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JENKINS + GITHUB + MAVEN + TOMCAT – Integration Project

Overview

This project involves setting up a Jenkins job that pulls code from a GitHub repository, compiles and packages it using Maven, and deploys the generated WAR file to an Apache Tomcat webserver. The deployment should be automated whenever changes are pushed to the GitHub repository.

Key Points:

- Jenkins should automatically build and deploy the application upon code changes.
- Jenkins will run on **port 8080**, and Tomcat will run on **port 9090**.
- All installations and configurations will be performed on an **EC2 instance**.

Step: Create an EC2 Instance

- Launch an **EC2 instance** (Amazon Linux 2023).
- Connect to the instance using **MobaXTerm** or an SSH client.

The screenshot displays the AWS Management Console interface for an EC2 instance named 'Jenkins_instance' (ID: i-0215ab538f1feafb0). The instance is in a 'Running' state. Below the console output, a terminal window shows the execution of 'dnf install git -y' on an Amazon Linux 2023 instance. The terminal output lists the packages being installed, their versions, and the repository they were downloaded from. The packages include git, git-core, git-core-doc, perl-error, perl-file-find, perl-git, perl-termReadKey, perl-lib, and perl-core-doc. The total download size is 7.7 MB, and the installed size is 37 MB. The terminal also shows the transaction summary and the successful completion of the installation process.

Package	Architecture	Version	Repository	Size
git	x86_64	2.47.1-1.amzn2023.0.2	amazonlinux	54 k
git-core	x86_64	2.47.1-1.amzn2023.0.2	amazonlinux	4.7 M
git-core-doc	noarch	2.47.1-1.amzn2023.0.2	amazonlinux	2.8 M
perl-error	noarch	1.0:17029-5.amzn2023.0.2	amazonlinux	41 k
perl-file-find	noarch	1.37-477.amzn2023.0.6	amazonlinux	26 k
perl-git	noarch	2.47.1-1.amzn2023.0.2	amazonlinux	42 k
perl-termReadKey	x86_64	2.38-9.amzn2023.0.2	amazonlinux	36 k
perl-lib	x86_64	0.65-477.amzn2023.0.6	amazonlinux	15 k

Transaction Summary
Install 8 Packages
Total download size: 7.7 M
Installed size: 37 M
Downloading Packages:
(1/8): git-2.47.1-1.amzn2023.0.2.x86_64.rpm
(2/8): perl-error-1.0:17029-5.amzn2023.0.2.noarch.rpm
(3/8): perl-file-find-1.37-477.amzn2023.0.6.noarch.rpm
(4/8): perl-git-2.47.1-1.amzn2023.0.2.noarch.rpm
(5/8): perl-termReadKey-2.38-9.amzn2023.0.2.x86_64.rpm
(6/8): git-core-2.47.1-1.amzn2023.0.2.x86_64.rpm
(7/8): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm
(8/8): git-core-doc-2.47.1-1.amzn2023.0.2.noarch.rpm

Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : git-core-2.47.1-1.amzn2023.0.2.x86_64

1/1
1/8

Step: Install and Configure Jenkins using Script

```
#!/bin/bash
```

```
# Update system packages
```

```
sudo dnf update -y
```

```
# Install Java 17 (Jenkins requires Java to run)
```

```
sudo dnf install java-17-amazon-corretto -y
```

```
# Verify Java installation
```

```
java -version
```

```
# Add Jenkins repository
```

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

```
# Import Jenkins key
```

```
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
```

```
# Install Jenkins
```

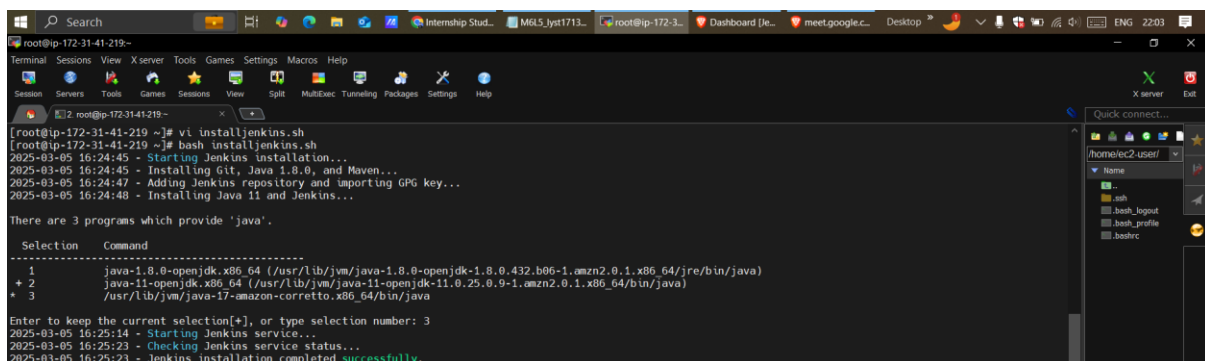
```
sudo dnf install jenkins -y
```

```
# Enable and start Jenkins service
```

```
sudo systemctl enable jenkins
```

```
sudo systemctl start Jenkins
```

- Ensure Jenkins is **Active & Running**.



```
[root@ip-172-31-41-219 ~]# vi installjenkins.sh
[root@ip-172-31-41-219 ~]# bash installjenkins.sh
2025-03-05 16:24:45 - Starting Jenkins installation...
2025-03-05 16:24:45 - Installing Git, Java 1.8.0, and Maven...
2025-03-05 16:24:47 - Adding Jenkins repository and importing GPG key...
2025-03-05 16:24:48 - Installing Java 11 and Jenkins...

There are 3 programs which provide 'java'.

  Selection      Command
-----
+ 1              java-1.8.0-openjdk.x86_64 (/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.432.b06-1.amzn2.0.1.x86_64/jre/bin/java)
+ 2              java-11-openjdk.x86_64 (/usr/lib/jvm/java-11-openjdk-11.0.25.0.9-1.amzn2.0.1.x86_64/bin/java)
* 3              /usr/lib/jvm/java-17-amazon-corretto.x86_64/bin/java

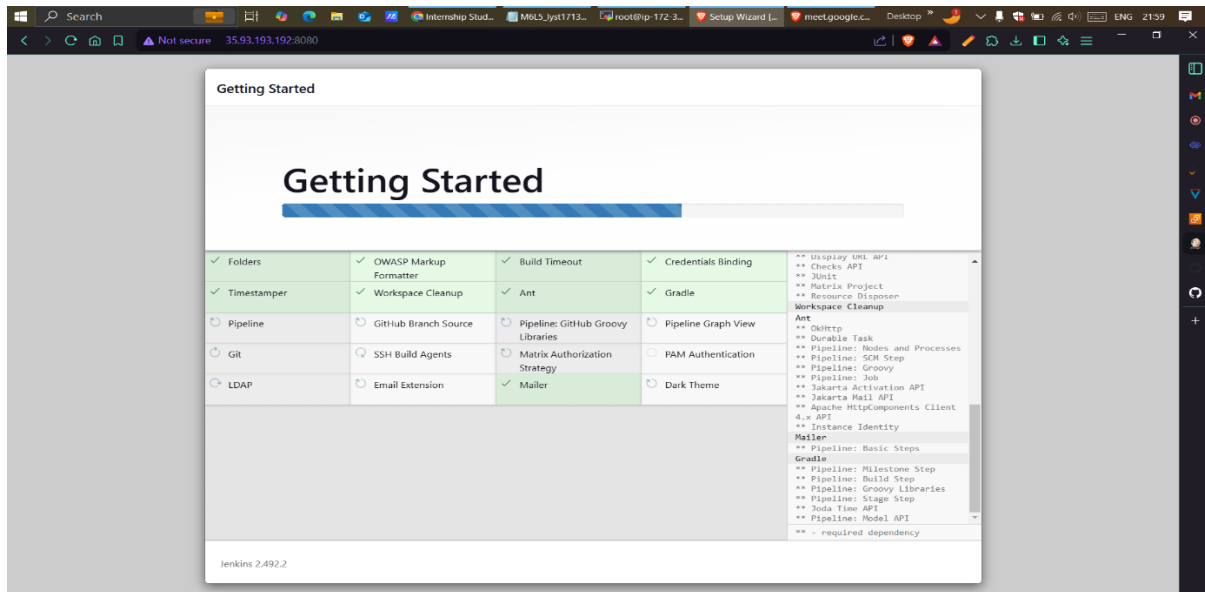
Enter to keep the current selection[+], or type selection number: 3
2025-03-05 16:25:14 - Starting Jenkins service...
2025-03-05 16:25:23 - Checking Jenkins service status...
2025-03-05 16:25:23 - Jenkins installation completed successfully.
```

Step: Open Jenkins Port (8080) in Security Group

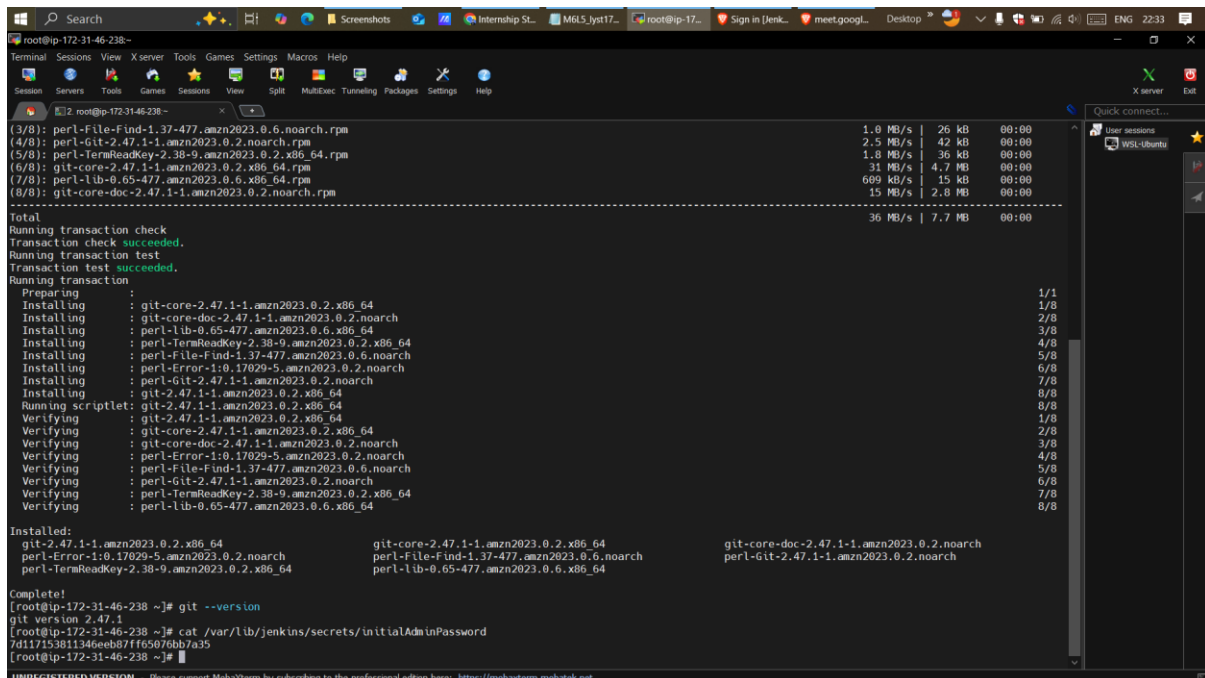
- Go to EC2 Instance → Security → Security Groups.
- Click on Inbound Rules → Edit.
- Add a new rule:
 - **Type:** Custom TCP
 - **Port Range:** 8080
 - **Source:** Anywhere (0.0.0.0/0)

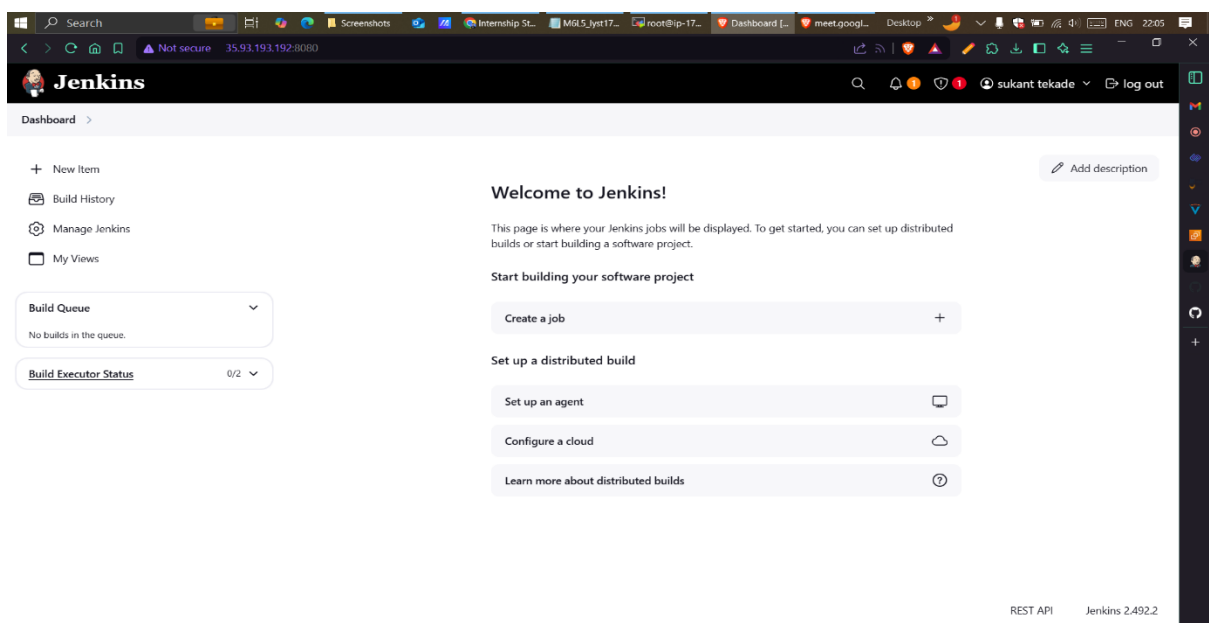
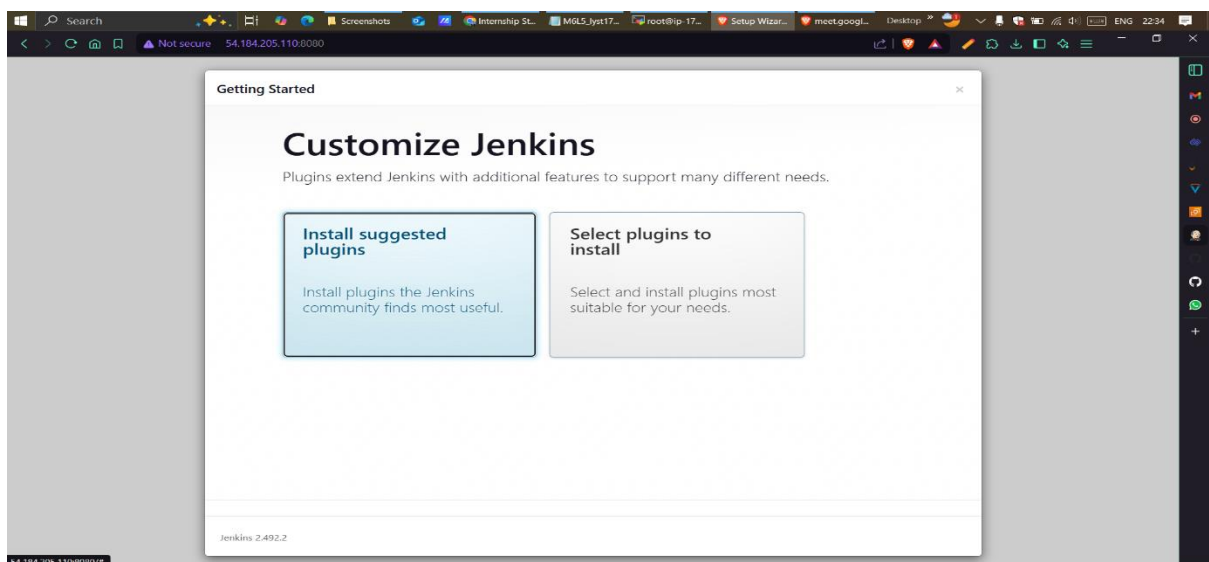
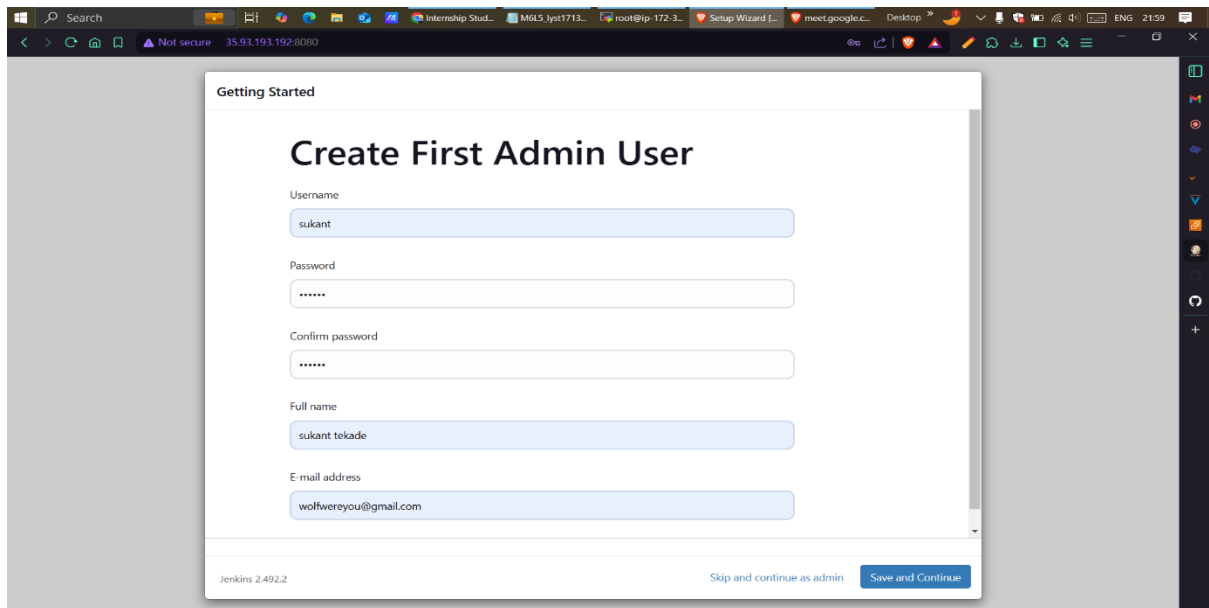
Step: Unlock Jenkins

- Open a browser and enter: **http://<Public-IP>:8080**.



- Copy the **red-colored code** displayed.
- Retrieve the password using:
 - **sudo cat /var/lib/jenkins/secrets/initialAdminPassword**
- Paste the password in Jenkins UI.
- Install **Suggested Plugins** and create an **Admin User**.





Step: Install and Configure Tomcat Webserver using Script

[Internship-Studio-Project/installtomcat.sh](#)

Step: Download and Extract Tomcat

```
root@ip-172-31-46-238- ~# vi installtomcat.sh
root@ip-172-31-46-238 ~# bash installtomcat.sh
2025-03-05 17:50:29 - Starting Tomcat installation script...
Last metadata expiration check: 0:50:43 ago on Wed Mar  5 16:59:46 2025.
Package wget-1.21.3-1.amzn2023.0.4.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
2025-03-05 17:50:30 - Amazon Linux detected. Installing Java Development Kit...
Last metadata expiration check: 0:50:44 ago on Wed Mar  5 16:59:46 2025.
Package java-17-amazon-corretto-1:17.0.14+7-1.amzn2023.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
Last metadata expiration check: 0:50:45 ago on Wed Mar  5 16:59:46 2025.
Dependencies resolved.

=====
Package                                Architecture      Version            Repository          Size
=====
Installing:
java-17-amazon-corretto-devel          x86_64            1:17.0.14+7-1.amzn2023.1  amazonlinux         142 k
=====
Transaction Summary
-----
Install 1 Package

Total download size: 142 k
Installed size: 1.1 M
Downloading Packages:
java-17-amazon-corretto-devel-1:17.0.14+7-1.amzn2023.1.x86_64.rpm              1.5 MB/s | 142 kB  00:00
-----
Total                                                                           1.1 MB/s | 142 kB  00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                : java-17-amazon-corretto-devel-1:17.0.14+7-1.amzn2023.1.x86_64      1/1
  Installing               : java-17-amazon-corretto-devel-1:17.0.14+7-1.amzn2023.1.x86_64      1/1
  Running scriptlet        : java-17-amazon-corretto-devel-1:17.0.14+7-1.amzn2023.1.x86_64      1/1
  Verifying                : java-17-amazon-corretto-devel-1:17.0.14+7-1.amzn2023.1.x86_64      1/1
Installed:

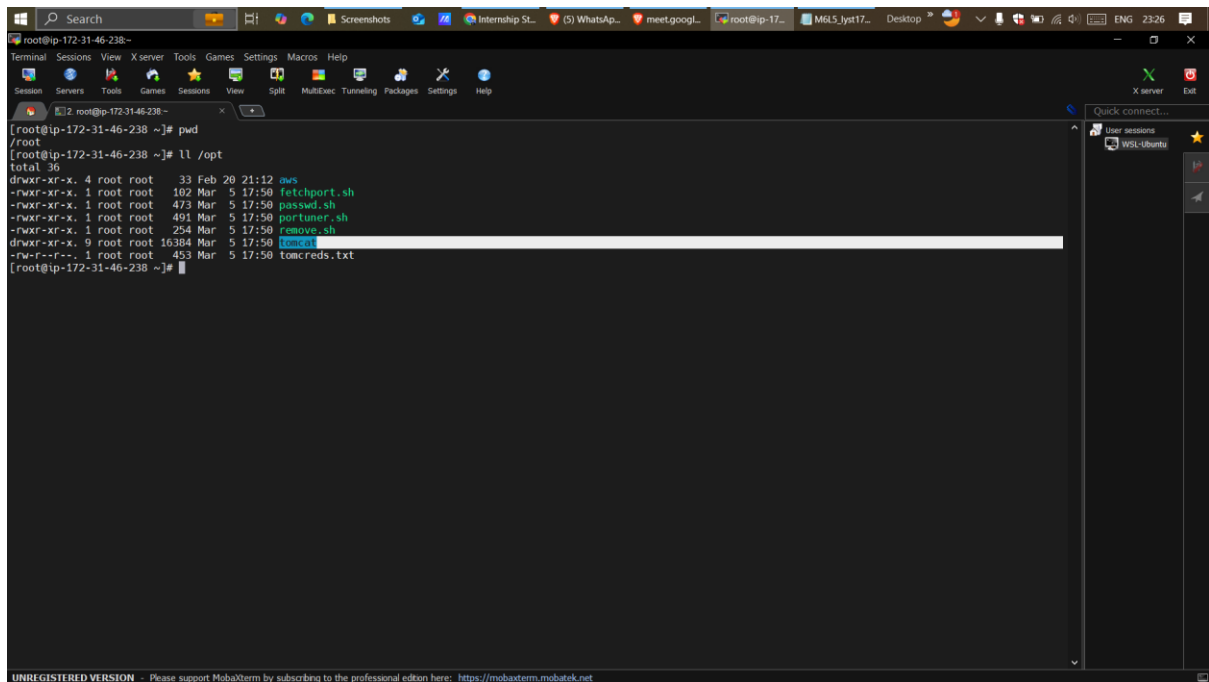
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```

```
root@ip-172-31-46-238- ~# bash installtomcat.sh
2025-03-05 17:50:33 - Moving Tomcat to /opt and setting permissions...
2025-03-05 17:50:34 - Setting permissions...
2025-03-05 17:50:34 - Configuring Tomcat users...
2025-03-05 17:50:34 - Starting Tomcat...
Using CATALINA_BASE: /opt/tomcat
Using CATALINA_HOME: /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME: /usr
Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Tomcat started.
2025-03-05 17:50:34 - Saving Tomcat credentials...
# /bin/bash
# Store the provided port number
echo "Changing Tomcat port to $1..."

# Update the port number in server.xml
sudo sed -i 's/<Connector port="<!--<Connector port="$1" protocol="HTTP/1.1" /opt/tomcat/conf/server.xml

# Update the portnumber in tomcatcreds.txt
sed -i 's/portnumber:"$1"/opt/tomcat/creds.txt
sed -i 's/"$1"/opt/tomcat/creds.txt

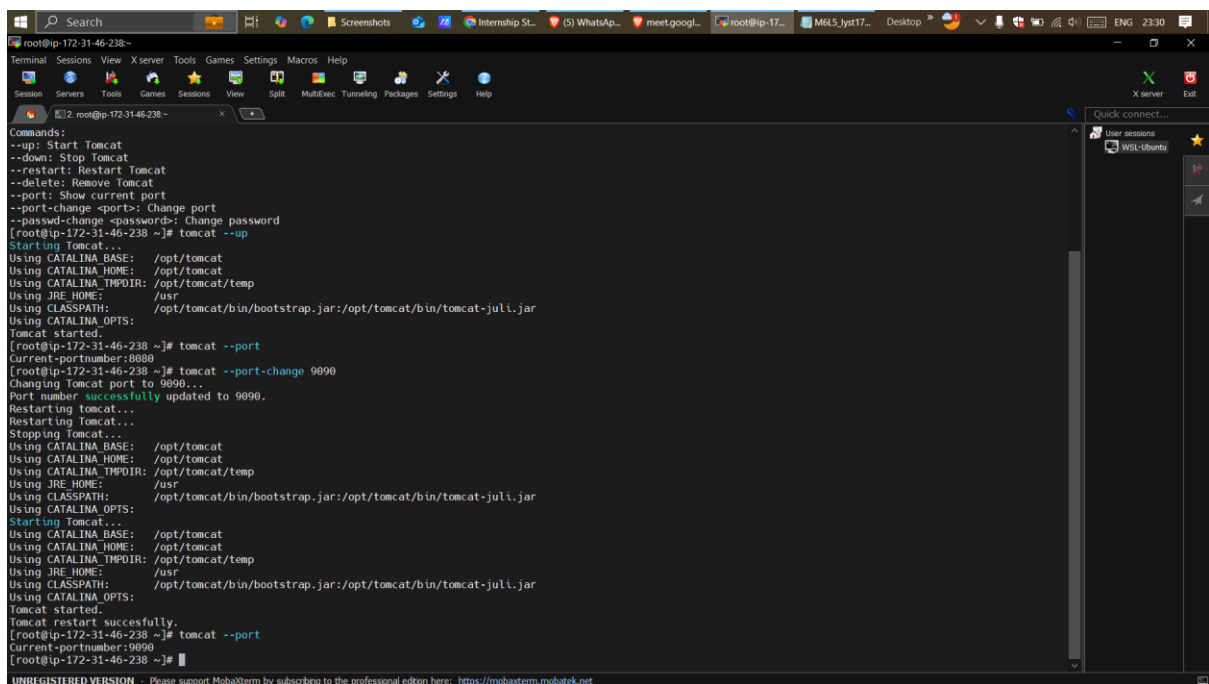
echo "Port number successfully updated to $1. "
echo "Restarting tomcat..."
tomcat --restart
echo "Tomcat restart successfully."
# /bin/bash
sudo /opt/tomcat/bin/shutdown.sh
sleep 10
sudo rm -r /opt/tomcat/
sudo rm -r /opt/jdk-17/
sudo rm -r /usr/local/sbin/tomcat
sudo rm -f /opt/tomcat/creds.txt
sudo rm -f /opt/portnumber.sh
sudo rm -f /opt/passwd.sh
echo "Tomcat removed successfully"
# /bin/bash
echo "Current=$(sed -n '/portnumber/p' /opt/tomcat/creds.txt)"
sed -n '4p' /opt/tomcat/creds.txt
2025-03-05 17:50:35 - Cleaning up...
2025-03-05 17:50:35 - Tomcat installation and configuration complete.
root@ip-172-31-46-238 ~#
```



```
root@ip-172-31-46-238 ~# pwd
/root
root@ip-172-31-46-238 ~# ll /opt
total 36
drwxr-xr-x. 4 root root 33 Feb 20 21:12 aws
-rwxr-xr-x. 1 root root 102 Mar 5 17:50 fetchport.sh
-rwxr-xr-x. 1 root root 473 Mar 5 17:50 passwd.sh
-rwxr-xr-x. 1 root root 491 Mar 5 17:50 porttuner.sh
-rwxr-xr-x. 1 root root 254 Mar 5 17:50 remove.sh
drwxr-xr-x. 9 root root 16384 Mar 5 17:50 tomcat
-rw-r--r--. 1 root root 453 Mar 5 17:50 tomcreds.txt
root@ip-172-31-46-238 ~#
```

Step: Start Tomcat using Inbuild Command “**tomcat --up**”

Step: Change Tomcat Port to 9090 using Inbuild Command “**tomcat --port-change 9090**”



```
Commands:
--up: Start Tomcat
--down: Stop Tomcat
--restart: Restart Tomcat
--delete: Remove Tomcat
--port: Show current port
--port-change <port>: Change port
--passwd-change <password>: Change password
root@ip-172-31-46-238 ~# tomcat --up
Starting Tomcat...
Using CATALINA_BASE: /opt/tomcat
Using CATALINA_HOME: /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME: /usr
Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
root@ip-172-31-46-238 ~# tomcat --port
Current-portnumber:8080
root@ip-172-31-46-238 ~# tomcat --port-change 9090
Changing Tomcat port to 9090...
Port number successfully updated to 9090.
Restarting tomcat...
Restarting Tomcat...
Stopping Tomcat...
Using CATALINA_BASE: /opt/tomcat
Using CATALINA_HOME: /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME: /usr
Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Starting Tomcat...
Using CATALINA_BASE: /opt/tomcat
Using CATALINA_HOME: /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME: /usr
Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
Tomcat restart successfully.
root@ip-172-31-46-238 ~# tomcat --port
Current-portnumber:9090
root@ip-172-31-46-238 ~#
```

Step: Open Tomcat Port (9090) in Security Group

1. EC2 Instance → Security → Security Groups → Edit Inbound Rules.
2. Add a new rule:
 - **Type:** Custom TCP
 - **Port Range:** 9090
 - **Source:** Anywhere (0.0.0.0/0).

Step: Configure Tomcat Users

1. Edit tomcat-users.xml:

```
cd ../conf  
vi tomcat-users.xml
```

2. Add the following users inside the <tomcat-users> tag:

```
<role rolename="manager-gui"/>  
<user username="tomcat" password="tomcat" roles="manager-gui"/>  
<role rolename="admin-gui"/>  
<user username="admin" password="admin" roles="manager-gui,admin-gui"/>
```

3. Save and restart Tomcat:

```
cd ../bin  
./shutdown.sh  
./startup.sh
```

4. Access Tomcat at: <http://<Public-IP>:9090>.

Step: Install Git on EC2 (For Jenkins)

```
sudo yum install git -y
```

Step: Jenkins Job - GitHub + Maven + Tomcat Deployment

Step: Grant Deployment Permission in Tomcat

1. Edit tomcat-users.xml:

```
vi tomcat-users.xml
```

2. Add:

```
<role rolename="manager-script"/>  
<user username="deploy" password="deploy" roles="manager-script"/>
```

3. Save and restart Tomcat:

```
cd ../bin  
./shutdown.sh  
./startup.sh
```


Search

Not secure 54.184.205.110:9090

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/11.0.4

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 Recommended Reading:

- [Security Considerations How-To](#)
- [Manager Application How-To](#)
- [Clustering/Session Replication How-To](#)

Server Status
Manager App
Host Manager

Developer Quick Start

- Tomcat Setup
- First Web Application
- Realms & AAA
- JDBC DataSources
- Examples
- Servlet Specifications
- Tomcat Versions

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 11.0 access to the manager application is split between different users. [Read more...](#)

[Release Notes](#)
[Changelog](#)
[Migration Guide](#)
[Security Notices](#)

Documentation

[Tomcat 11.0 Documentation](#)
[Tomcat 11.0 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

- [Tomcat 11.0 Bug Database](#)
- [Tomcat 11.0 JavaDocs](#)
- [Tomcat 11.0 Git Repository at GitHub](#)

Getting Help

[FAQ and Mailing Lists](#)



The following mailing lists are available:

- [tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).
- [tomcat-users](#)
User support and discussion
- [taglibs-user](#)
User support and discussion for [Apache Taglibs](#)
- [tomcat-dev](#)
Development mailing list, including commit messages

Other Downloads Other Documentation Get Involved Miscellaneous Apache Software Foundation

Search

Not secure 54.184.205.110:9090/manager/html

Tomcat Web Application Manager

Message: OK

Manager

[List Applications](#) [HTML Manager Help](#) [Manager Help](#) [Server Status](#)

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

Deploy directory or WAR file located on server

Context Path:

Version (for parallel deployment):

XML Configuration file path:

Step: Install Jenkins Plugin for Deployment

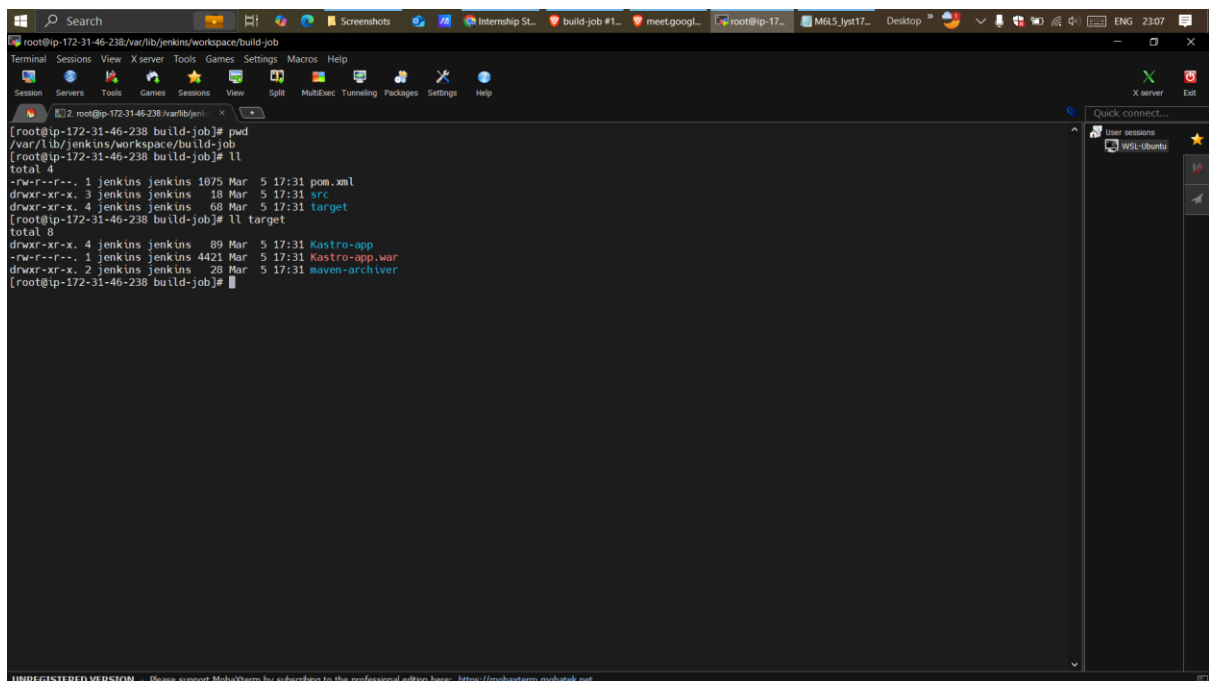
- Jenkins Dashboard → Manage Jenkins → Manage Plugins.
- Search for **Deploy to Container** plugin.
- Select and **Install without Restart**.

Step: Configure Jenkins for GitHub and Maven

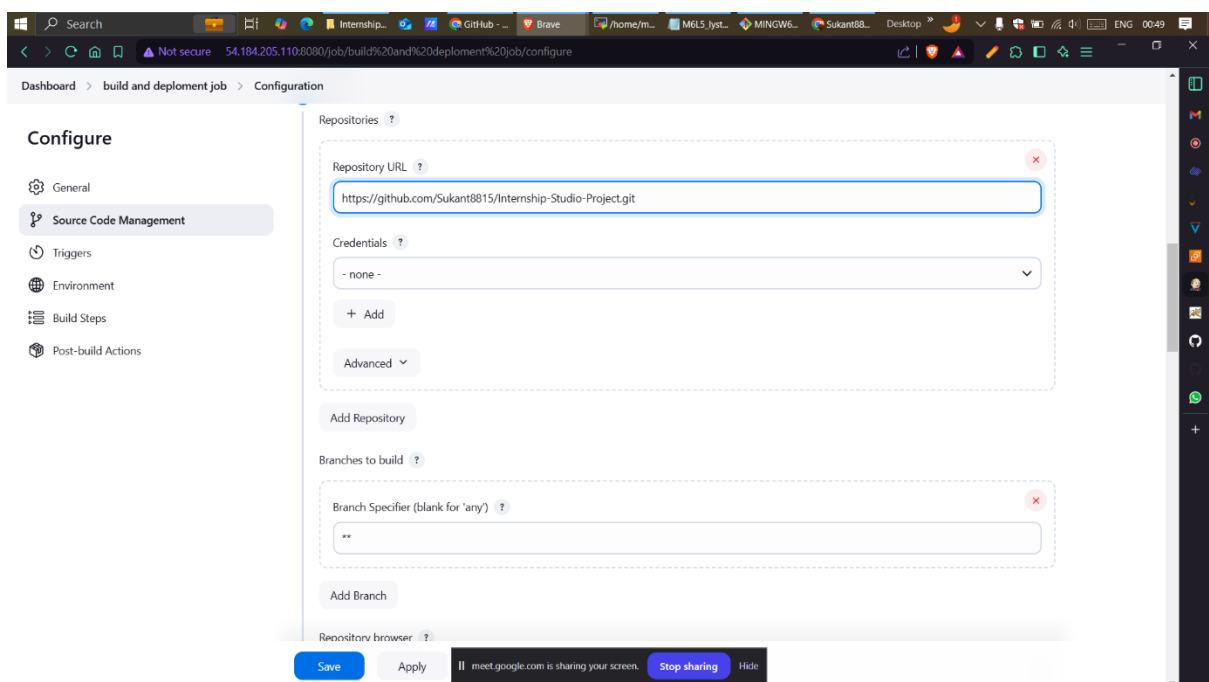
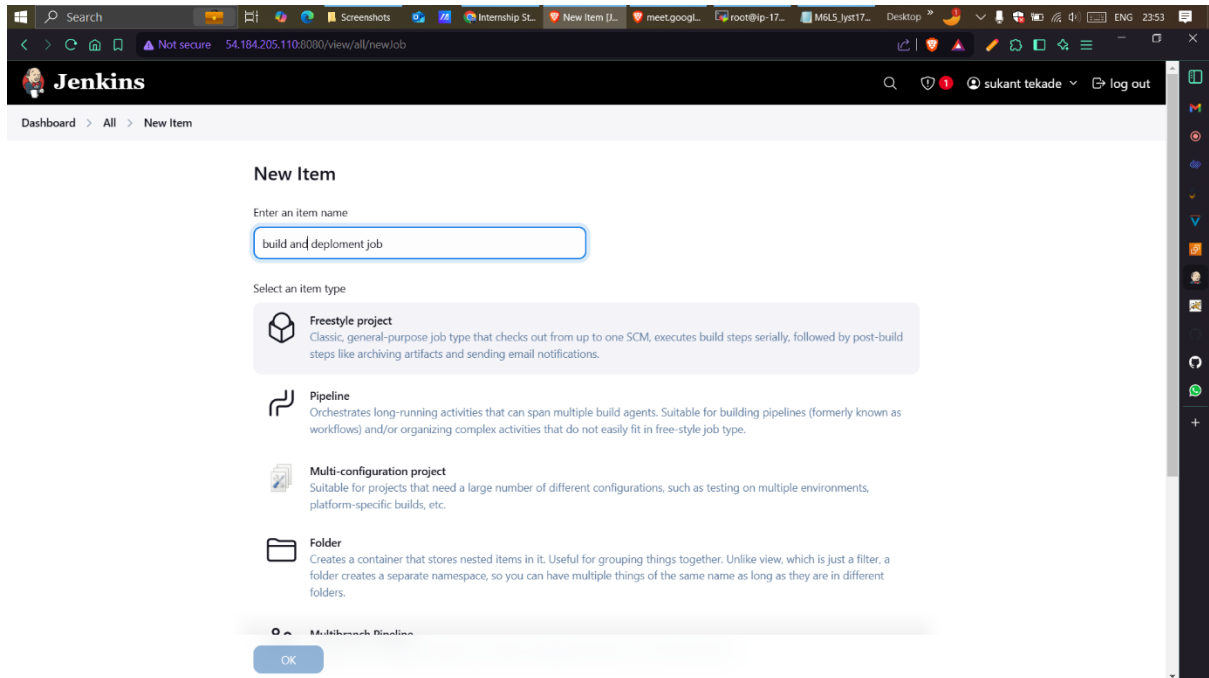
- Jenkins Dashboard → Manage Jenkins → Global Tool Configuration.
- Configure:
 - **JDK:** Add JDK path.
 - **Git:** Ensure Git is installed.
 - **Maven:** Add Maven path.

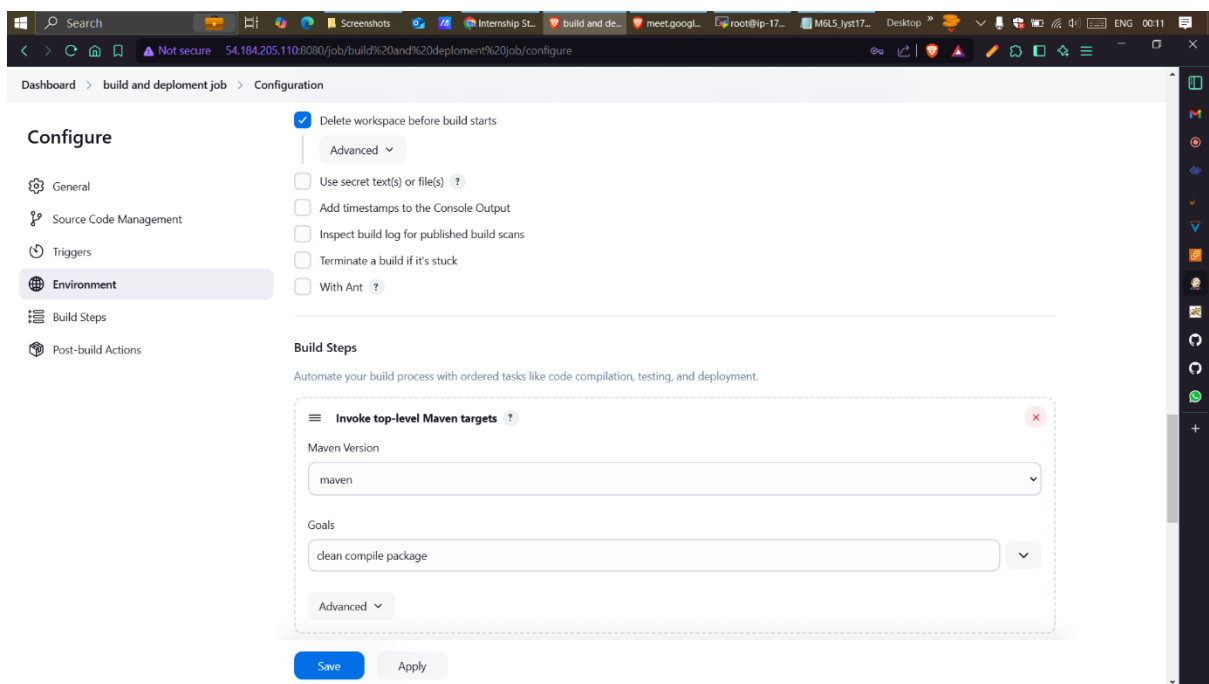
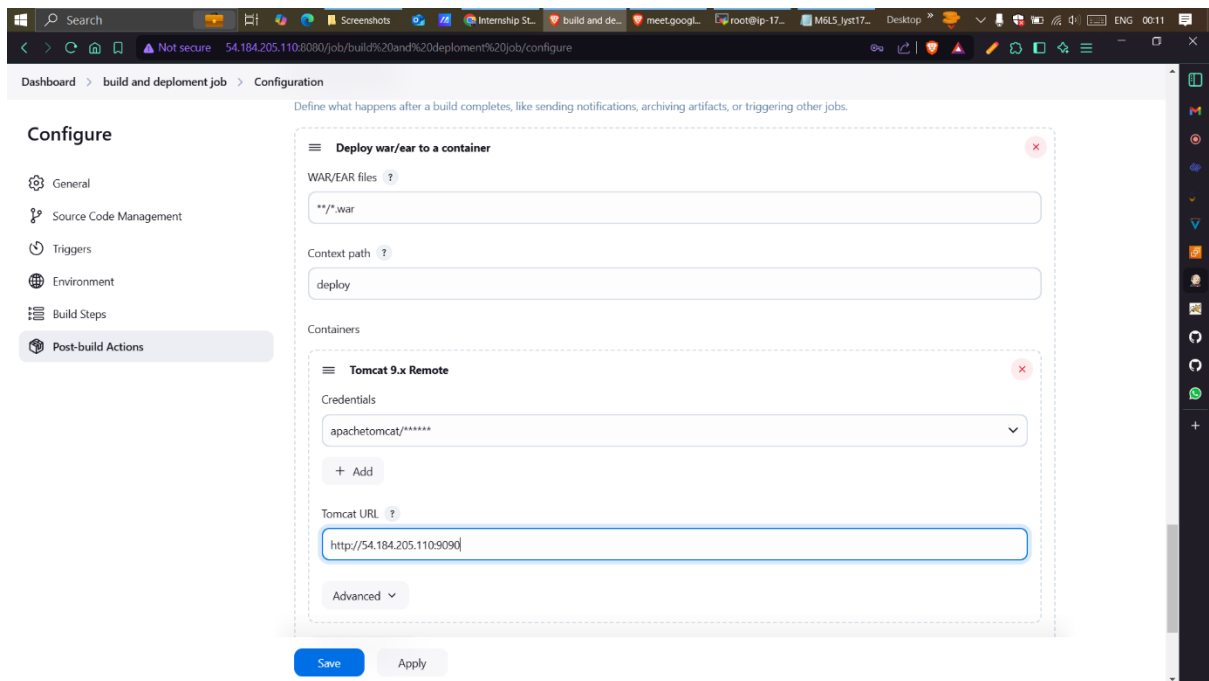
Step: Create Jenkins Job for Automated Deployment

1. Jenkins Dashboard → New Item → Enter Job Name: Build and Deployment Job → Select "Freestyle Project" → OK.
2. Configure Source Code Management:
 - GitHub Repository URL:
"https://github.com/sukant8815/Internship-Studio-Project.git"
3. Configure Build Steps:
 - Add Build Step → Invoke top-level Maven targets.
 - Goal: **clean compile package**.
4. Configure Post-Build Deployment:
 - Add Post-Build Action → Deploy war/ear to a container.
 - WAR/EAR files: ****/*.war**.
 - Credential: user- apachetomcat | passwd- tomcat123
 - Container:
 - Container Type: Tomcat 9.x.
 - Manager URL: **http://<public-ip>:9090**
5. Save and Apply Changes.



```
root@ip-172-31-46-238:/var/lib/jenkins/workspace/build-job
/var/lib/jenkins/workspace/build-job# pwd
/var/lib/jenkins/workspace/build-job
/var/lib/jenkins/workspace/build-job# ll
total 4
-rw-r--r-- 1 jenkins jenkins 1075 Mar 5 17:31 pom.xml
drwxr-xr-x 3 jenkins jenkins 18 Mar 5 17:31 src
drwxr-xr-x 4 jenkins jenkins 68 Mar 5 17:31 target
/var/lib/jenkins/workspace/build-job# ll target
total 8
drwxr-xr-x 4 jenkins jenkins 89 Mar 5 17:31 Kastro-app
-rw-r--r-- 1 jenkins jenkins 4421 Mar 5 17:31 Kastro-app.war
drwxr-xr-x 2 jenkins jenkins 28 Mar 5 17:31 maven-archiver
/var/lib/jenkins/workspace/build-job#
```





Step: Build Console Output

The image shows two screenshots of the Jenkins web interface. The top screenshot displays the console output for build #3 of the 'build and deployment job'. The output shows the process of cloning a Git repository, checking out a specific revision, and preparing the build environment. The bottom screenshot shows the console output for build #1, which includes Maven build logs for a web application, showing compilation, packaging, and successful deployment to a container.

Build #3 Console Output:

```
Started by user sukant tekade
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/build and deployment job
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] Done
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Sukant8815/Internship-Studio-Project.git
> git init /var/lib/jenkins/workspace/build and deployment job # timeout=10
Fetching upstream changes from https://github.com/Sukant8815/Internship-Studio-Project.git
> git --version # timeout=10
> git --version # 'git version 2.47.1'
> git fetch --tags --force --progress -- https://github.com/Sukant8815/Internship-Studio-Project.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/Sukant8815/Internship-Studio-Project.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
Seen branch in repository origin/main
Seen 1 remote branch
> git show-ref --tags -d # timeout=10
Checking out Revision 784386f9e53a67a1617f24b845b97adcc204b86e (origin/main)
> git config core.sparse
> git checkout -f 784386f9e53a67a1617f24b845b97adcc204b86e
```

Build #1 Console Output:

```
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /var/lib/jenkins/workspace/build and deployment job/src/test/resources
[INFO]
[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ 02-maven-web-app ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ 02-maven-web-app ---
[INFO] No tests to run.
[INFO]
[INFO] --- war:3.3.1:war (default-war) @ 02-maven-web-app ---
[INFO] Packaging webapp
[INFO] Assembling webapp [02-maven-web-app] in [/var/lib/jenkins/workspace/build and deployment job/target/Kastro-app]
[INFO] Processing war project
[INFO] Copying webapp resources [/var/lib/jenkins/workspace/build and deployment job/src/main/webapp]
[INFO] Building war: /var/lib/jenkins/workspace/build and deployment job/target/Kastro-app.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.478 s
[INFO] Finished at: 2025-03-05T18:43:17Z
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying /var/lib/jenkins/workspace/build and deployment job/target/Kastro-app.war to container Tomcat 9.x
Remote with context deploy
[/var/lib/jenkins/workspace/build and deployment job/target/Kastro-app.war] is not deployed. Doing a fresh deployment.
Deploying [/var/lib/jenkins/workspace/build and deployment job/target/Kastro-app.war]
Finished: SUCCESS
```

REST API Jenkins 2.492.2

Step: War file get deployed to tomcat

The screenshot shows the Tomcat Web Application Manager interface in a web browser. The browser's address bar shows the URL `54.184.205.110:9090/manager/html`. The page features the Apache Software Foundation logo and a message box that says "Message: OK". Below the message box, there are links for "List Applications", "HTML Manager Help", "Manager Help", and "Server Status". The main section is titled "Applications" and contains a table with the following data:

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/deploy	None specified	Archetype Created Web Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Below the table, there is a "Deploy" section with the text "Deploy directory or WAR file located on server" and a "Control Path:" label.

Final Result:

The screenshot shows a web page with the following content:

AWS DevOps Enthusiast !

My name is **Sukant Tekade**, I am an **AWS and DevOps Trainee**.

My aim is to become a DevOps Engineer:

AWS Skills: Introduction to Cloud, Cloud Service Providers, AWS Global Infrastructure, S3, EFS, EC2, Auto Scaling, Load Balancers, VPC, IAM, RDS, Dynamo DB, SNS, Cloud Watch, LighSail, Cloud Trial, SQS, SES, Route 53, SnowBall, Elastic BeanStalk, Cloud Formation

Linux and Shell Scripting

DevOps Skills: System Architecture, Introduction to DevOps, SDLC - Concept & Models, Maven, Git, GitHub, Tomcat, Jenkins, Docker, Kubernetes, Terraform, Ansible, SonarQube

Below the text, there are three buttons: "Email", "Github", and "tekadesukant - LinkedIn".

At the bottom of the page, there is a black bar with the text "meet.google.com is sharing your screen." and a "Stop sharing" button.