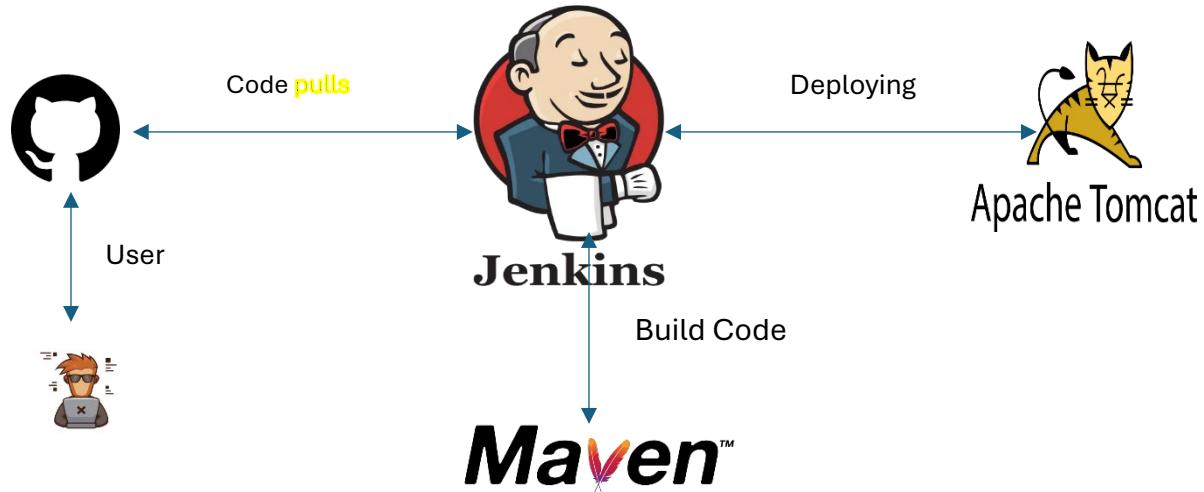


DEVOPS PROJECT – JAVA BASE APPLICATION DEPLOYING IN TOMCAT SERVER CI/CD

Using OS :- Kali linux

Creating Two VM :- (VM-1= Jenkins- Server),(VM-2=Tomcat-Server)



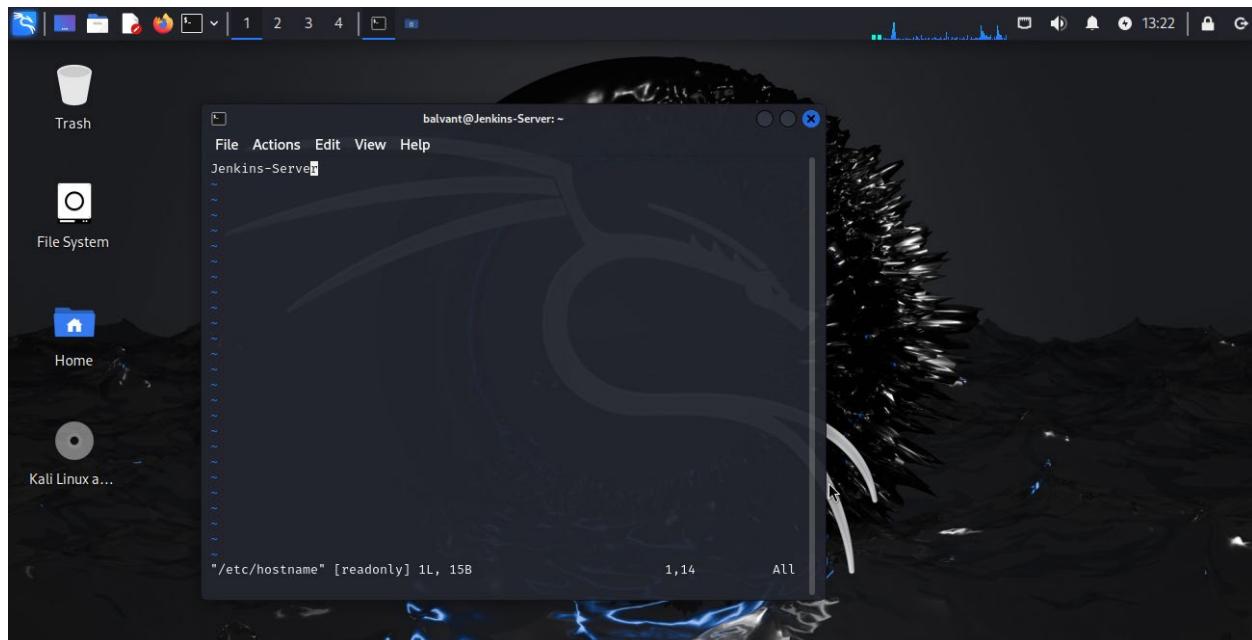
VM-1 CMD

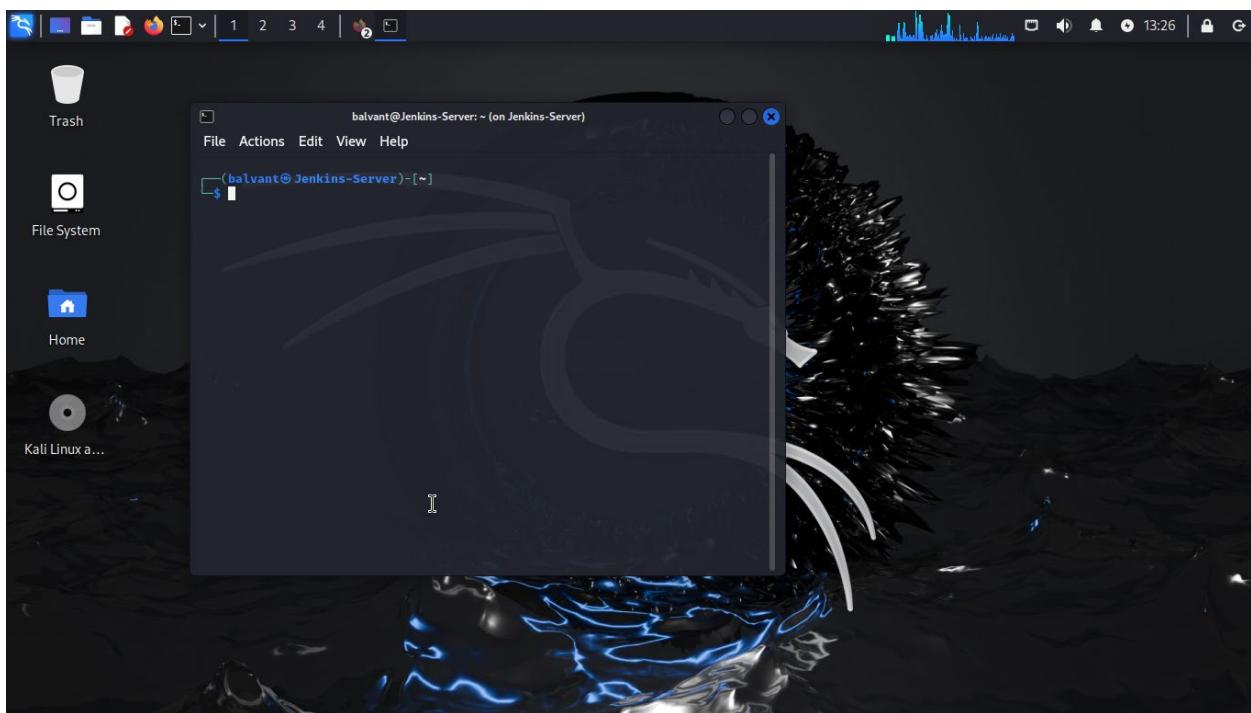
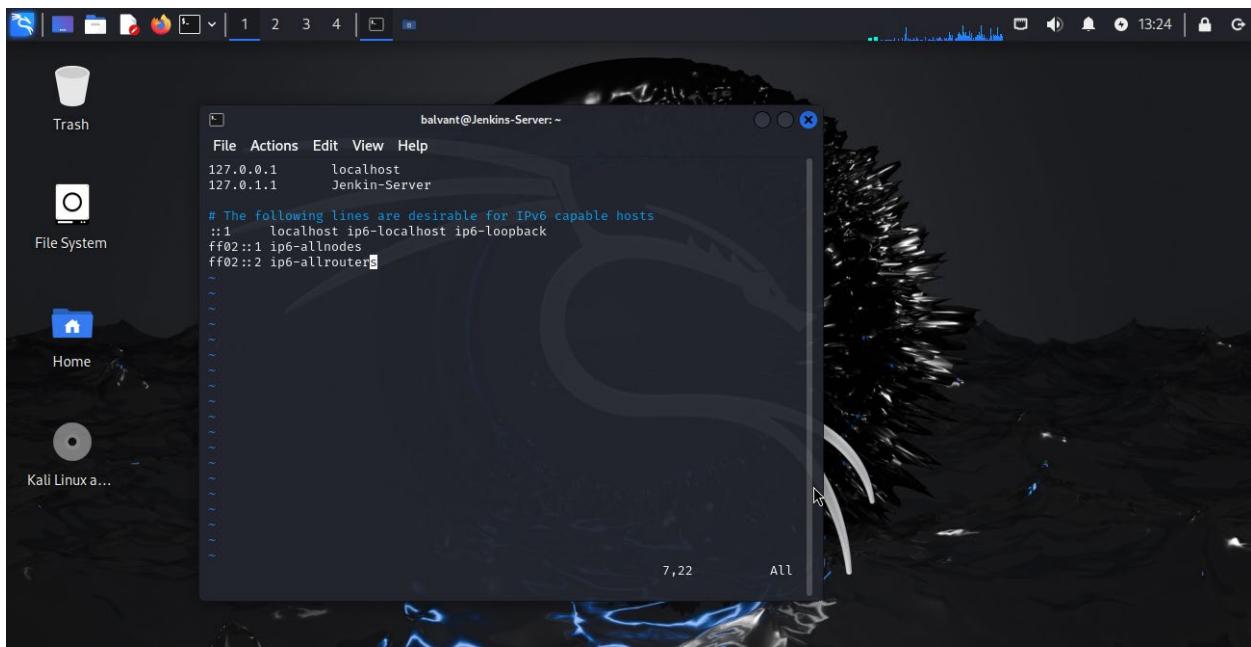
STEP-1

hostname Jenkins-Server

Vim /etc/hosts same

Vim /etc/hosts





STEP-2

Installing Java

Sudo apt update && sudo apt install openjdk-11-jdk

Java -version

```

root@Jenkins-Server:/etc/default (on Jenkins-Server)
# apt update
# apt install openjdk
Get:1 http://kali.download/kali kali-rolling InRelease [41.5 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [20.5 MB]
Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [49.1 kB]
Get:4 http://kali.download/kali kali-rolling/contrib amd64 Packages [114 kB]
Get:5 http://kali.download/kali kali-rolling/contrib amd64 Contents (deb) [26.6 kB]
Get:6 http://kali.download/kali kali-rolling/non-free amd64 Packages [196 kB]
Get:7 http://kali.download/kali kali-rolling/non-free amd64 Contents (deb) [8.78 kB]
Get:8 http://kali.download/kali kali-rolling/non-free-firmware amd64 Packages [10.6 kB]
Get:9 http://kali.download/kali kali-rolling/non-free-firmware amd64 Contents (deb) [24.2 kB]
Fetched 71.1 MB in 12s (5097 kB/s)
2124 packages can be upgraded. Run 'apt list --upgradable' to see them.
Error: Unable to locate package openjdk

root@Jenkins-Server-:~/home/balvant]
# java version
Error: Could not find or load main class version
Caused by: java.lang.ClassNotFoundException: version

root@Jenkins-Server-:~/home/balvant]
# java -version
openjdk version "21.0.3" 2024-04-16

```

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Installing Jenkins

`sudo wget -O /usr/share/keyrings/jenkins-keyring.asc`

`https://pkg.jenkins.io/debian/jenkins.io-2023.key`

`echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \`

`/etc/apt/sources.list.d/jenkins.list > /dev/null`

`sudo apt-get update`

`sudo apt-get install Jenkins`

```

root@Jenkins-Server-:~/home/balvant]
# java -version
openjdk version "21.0.3" 2024-04-16
OpenJDK Runtime Environment (build 21.0.3+9-Debian-2)
OpenJDK 64-Bit Server VM (build 21.0.3+9-Debian-2, mixed mode, sharing)

root@Jenkins-Server-:~/home/balvant]
# sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \
/etc/apt/sources.list.d/jenkins.list > /dev/null
Planning to Production
sudo apt-get update
sudo apt-get install jenkins
--2025-02-24 13:43:28-- https://pkg.jenkins.io/debian/jenkins.io-2023.key
Resolving pkg.jenkins.io (pkg.jenkins.io)... 199.232.22.133, 2a04:4e42::645,
2a04:4e42:200::645, ...
Connecting to pkg.jenkins.io (pkg.jenkins.io)|199.232.22.133|:443... connected
d.
HTTP request sent, awaiting response ... 200 OK
Length: 3175 (3.1K) [application/pgp-keys]
Saving to: '/usr/share/keyrings/jenkins-keyring.asc'

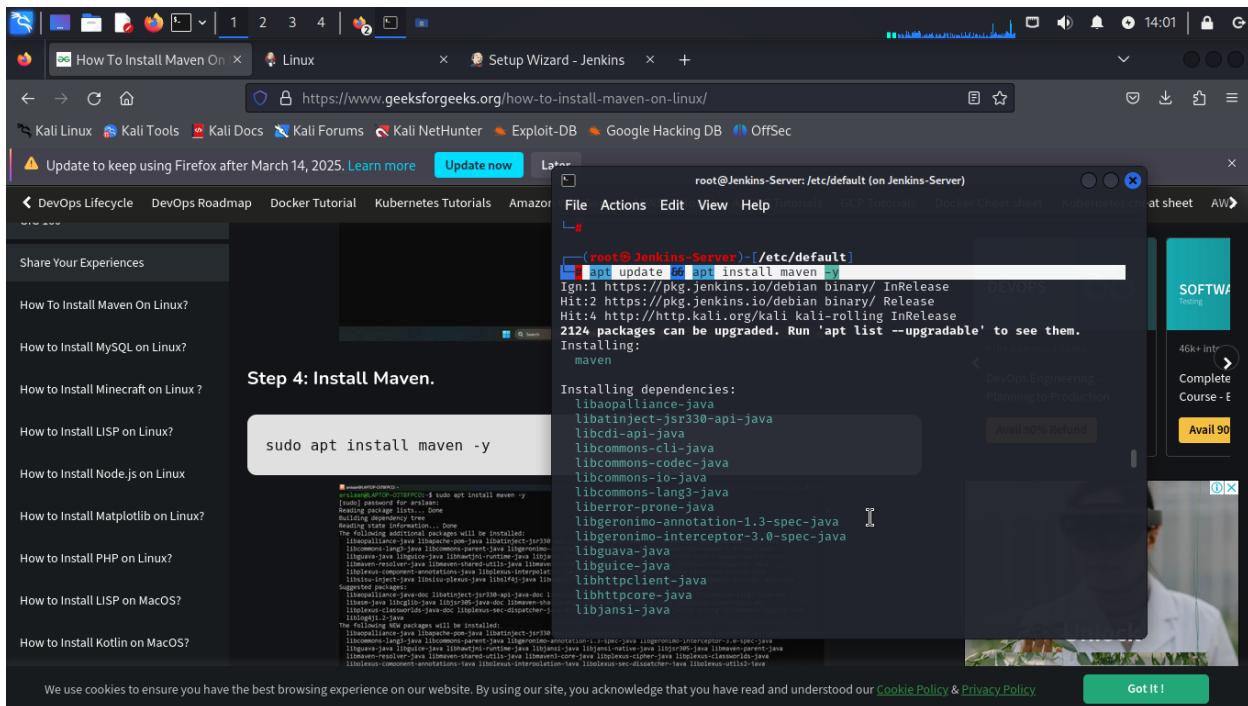
/usr/share/keyrings 100%[=====] 3.10K --.-KB/s in 0s
2025-02-24 13:43:29 (8.37 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' s

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```

Installing Maven

Sudo apt update && sudo apt install maven



```
root@Jenkins-Server:/etc/default (on Jenkins-Server)
# apt update && apt install maven
Ign:1 https://pkg.jenkins.io/debian binary/ InRelease
Hit:2 https://pkg.jenkins.io/debian binary/ Release
Hit:4 http://http.kali.org/kali kali-rolling InRelease
2324 packages can be upgraded. Run 'apt list --upgradable' to see them.
Installing:
maven

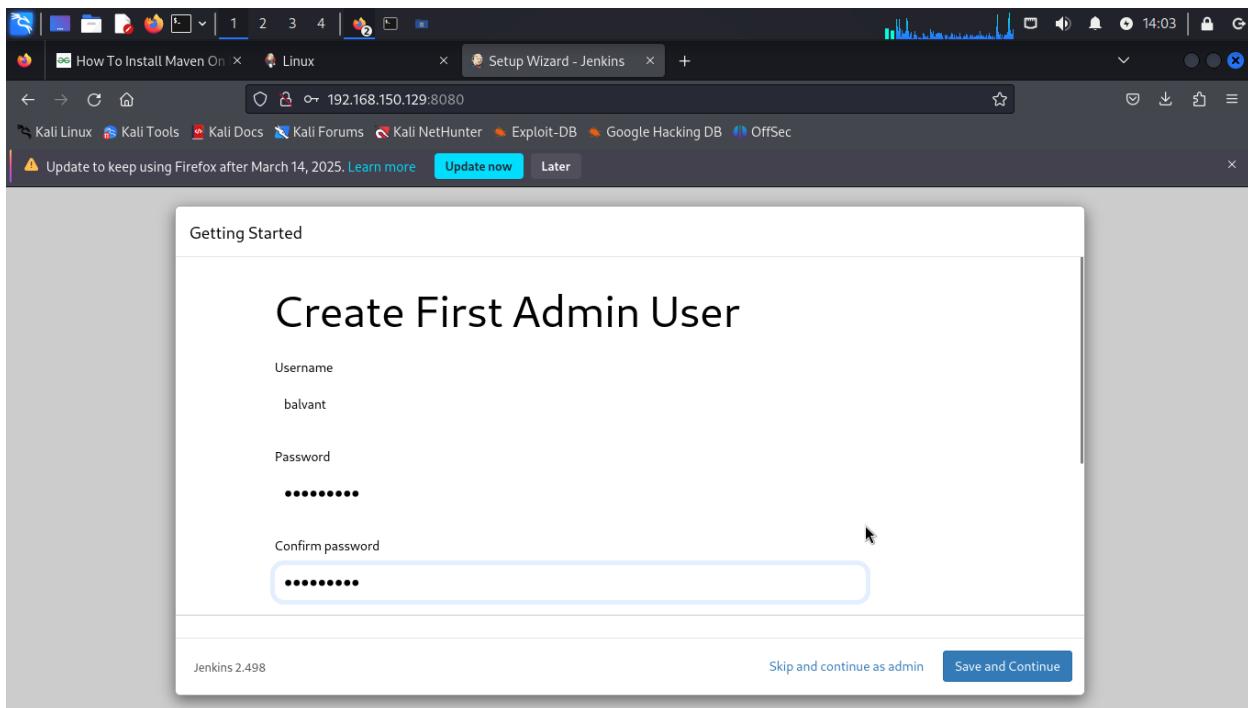
Installing dependencies:
libapaliance-java
libatinject-jsr330-api-java
libcdi-api-java
libcommons-cli-java
libcommons-codec-java
libcommons-io-java
libcommons-lang3-java
liberror-prone-java
libgeronimo-annotation-1.3-spec-java
libgeronimo-interceptor-3.0-spec-java
libguava-java
libguice-java
libhttpclient-java
libhttpcore-java
libjansi-java

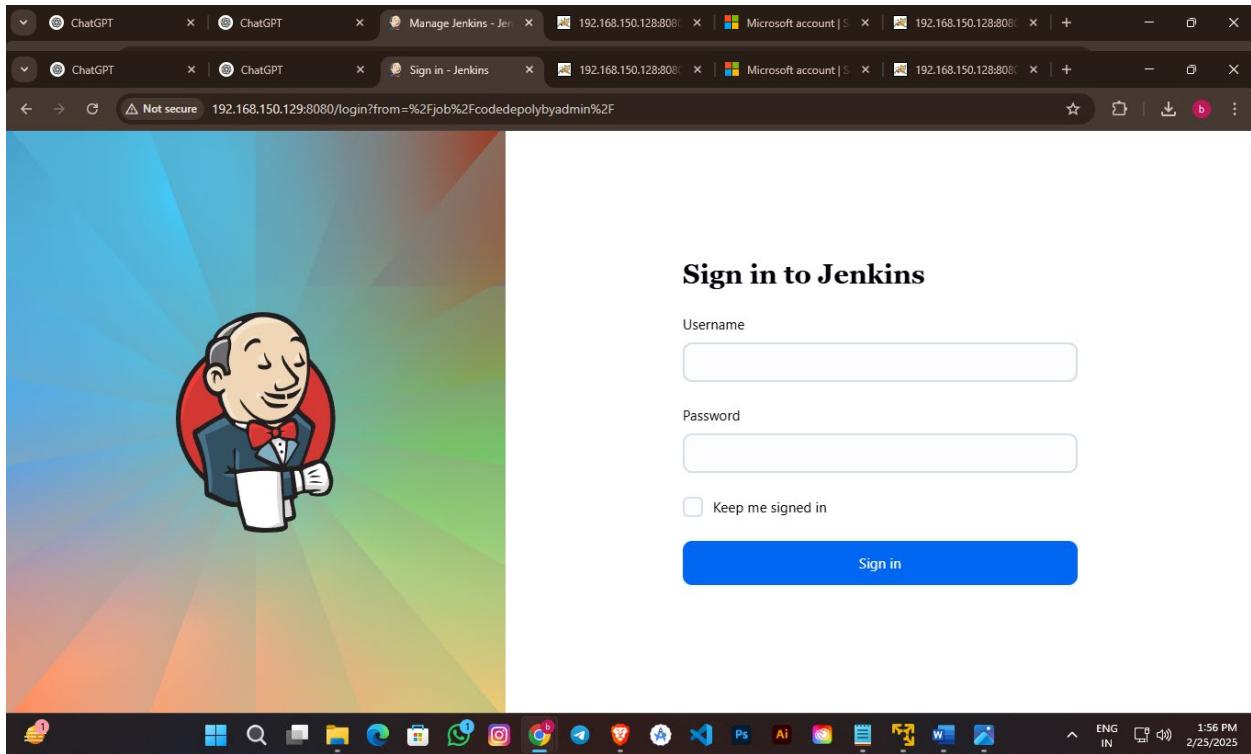
Suggested packages:
libavro-doc libfastinfoset-jar30-api-1eav-doc
libjemalloc1 libjline2 libjnr-ffi-doc libjna-shrplib
liblog4j1.2-java
libmanagement-java libosgi-core-dispatcher-jar
The following packages will be installed:
libapaliance-java libatinject-jsr330-api-1eav-doc
libcdi-api-java libcommons-cli-java libcommons-codec-java
libcommons-io-java libcommons-lang3-java liberror-prone-java
libguava-java libguice-java libhttpclient-java libhttpcore-java
libjansi-java

0 upgraded, 23 new packages installed, 0 removed and 0
not upgraded.
Need to get 0B/10.2 MB of archives.
After this operation, 46.1 MB of additional disk space will be used.
```

STEP -3

Ip addr (copy ip & browse ip:8080)





Jenkins Plugins:- Manage Jenkins – plugins – Available Plugins – Maven Integration (install)

Jenkins Plugins:- Manage Jenkins – plugins – Installed plugin - Github branch source(uncheck)

A screenshot of the Jenkins plugin manager interface. The 'Installed' tab is selected. A search bar at the top contains the text 'maven'. Below the search bar, a table lists the 'Maven Integration plugin' version 3.25. The table has columns for 'Name', 'Version', and 'Enabled'. The 'Enabled' column for the Maven Integration plugin has a green checkmark. There is also a red 'X' icon next to the checkmark. The taskbar at the bottom shows various application icons.

The screenshot shows the Jenkins 'Plugins' management interface. On the left, a sidebar lists 'Updates', 'Available plugins', 'Installed plugins' (which is selected), and 'Advanced settings'. The main area is titled 'Plugs' and contains a search bar with 'git' typed in. Below the search bar, a message says 'Report an issue with this plugin'. A list of five Git-related plugins is shown, each with an enable/disable switch and a red 'x' icon:

- Git plugin** 5.7.0: This plugin integrates Git with Jenkins. Status: Enabled.
- GitHub API Plugin** 1.321-478.vc9ce627ce001: This plugin provides GitHub API for other plugins. Status: Enabled.
- GitHub Branch Source Plugin** 1810.v913311241fa_9: Multibranch projects and organization folders from GitHub. Maintained by CloudBees, Inc. Status: Disabled.
- GitHub plugin** 1.42.0: This plugin integrates GitHub to Jenkins. Status: Enabled.
- Pipeline: GitHub Groovy Libraries** 65.v203688e7727e: Allows Pipeline Groovy libraries to be loaded on the fly from GitHub. Status: Enabled.

Jenkins Plugins:- Manage Jenkins - Tools – add JDK -add MAVEN – apply -save

The screenshot shows the Jenkins 'Manage Jenkins' configuration page. On the left, a sidebar lists 'New Item', 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins' (which is selected), and 'My Views'. The main area is titled 'Manage Jenkins' and contains several configuration sections:

- System Configuration**: Includes 'System' (Configure global settings and paths), 'Nodes' (Add, remove, control and monitor the various nodes that Jenkins runs jobs on), 'Clouds' (Add, remove, and configure cloud instances to provision agents on-demand), and 'Security' (Secure Jenkins: define who is).
- Tools**: Configure tools, their locations and automatic installers.
- Plugins**: Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
- Appearance**: Configure the look and feel of Jenkins.
- Credential Providers**: Configure the credential.

Java Path

```
root@Jenkins-Server:/home/balvant
File Actions Edit View Help
find: '/var/lib/openvas/gnupg': Permission denied
^C

(balvant@Jenkins-Server)~
$ sudo find / -name java-11
root
sudo: unable to resolve host Jenkins-Server: Name or service not known
[sudo] password for balvant:
find: '/run/user/1000/gvfs': Permission denied
^C

(balvant@Jenkins-Server)~
$ sudo su
root
roodo: unable to resolve host Jenkins-Server: Name or service not known
root
[root@Jenkins-Server]~
# find / -name java-11*
find: '/run/user/1000/gvfs': Permission denied
/etc/java-11-openjdk
/usr/share/gdb/auto-load/usr/lib/jvm/java-11-openjdk-amd64
/usr/share/icons/Flat-Remix-Blue-Dark/apps/scalable/java-11-openjdk.svg
/usr/lib/jvm/java-11-openjdk-amd64
/usr/lib/debug/usr/lib/jvm/java-11-openjdk-amd64

[root@Jenkins-Server]~
```

Dashboard > Manage Jenkins > Tools

JDK installations ▾ Edited

Add JDK

JDK

Name: Java11

JAVA_HOME: /usr/lib/jvm/java-11-openjdk-amd64

Install automatically ?

Add JDK

Save Apply

Maven Path

```
root@Jenkins-Server:/usr/share
File Actions Edit View Help
legion          xml
libaudio2       xml-core
libc-bin        xrdp
libdbi-perl    xsessions
libdrm          yelp
libffado2      yelp-xsl
libgcrypt20    zoneinfo
libimage-exiftool-perl  zsh
libinput        zsh-autosuggestions
liblouis        zsh-syntax-highlighting
libmysofa

(root@Jenkins-Server)-[/usr/share]
# cat mvn
cat: mvn: No such file or directory

(root@Jenkins-Server)-[/usr/share]
# mvn -version
Apache Maven 3.9.9
Maven home: /usr/share/maven
Java version: 21.0.3, vendor: Debian, runtime: /usr/lib/jvm/java-21-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.6.15-amd64", arch: "amd64", family: "unix"

(root@Jenkins-Server)-[/usr/share]
#
```

Dashboard > Manage Jenkins > Tools

Maven installations

Maven installations

Maven

Name: maven

MAVEN_HOME: /usr/share/maven

Install automatically ?

Installing Git

Sudo apt update && apt install git

```

root@Jenkins-Server:/usr/lib/jvm
File Actions Edit View Help
Apache Maven 3.9.9
Maven home: /usr/share/maven
Java version: 21.0.3, vendor: Debian, runtime: /usr/lib/jvm/java-21-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.6.15-amd64", arch: "amd64", family: "unix"

root@Jenkins-Server:[/usr/lib/jvm]
apt install git
Upgrading:
git git-man

Summary:
Upgrading: 2, Installing: 0, Removing: 0, Not Upgrading: 2122
Download size: 11.0 MB
Space needed: 2318 kB / 3843 MB available

Continue? [Y/n] y
Get:1 http://mirror.aktm.kali kali kali-rolling/main amd64 git amd64 1:2.47.2-0.1 [8788 kB]
Get:2 http://kali.download/kali kali kali-rolling/main amd64 git-man all 1:2.47.2-0.1 [2205 kB]
Fetched 11.0 MB in 6s (1816 kB/s)

```

Jenkins :- New Item – select github – add git hub repository (Branch – Main) – build - pom.xml – Gols and Options(clean install) – apply -save

New Item

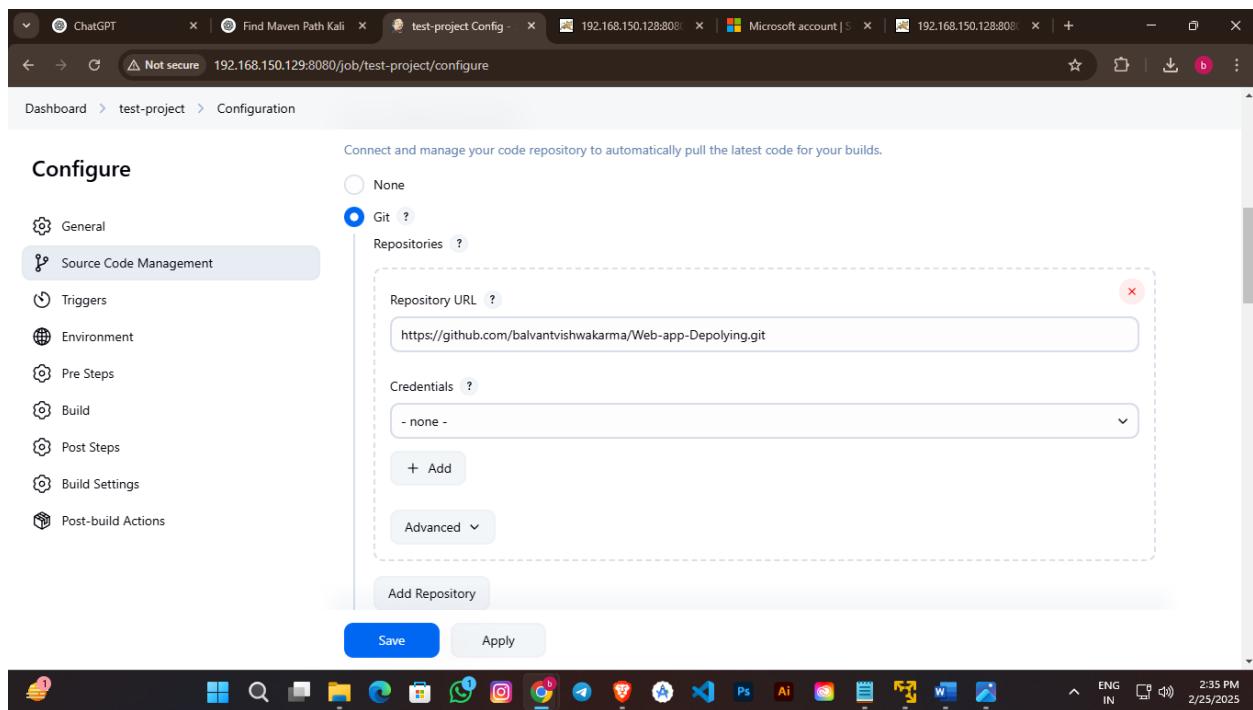
Enter an item name

» A job already exists with the name 'test-project'

Select an item type

- Freestyle project**
Classic general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
- Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

OK



Bulid

A screenshot of a web browser showing the Jenkins build status page for the "test-project". The "Build Now" button is selected in the sidebar. The main area displays the "Maven project test-project" status, showing "test -project" and "Latest Test Result (no failures)". A "Test Result Trend" chart shows two successful builds. The "Builds" section lists the most recent build (#9) from 11:09 AM. The bottom status bar shows the URL "192.168.150.129:8080/job/test-project/build?delay=0sec" and the Jenkins version "Jenkins 2.498".

STEP-4

VM-2 :- Java & Installing Tomcat

Sudo apt update && apt install openjdk-11-jdk

Cd /opt

wget <https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.21/bin/apache-tomcat-9.0.21.tar.gz>

The screenshot shows a terminal window titled 'root@Tomcat-Server:/opt' on a Kali Linux system. The user has navigated to the '/opt' directory and is downloading the Apache Tomcat 9.0.21 package from the official Apache archive. The command used is 'wget https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.21/bin/apache-tomcat-9.0.21.tar.gz'. The terminal output shows the progress of the download, including the file size (10874669 bytes) and the download speed (1.59MB/s). Once the download is complete, the user runs 'ls' to list the contents of the directory, which includes the downloaded tar file. The terminal window is part of a desktop environment with other windows visible in the background.

```
root@Tomcat-Server:/opt
# ls
apache-tomcat-9.0.21.tar.gz

(root@Tomcat-Server:/opt)
# wget https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.21/bin/apache-tomcat-9.0.21.tar.gz
--2025-02-24 16:22:46-- https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.21/bin/apache-tomcat-9.0.21.tar.gz
Resolving archive.apache.org (archive.apache.org)... 65.108.204.189, 2a01:4f9:1:a084::2
Connecting to archive.apache.org (archive.apache.org)|65.108.204.189|:443...
Connected.
HTTP request sent, awaiting response... 200 OK
Length: 10874669 (10M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.21.tar.gz'

apache-tomcat-9.0.2 100%[=====] 10.37M 1.59MB/s in 7.1s
2025-02-24 16:22:54 (1.46 MB/s) - 'apache-tomcat-9.0.21.tar.gz' saved [10874669]

(root@Tomcat-Server:/opt)
#
```

Step 4 – Change Permission and Ownership of the Tomcat home directory

Next, we will modify ownership and permission of `/opt/tomcat` directory. We will also give execute permission to `opt/tomcat/bin` directory.

Sudo tar -xvzf apache-tomcat-9.0.21.tar.gz

```
root@Tomcat-Server:/opt/apache-tomcat-9.0.21/bin
File Actions Edit View Help
:1:a084::2
Connecting to archive.apache.org (archive.apache.org)|65.108.204.189|:443 ...
connected.
HTTP request sent, awaiting response ... 200 OK
Length: 10874669 (10M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.21.tar.gz'  Tomcat 9.0.21 package to that location.
apache-tomcat-9.0.2 100%[=====] 10.37M 1.59MB/s   in 7.1s
2025-02-24 16:22:54 (1.46 MB/s) - 'apache-tomcat-9.0.21.tar.gz' saved [10874669]

[root@Tomcat-Server]-(/opt)
# sudo tar -xvzf apache-tomcat-9.0.66.tar.gz

sudo: unable to resolve host Tomcat-Server: Name or service not known
tar (child): apache-tomcat-9.0.66.tar.gz: Cannot open: No such file or direct
ory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now

[root@Tomcat-Server]-(/opt)
[root@Tomcat-Server]-(/opt)
# ls
apache-tomcat-9.0.21.tar.gz  microsoft

[root@Tomcat-Server]-(/opt)
# sudo tar -xvzf apache-tomcat-9.0.21.tar.gz
sudo: unable to resolve host Tomcat-Server: Name or service not known
apache-tomcat-9.0.21/conf/
apache-tomcat-9.0.21/conf/catalina.policy
apache-tomcat-9.0.21/conf/catalina.properties
apache-tomcat-9.0.21/conf/context.xml
apache-tomcat-9.0.21/conf/jaspic-providers.xml
apache-tomcat-9.0.21/conf/jaspic-providers.xsd
apache-tomcat-9.0.21/conf/logging.properties
apache-tomcat-9.0.21/conf/server.xml
apache-tomcat-9.0.21/conf/tomcat-users.xml

4 — Change Permission and Ownership of the Tomcat home directory

Next, we will modify ownership and permission of /opt/tomcat directory. We
```

```
cd /opt/apache-tomcat-9.0.21/bin
```

```
vim /opt/apache-tomcat-9.0.21/webapps/host-manager/META-INF/context.xml
```

```
vim /opt/apache-tomcat-9.0.21/webapps/manager/META-INF/context.xml
```

```
root@Tomacat-Server:/opt/apache-tomcat-9.0.21/bin
File Actions Edit View Help
<?xml version="1.0" encoding="UTF-8"?> https://medium.com/install-tomcat-on-linux-2045d951c5a
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 -->
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
<Context antiResourceLocking="false" privileged="true" >
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve" allow="127.0.0.1::1|0:0:0:0:0:0:1" /> -->
<Manager sessionAttributeValueClassNameFilter="java.lang.(?:Boolean|Integer|Long|Number|String)|org.apache.catalina.filters.CsrfPreventionFilter$HttpCache(?:\$|java.util.(?:Linked)?HashMap)" />
</Context>
Extract the tar package and rename the extracted directory to tomcat
-- (insert) VISUAL --
2 20,54 All
```

```
root@Tomacat-Server:/opt/apache-tomcat-9.0.21/bin
File Actions Edit View Help
/opt/apache-tomcat-9.0.21/conf/context.xml
find: '/run/user/1000/gvfs': Permission denied
find: '/run/user/1000/doc': Permission denied
[root@Tomacat-Server] -> /opt/apache-tomcat-9.0.21/bin Tomcat to /opt directory. So we will download the
# vim /opt/apache-tomcat-9.0.21/webapps/host-manager/META-INF/context.xml
[root@Tomacat-Server] -> /opt/apache-tomcat-9.0.21/bin Change directory to /opt and download Tomcat 9 to that directory.
# vim /opt/apache-tomcat-9.0.21/webapps/host-manager/META-INF/context.xml
[root@Tomacat-Server] -> /opt/apache-tomcat-9.0.21/bin
# ./shutdown.sh
Using CATALINA_BASE:  /opt/apache-tomcat-9.0.21
Using CATALINA_HOME:  /opt/apache-tomcat-9.0.21
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.21/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/apache-tomcat-9.0.21/bin/bootstrap.jar:/opt/apache-tomcat-9.0.21/bin/tomcat-juli.jar
NOTE: Picked up JDK_JAVA_OPTIONS: --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED
[root@Tomacat-Server] -> /opt/apache-tomcat-9.0.21/bin Extract the tar package and rename the extracted directory to tomcat
# ./startup.sh
Using CATALINA_BASE:  /opt/apache-tomcat-9.0.21
Using CATALINA_HOME:  /opt/apache-tomcat-9.0.21
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.21/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/apache-tomcat-9.0.21/bin/bootstrap.jar:/opt/apache-tomcat-9.0.21/bin/tomcat-juli.jar
Tomcat started.
# sudo tar -xvf apache-tomcat-9.0.21.tar.gz
# sudo mv apache-tomcat-9.0.21 /opt/tomcat
[root@Tomacat-Server] -> /opt/apache-tomcat-9.0.21/bin
```

vim /opt/apache-tomcat-9.0.21/conf/tomcat-users.xml

```

root@Tomcat-Server:/opt/apache-tomcat-9.0.21/conf
File Actions Edit View Help
you must define such a user - the username and password are arbitrary. It is
strongly recommended that you do NOT use one of the users in the commented
out section below since they are intended for use with the examples web
application.
→
→
NOTE: The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!.. ..> that surrounds
them. You will also need to set the passwords to something appropriate.
→
<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<user username="admin" password="admin" roles="manager-gui, manager-script,
manager-jmx, manager-status"/>
<user username="deployer" password="deployer" roles="manager-script"/>
<user username="tomcat" password="s3cret" roles="manager-gui"/>

```

Ip addr (copy ip and Browse – ip:8080)

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

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

Release Notes
[Changelog](#)

Documentation
[Tomcat 9.0 Documentation](#)
[Tomcat 9.0 Configuration](#)
[Tomcat Wiki](#)
Find additional important configuration information in:
[\\$CATALINA_HOME/RUNNING.txt](#)
Developers may be interested in:

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

Integration Tomcat server with Jenkins

Jenkins Plugins:- Manage Jenkins – plugins – Available Plugins - Deploy to container (install)

The screenshot shows the Jenkins Plugins management interface. On the left, there's a sidebar with links: Updates, Available plugins, Installed plugins (which is selected and highlighted in grey), and Advanced settings. A search bar at the top right contains the text "deploy". In the main area, a table lists the "Deploy to container Plugin 1.16". The table columns are Name, Description, Enabled, and Actions. The "Enabled" column shows "Enabled" with a green checkmark. The "Actions" column contains a blue gear icon and a red X icon. The "Description" column provides details: "This plugin allows you to deploy a war to a container after a successful build. Glassfish 3.x remote deployment".

Jenkins - Manage Jenkins - Credentials - System - Global credentials (unrestricted)- add Credentials

The screenshot shows the Jenkins Credentials management interface. The URL in the browser is "192.168.150.129:8080/manage/credentials/store/system/domain/_/credential/credentials-admin/update". The page title is "Update credentials - Jenkins". The breadcrumb navigation shows: Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) > admin/******/ (credentials-admin). There are tabs for "update" and "Delete". Below the tabs, there are fields for "Scope" (set to "Global (Jenkins, nodes, items, all child items, etc)"), "Username" (set to "admin"), and "Password" (a masked password field). There is also a checkbox for "Treat username as secret". Below these, there are fields for "ID" (set to "credentials-admin") and "Description" (set to "credentials-admin"). At the bottom is a "Save" button.

Jenkins – New Item -maven- ok

Dashboard > All > New Item

Enter an item name
codedepolybyadmin

» A job already exists with the name 'codedepolybyadmin'

Select an item type

- Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
- Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

Jenkins

Dashboard > codedepolybyadmin > Configuration

Configure

General

Enabled

Description
code-deployby-admin

Plain text [Preview](#)

Discard old builds ?

GitHub project

This project is parameterized ?

Throttle builds ?

Save Apply

The screenshot shows the Jenkins configuration interface for a job named "codedepolybyadmin". The "Source Code Management" section is selected. A Git repository is configured with the URL <https://github.com/balvantvishwakarma/Web-app-Deploying.git>. The "Credentials" dropdown is set to "- none -". The "Branches to build" section specifies the branch specifier `*/main`. The "Repository browser" is set to "(Auto)". The "Save" and "Apply" buttons are visible at the bottom.

Configure

General

Source Code Management

Triggers

Environment

Pre Steps

Build

Post Steps

Build Settings

Post-build Actions

Repositories

Repository URL ?

https://github.com/balvantvishwakarma/Web-app-Deploying.git

Credentials ?

- none -

+ Add

Advanced

Add Repository

Save Apply

Configure

General

Source Code Management

Triggers

Environment

Pre Steps

Build

Post Steps

Build Settings

Post-build Actions

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Save Apply

The screenshot shows the Jenkins job configuration interface for a job named "codedepolybyadmin". The left sidebar lists various configuration sections: General, Source Code Management, Triggers, Environment, Pre Steps, Build, Post Steps, Build Settings, and Post-build Actions. The "Triggers" section is currently selected. It contains several trigger options: "Build whenever a SNAPSHOT dependency is built" (checked), "Schedule build when some upstream has no successful builds", "Trigger builds remotely (e.g., from scripts)", "Build after other projects are built", "Build periodically", and "GitHub hook trigger for GITScm polling". Below these is a "Poll SCM" option (checked) with a "Schedule" field containing "*****". A warning message at the bottom states: "⚠ Do you really mean 'every minute' when you say *****? Perhaps you meant 'H *****' to poll once per hour. Would last have run at Tuesday, February 25, 2025, 3:37:00 PM India Standard Time; would next run at Tuesday, February 25, 2025." At the bottom are "Save" and "Apply" buttons.

The screenshot shows the Jenkins job configuration interface for the same job. The left sidebar shows the "Post-build Actions" section is selected. It contains a "Deploy war/ear to a container" action with "WAR/EAR files" set to "*/war" and "Context path" empty. Below it is a "Tomcat 8.x Remote" action with "Credentials" set to "admin/******** (credentials-admin)". At the bottom are "Save" and "Apply" buttons. The system tray at the bottom right shows the date and time as 2/25/2025, 3:38 PM.

The screenshot shows the Jenkins configuration interface for a job named "codedepolybyadmin". On the left, a sidebar lists various configuration sections: General, Source Code Management, Triggers, Environment, Pre Steps, Build, Post Steps, Build Settings, and Post-build Actions. The "Post-build Actions" section is currently selected. A main panel titled "Containers" contains a single entry for "Tomcat 8.x Remote". This entry includes a "Credentials" dropdown set to "admin/***** (credentials-admin)", a "Tomcat URL" input field containing "http://192.168.150.128:8080/manager/html", and an "Advanced" dropdown. At the bottom of the panel are "Save" and "Apply" buttons. The status bar at the bottom right shows the date and time as 3:40 PM on 2/25/2025.

Jenkins :- select Project and Run (Build)

The screenshot shows the Jenkins dashboard for the "codedepolybyadmin" project. The left sidebar provides navigation links for Status, Changes, Workspace, Build Now, Configure, Delete Maven project, Modules, Git Polling Log, and Rename. The main content area displays the title "Maven project codedepolybyadmin" and the identifier "code-deployby-admin". It features a "Latest Test Result" card indicating "no failures" and a "Test Result Trend" chart showing a green bar from build #7 to #9, with a legend for Passed (green), Skipped (grey), and Failed (red). Below these are "Permalinks" for recent builds and a "Builds" table with a "Filter" search bar. The status bar at the bottom right shows the date and time as 3:43 PM on 2/25/2025.

Now Verify in Tomcat Server

The screenshot shows a browser window titled "Tomcat Web Application Manager" at the URL <http://192.168.150.128:8080/manager/html>. The page displays a table of applications with columns: Path, Version, Display Name, Running, Sessions, and Commands. The applications listed are: Welcome to Tomcat, Tomcat Documentation, Servlet and JSP Examples, Tomcat Host Manager Application, Tomcat Manager Application, and Webapp. Each application row includes buttons for Start, Stop, Reload, Undeploy, and Expire sessions.

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
/webapp	None specified	Webapp	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

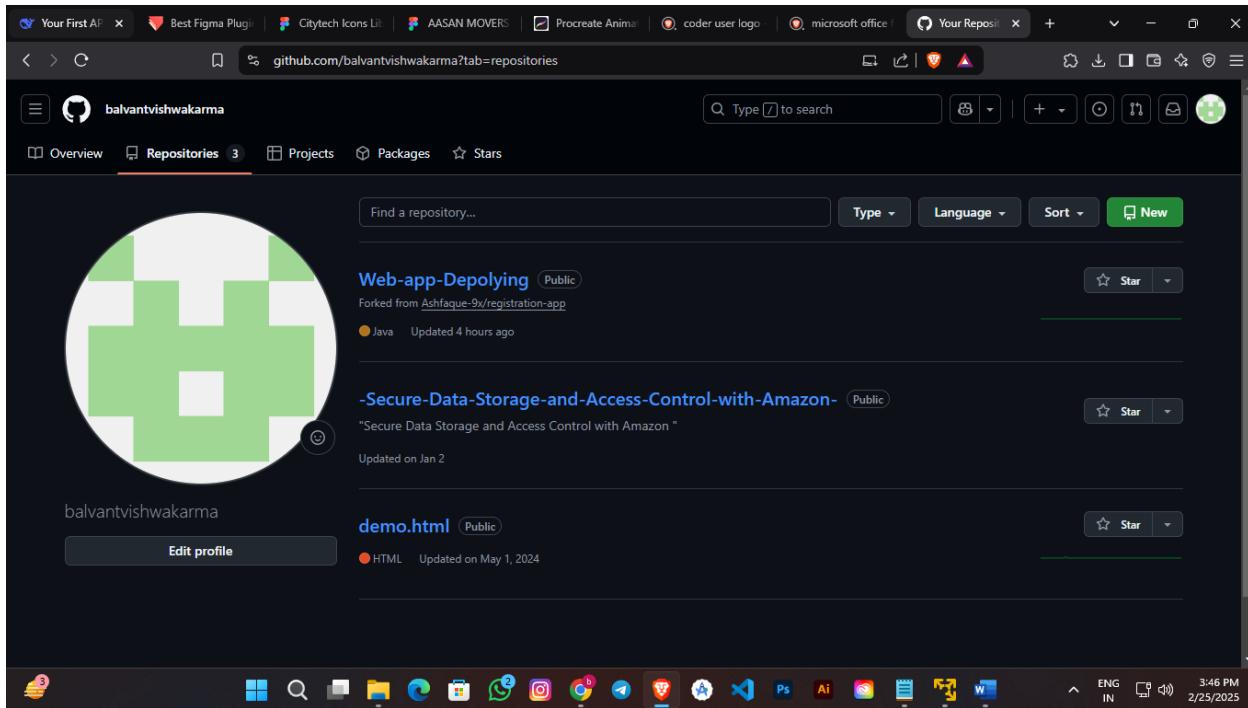
The screenshot shows a browser window at the URL <http://192.168.150.128:8080/webapp/>. The title is "New user Register for DevOps Learning at balvant". The form asks for "Please fill in this form to create an account." It contains fields for Enter Name, Enter mobile, Enter Email, Password, and Repeat Password. Below the form, a note states: "By creating an account you agree to our [Terms & Privacy](#)". There are "Register" and "Sign in" buttons.

Thank You, Happy Learning

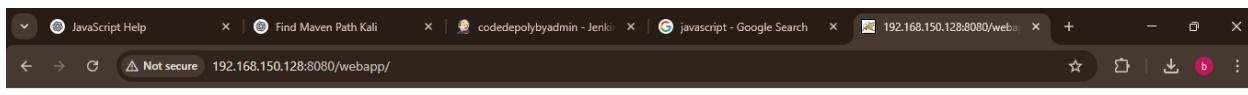
See You Again

The screenshot shows a Windows taskbar with various pinned icons including File Explorer, Microsoft Edge, WhatsApp, Instagram, and others. The system tray shows the date and time as "3:44 PM 2/25/2025".

Now Change Code and check its working or not



Complete Response



New user Register for DevOps Learning at Gujarat University balvant Vishwakarma

Please fill in this form to create an account.

Enter Name	<input type="text" value="Enter Full Name"/>
Enter mobile	<input type="text" value="Enter mobile number"/>
Enter Email	<input type="text" value="Enter Email"/>
Password	<input type="password" value="Enter Password"/>
Repeat Password	<input type="password" value="Repeat Password"/>

By creating an account you agree to our [Terms & Privacy](#).

[Register](#)

Already have an account? [Sign in](#).

Thank You, Happy Learning

See You Again



