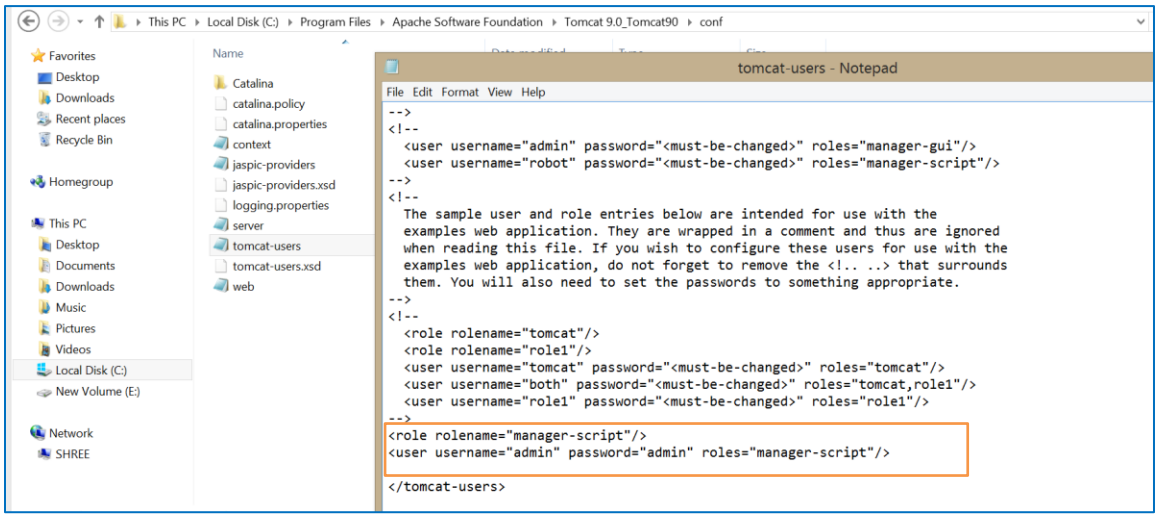


4)go to Eclipse create a maven project(creation_link) and push to git hub(link)

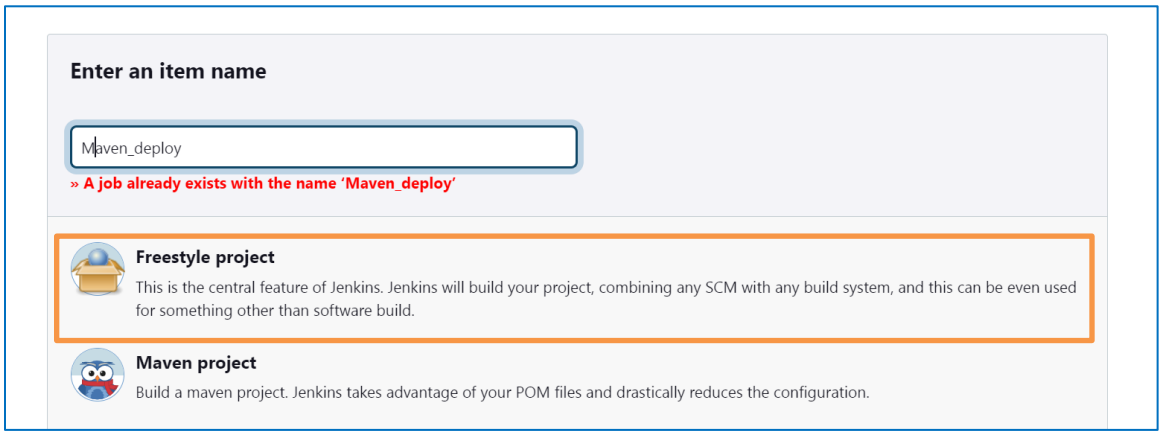
Here is my repo(https://github.com/himanshuhsk01/WEB_MAVEN)



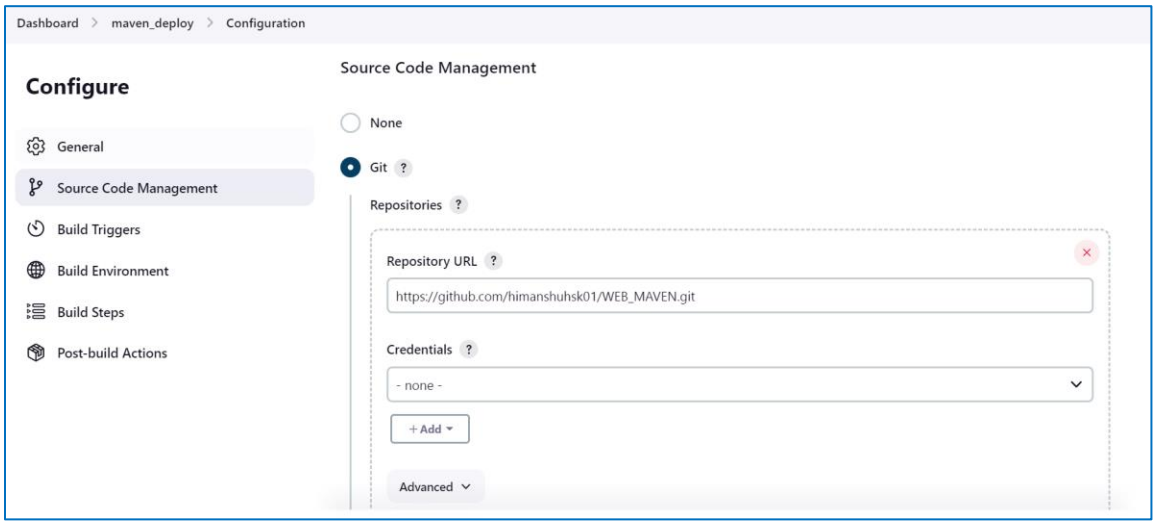
5)go to C:>Program Files>Apache Software Foundation>Tomcat 9.0_Tomcat90>conf and under conf click on tomcat-users.xml add this lines



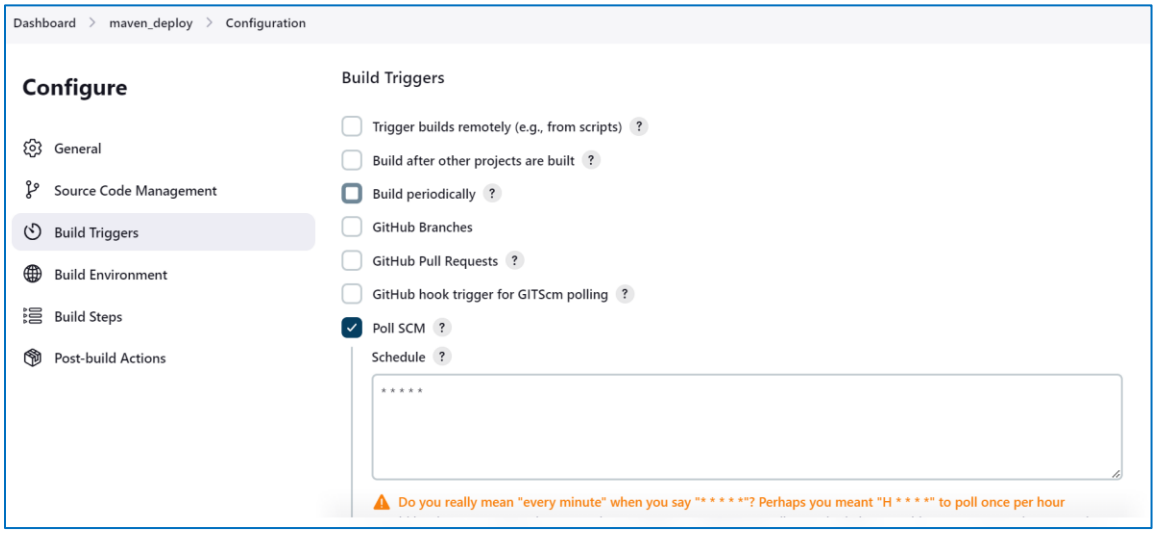
6)go to Dashboard>new item write the project name and choose free style project



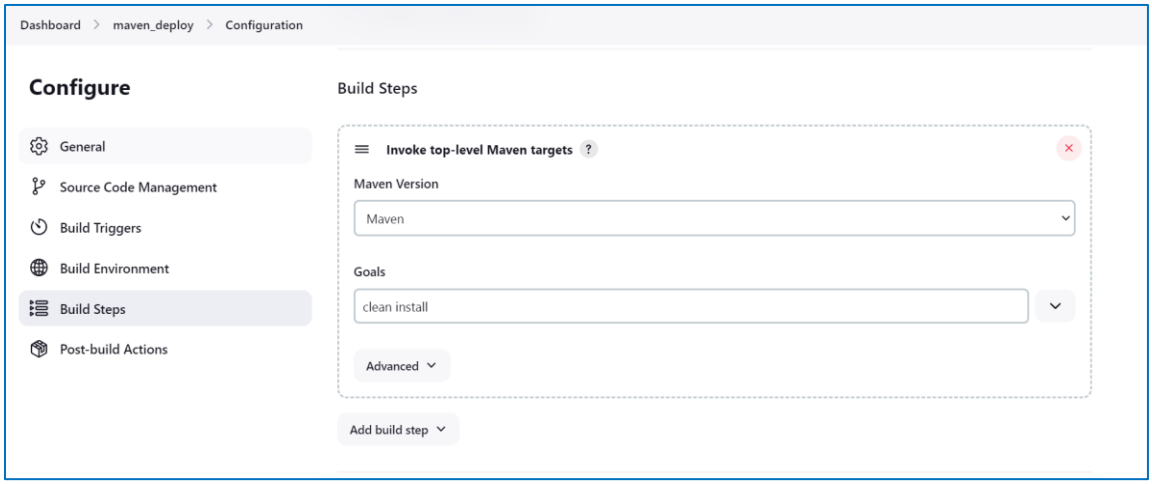
7)add the github account which you created



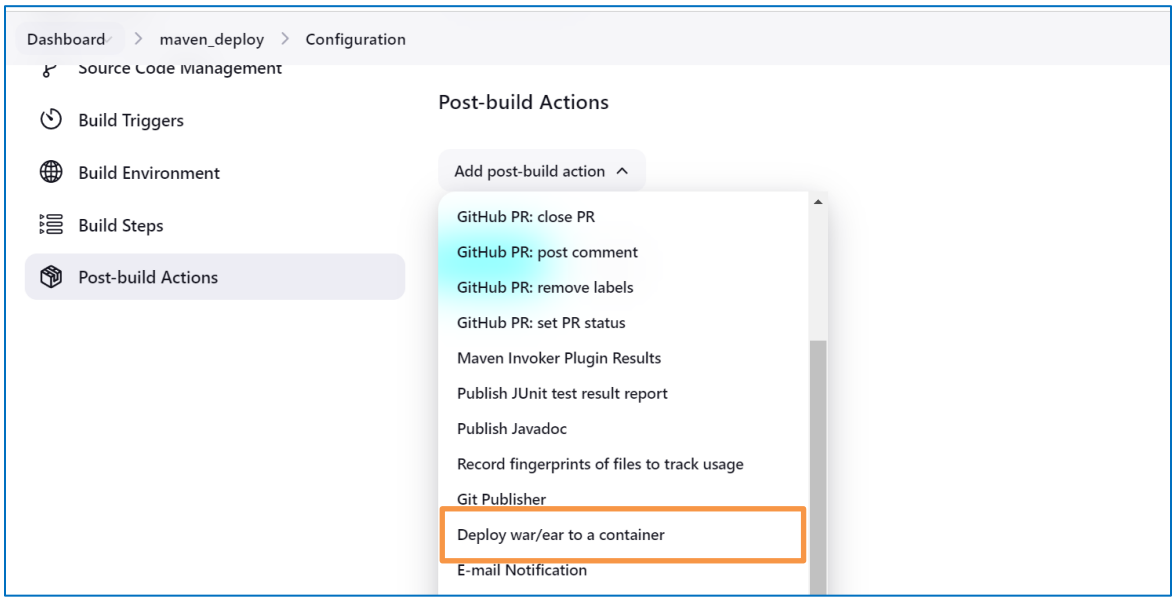
under build Triggers go to poll scm and write five * with single space



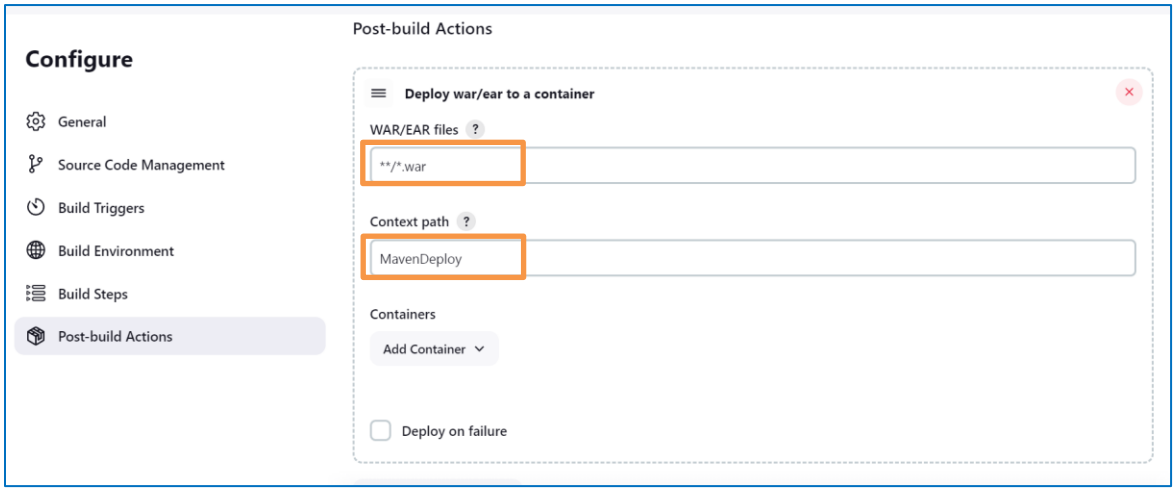
Add a build step select Maven and in goal write “clean install”



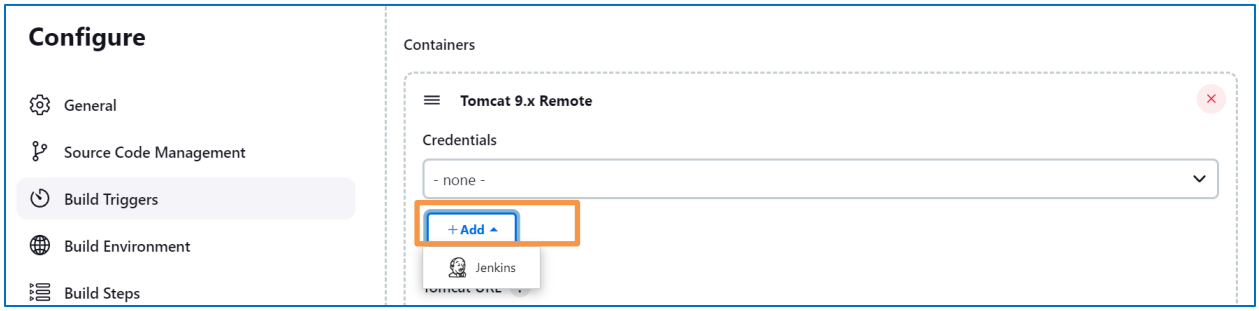
In post build select deploy war/ear to a container



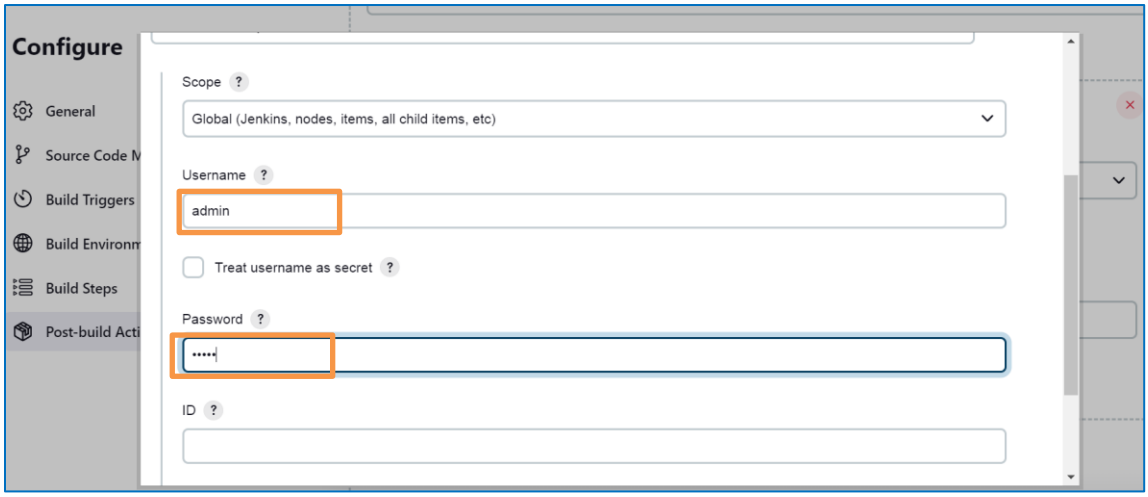
Write this **/*.war and in context path you can write any name but keep in mind for deployment



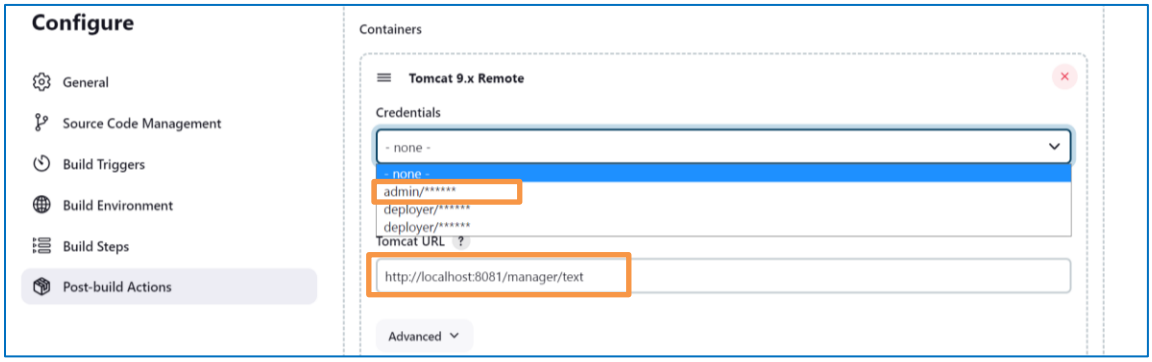
Select add container and select the tomcat version which you have installed (in this case it is 9.0 version)



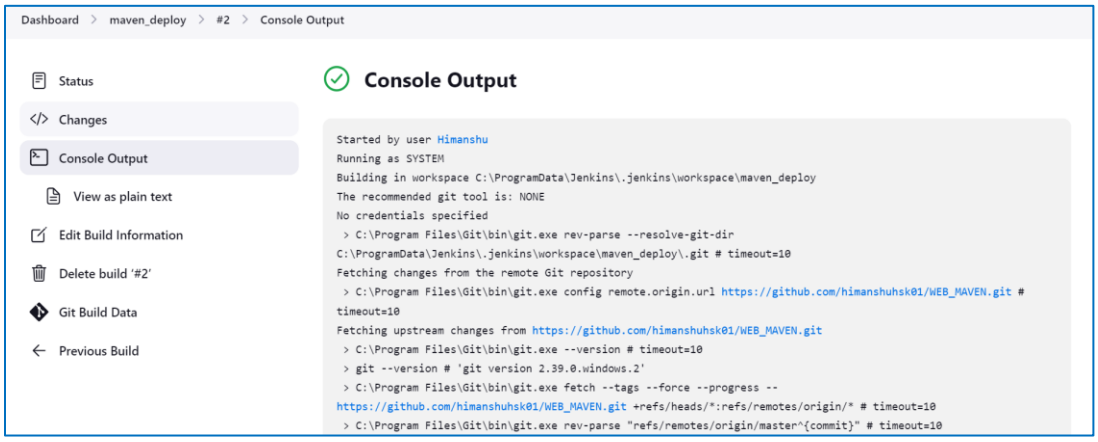
Now write the username(admin) and password(admin) which you have written in the tomact-user.xml click on add



Now you will able to see that under cerdentials click on it and write the tomcat url as it is (as suggested while downloading you have to change the port to 8081)



Now save and run it is successfully build



Now to deploy just write “**http://localhost:8081/MavenDeploy/ “ in browser**