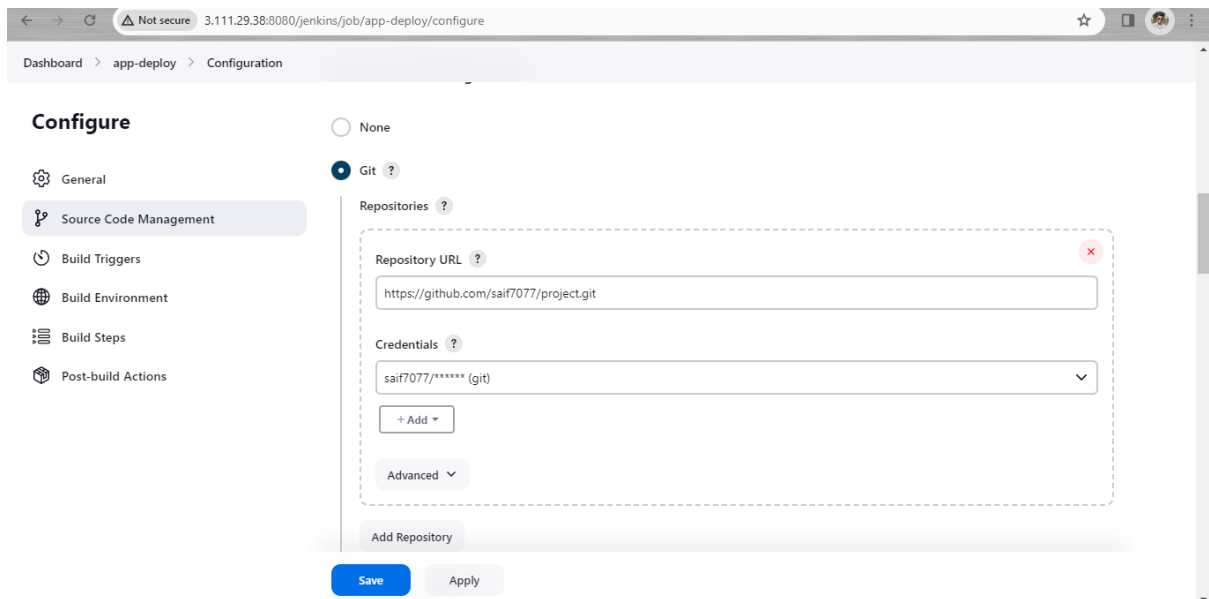


## Assignment 2 :- Building a job to deploy application on Tomcat server using Jenkins Automation Tool

1.



The screenshot shows the Jenkins Configuration page for the 'app-deploy' job, specifically the 'Source Code Management' section. The 'Git' option is selected. The 'Repository URL' is set to 'https://github.com/saif7077/project.git'. The 'Credentials' dropdown shows 'saif7077/\*\*\*\*\* (git)'. There are 'Add' and 'Advanced' buttons. At the bottom, there are 'Save' and 'Apply' buttons.

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

None

Git

Repositories

Repository URL

https://github.com/saif7077/project.git

Credentials

saif7077/\*\*\*\*\* (git)

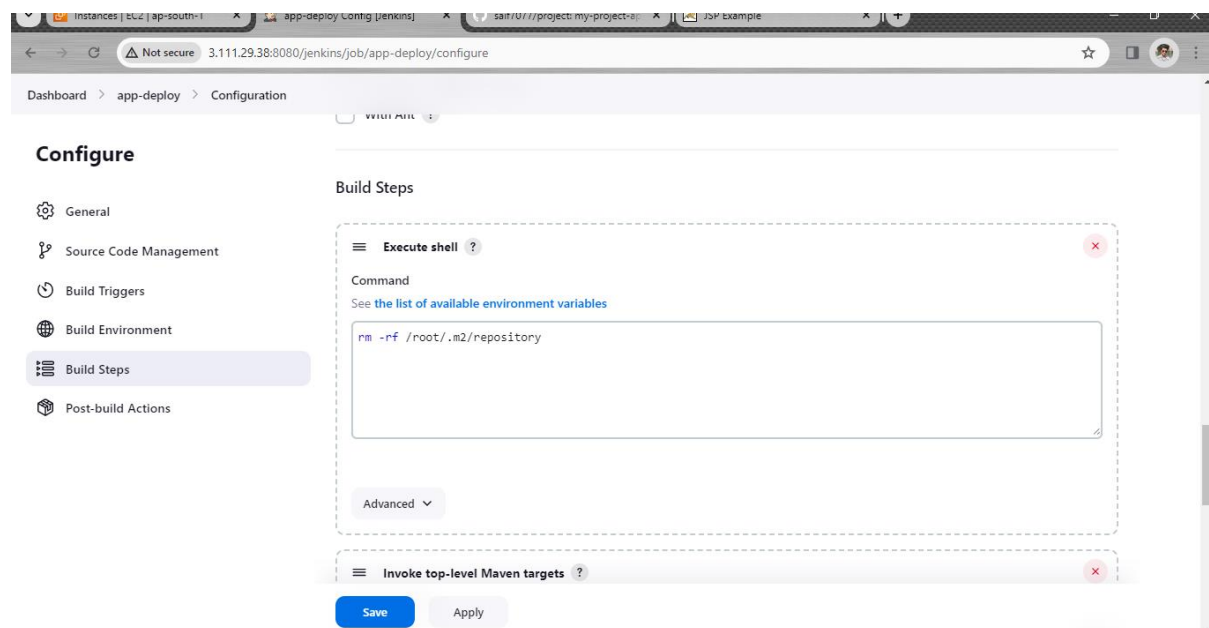
+ Add

Advanced

Add Repository

Save Apply

2.



The screenshot shows the Jenkins Configuration page for the 'app-deploy' job, specifically the 'Build Steps' section. The 'Execute shell' step is added with the command 'rm -rf /root/.m2/repository'. The 'Invoke top-level Maven targets' step is also visible. There are 'Save' and 'Apply' buttons at the bottom.

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Build Steps

Execute shell

Command

See the list of available environment variables

rm -rf /root/.m2/repository

Advanced

Invoke top-level Maven targets

Save Apply

3.

The screenshot shows the Jenkins Configuration page for a job named 'app-deploy'. The left sidebar contains a 'Configure' section with a list of options: General, Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The 'Build Steps' option is selected. The main content area is titled 'Invoke top-level Maven targets' and contains a 'Maven Version' dropdown set to 'maven' and a 'Goals' dropdown set to 'clean install'. Below these is an 'Advanced' dropdown. The second step is titled 'Execute shell' and contains a 'Command' field with the text: `cp -r target/LoginWebApp.war /mnt/servers/apache-tomcat-9.0.86/webapps`. At the bottom of the configuration area are 'Save' and 'Apply' buttons.

4.

The screenshot shows the Jenkins Console Output page for the 'app-deploy' job. The left sidebar contains a 'Console Output' section with a list of options: Status, Changes, Console Output, View as plain text, Edit Build Information, Delete build '#2', Git Build Data, and Previous Build. The 'Console Output' option is selected. The main content area is titled 'Console Output' and shows the following text: 

```
Started by user saif
Running as SYSTEM
Building in workspace /root/.jenkins/workspace/app-deploy
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] Done
The recommended git tool is: NONE
using credential git
Cloning the remote Git repository
Cloning repository https://github.com/saif7077/project.git
> git init /root/.jenkins/workspace/app-deploy # timeout=10
Fetching upstream changes from https://github.com/saif7077/project.git
> git --version # timeout=10
> git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials git
> git fetch --tags --progress -- https://github.com/saif7077/project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/saif7077/project.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
```

5.

The screenshot shows the Jenkins web interface with the 'Console Output' tab selected for the 'app-deploy' job. The output log displays the following information:

- at 13 MB/s)
- [INFO] Packaging webapp
- [INFO] Assembling webapp [LoginWebApp] in [/root/.jenkins/workspace/app-deploy/target/LoginWebApp]
- [INFO] Processing war project
- [INFO] Copying webapp resources [/root/.jenkins/workspace/app-deploy/src/main/webapp]
- [INFO] Building war: /root/.jenkins/workspace/app-deploy/target/LoginWebApp.war
- [INFO] --- install:3.1.1:install (default-install) @ LoginWebApp ---
- [INFO] Installing /root/.jenkins/workspace/app-deploy/pom.xml to /root/.m2/repository/com/javawebtutor/LoginWebApp/1.0-SNAPSHOT/LoginWebApp-1.0-SNAPSHOT.pom
- [INFO] Installing /root/.jenkins/workspace/app-deploy/target/LoginWebApp.war to /root/.m2/repository/com/javawebtutor/LoginWebApp/1.0-SNAPSHOT/LoginWebApp-1.0-SNAPSHOT.war
- [INFO] BUILD SUCCESS
- [INFO] Total time: 10.296 s
- [INFO] Finished at: 2024-02-27T06:27:09Z
- [INFO]
- [app-deploy] \$ /bin/sh -xe /mnt/servers/apache-tomcat-9.0.86/temp/jenkins5843349146173772302.sh
- + cp -r target/LoginWebApp.war /mnt/servers/apache-tomcat-9.0.86/webapps
- Finished: SUCCESS

At the bottom right of the console output area, the text 'REST API' and 'Jenkins 2.440.1' is visible.

6.

The screenshot shows a web browser displaying the 'Login Page' of a web application. The page has a light gray background and contains the following elements:

- Login Page** (centered heading)
- Username** label followed by a text input field.
- Password** label followed by a text input field.
- Login** button.
- Reset** button.
- New User** label followed by a blue link [Register Here](#).