

Give the names to the instances

JENKINS SETUP:

Update the apt repository

Sudo apt-get update

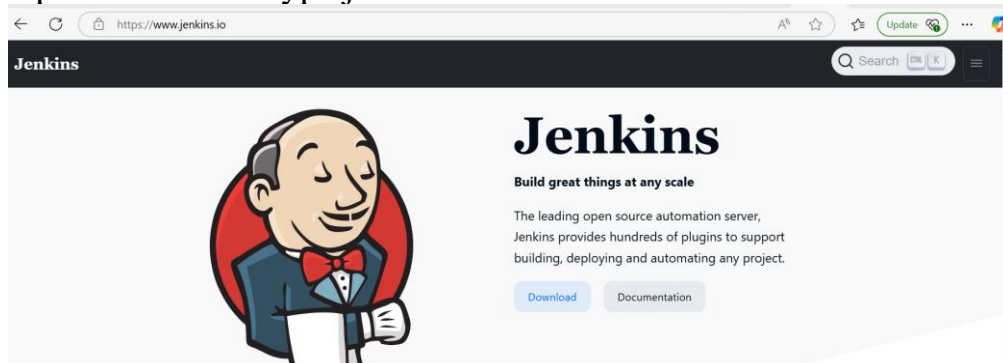
```
ubuntu@ip-172-31-15-229:~$ sudo apt-get update
```

Download java

```
Sudo apt-get install -y openjdk-21-jdk
```

[illegible]

Open the browser type `jenkins.io` in the url --> click on the download



Right click on the generic java package --> copy the link

<https://get.jenkins.io/war-stable/2.492.2/jenkins.war>

Run the below command in the gitbash dev terminal

```
$wget https://get.jenkins.io/war-stable/2.492.2/jenkins.war
```

```

ubuntu@ip-172-31-15-229:~$ wget https://get.jenkins.io/war-stable/2.492.2/jenkins.war
--2025-03-10 13:16:04-- https://get.jenkins.io/war-stable/2.492.2/jenkins.war
Resolving get.jenkins.io (get.jenkins.io)... 20.7.178.24, 2603:1003:408:5::15a
Connecting to get.jenkins.io (get.jenkins.io)[20.7.178.24]:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://2.mirrors.in.sahilister.net/jenkins/war-stable/2.492.2/jenkins.war [following]
--2025-03-10 13:16:05-- https://2.mirrors.in.sahilister.net/jenkins/war-stable/2.492.2/jenkins.war
Resolving 2.mirrors.in.sahilister.net (2.mirrors.in.sahilister.net)... 82.180.146.159, 2400:d321:2217:1599::1
Connecting to 2.mirrors.in.sahilister.net (2.mirrors.in.sahilister.net)[82.180.146.159]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 96679304 (92M) [application/java-archive]
Saving to: 'jenkins.war'

jenkins.war                               100%[=====] 92.20M  13.8MB/s   in 7.6s

2025-03-10 13:16:13 (12.2 MB/s) - 'jenkins.war' saved [96679304/96679304]

ubuntu@ip-172-31-15-229:~$

```

Start the jenkins

```
$java -jar jenkins.war
```

```
ubuntu@ip-172-31-15-229:~$ java -jar jenkins.war
Running from: /home/ubuntu/jenkins.war
webroot: /home/ubuntu/jenkins/war
2025-03-10 13:17:55.282+0000 [id=1] INFO winstone.Logger$logInternal: Beginning extraction from war file
2025-03-10 13:17:57.002+0000 [id=1] WARNING o.e.j.ee9.nested.ContextHandler$setContextPath: Empty contextPath
2025-03-10 13:17:57.121+0000 [id=1] INFO org.eclipse.jetty.server.Server$doStart: jetty-12.0.16; built: 2024-12-09T12:42:48+0000
2025-03-10 13:17:58.167+0000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor$visitServlet: NO JSP Support for /, did not find [org.eclipse.jetty.jsp.Jsp12ServletContainer]
2025-03-10 13:17:58.167+0000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor$visitServlet: NO JSP Support for /, did not find [org.eclipse.jetty.jsp.Jsp12ServletContainer]
```

Administration password is available on the terminal

```

*****
*****
Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:
b6393f446f5b4cd9875ed66c76c73c2c

This may also be found at: /home/ubuntu/.jenkins/secrets/initialAdminPassword

*****
*****
2025-03-10 13:18:09.807+0000 [id=31] INFO   hudson.InitReactorRunner$1.onAttained: Completed initialization
2025-03-10 13:18:09.838+0000 [id=24] INFO   hudson.lifecycle.Lifecycle.onReady: Jenkins is fully up and running
2025-03-10 13:18:11.392+0000 [id=45] INFO   h.m.DownloadService$Downloadable$load: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
2025-03-10 13:18:11.392+0000 [id=45] INFO   hudson.util.Retrier$start: Performed the action check updates server successfully at the attempt #1

```

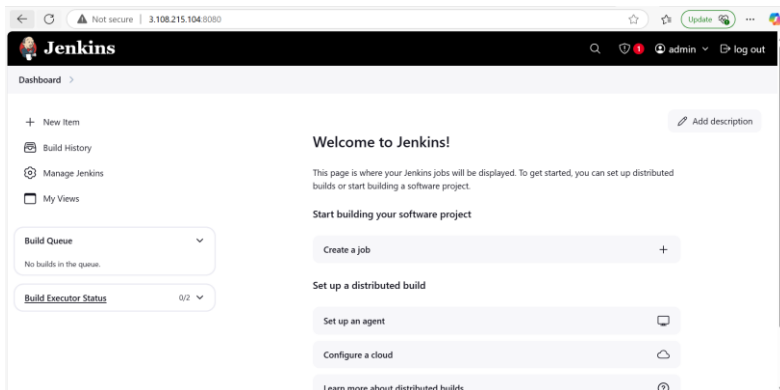
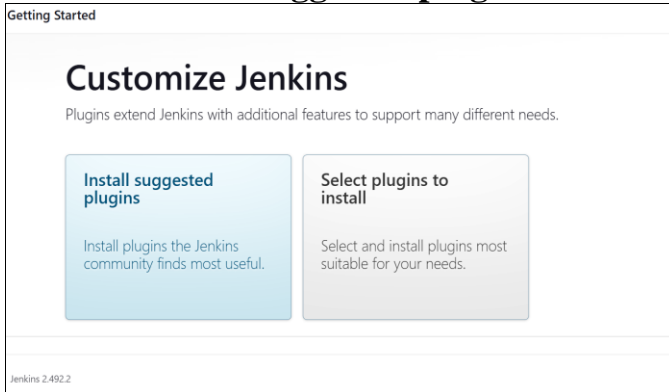
ACCESSING JENKINS:

Open the browser --> Take the public ip of devserver :8080

Copy paste the admin password



Click on install suggested plugin



Build war file:

Connect dev terminal through git

Check java is install or not. If not install then install java

Check maven is install or not . if not install then install maven

Check jenkins is install or not . if not install then install jenkins

Maven download:

Go to the root directory

Sudo su -

Cd /opt

```
root@ip-172-31-15-229: /opt
ubuntu@ip-172-31-15-229:~$ sudo su -
root@ip-172-31-15-229:~# cd /opt
root@ip-172-31-15-229:/opt#
```

Open the browser type maven download

https://maven.apache.org/download.cgi?

Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public [KEYS](#) used by the Apache Maven developers.

| | Link | Checksums | Signature |
|-----------------------|---|--|---|
| Binary tar.gz archive | apache-maven-3.9.9-bin.tar.gz | apache-maven-3.9.9-bin.tar.gz.sha512 | apache-maven-3.9.9-bin.tar.gz.asc |
| Binary zip archive | apache-maven-3.9.9-bin.zip | apache-maven-3.9.9-bin.zip.sha512 | apache-maven-3.9.9-bin.zip.asc |
| Source tar.gz archive | apache-maven-3.9.9-src.tar.gz | apache-maven-3.9.9-src.tar.gz.sha512 | apache-maven-3.9.9-src.tar.gz.asc |
| Source zip archive | apache-maven-3.9.9-src.zip | apache-maven-3.9.9-src.zip.sha512 | apache-maven-3.9.9-src.zip.asc |

- 3.9.9 [Release Notes](#) and [Release Reference Documentation](#)
- latest source code from [source repository](#)
- Distributed under the [Apache License, version 2.0](#)

Right click on the [apache-maven-3.9.9-bin.tar.gz](#) -->copy the link

Wget <https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz>

```
root@ip-172-31-15-229:/opt# wget https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz
--2025-03-10 13:33:04-- https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2004:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 9102945 (8.7M) [application/x-gzip]
Saving to: 'apache-maven-3.9.9-bin.tar.gz'

apache-maven-3.9.9-bin.tar.gz 100%[=====] 8.68M --.-KB/s in 0.08s

2025-03-10 13:33:04 (113 MB/s) - 'apache-maven-3.9.9-bin.tar.gz' saved [9102945/9102945]

root@ip-172-31-15-229:/opt#
```

Unzip the maven gip file

Tar -xvzf apache-maven-3.9.9-bin.tar.gz

```
root@ip-172-31-15-229:/opt# ll
total 8900
drwxr-xr-x  2 root root  4096 Mar 10 13:33 ./
drwxr-xr-x 19 root root  4096 Mar 10 13:06 ../
-rw-r--r--  1 root root 9102945 Aug 17  2024 apache-maven-3.9.9-bin.tar.gz
root@ip-172-31-15-229:/opt# tar -xvzf apache-maven-3.9.9-bin.tar.gz
apache-maven-3.9.9/README.txt
apache-maven-3.9.9/LICENSE
```

#ll

```
root@ip-172-31-15-229:/opt# ll
total 8904
drwxr-xr-x  3 root root  4096 Mar 10 13:35 ./
drwxr-xr-x 19 root root  4096 Mar 10 13:06 ../
drwxr-xr-x  6 root root  4096 Mar 10 13:35 apache-maven-3.9.9/
-rw-r--r--  1 root root 9102945 Aug 17  2024 apache-maven-3.9.9-bin.tar.gz
root@ip-172-31-15-229:/opt#
```

Rename apache-maven-3.9.9 to maven

```
root@ip-172-31-15-229:/opt# mv apache-maven-3.9.9 maven
root@ip-172-31-15-229:/opt# ll
total 8904
drwxr-xr-x  3 root root  4096 Mar 10 13:37 ./
drwxr-xr-x 19 root root  4096 Mar 10 13:06 ../
-rw-r--r--  1 root root 9102945 Aug 17  2024 apache-maven-3.9.9-bin.tar.gz
drwxr-xr-x  6 root root  4096 Mar 10 13:35 maven/
root@ip-172-31-15-229:/opt#
```

Cd maven

#ll

```
root@ip-172-31-15-229:/opt# cd maven
root@ip-172-31-15-229:/opt/maven# ll
total 56
drwxr-xr-x  6 root root  4096 Mar 10 13:35 ./
drwxr-xr-x  3 root root  4096 Mar 10 13:37 ../
-rw-r--r--  1 root root 18920 Aug 14  2024 LICENSE
-rw-r--r--  1 root root  5034 Aug 14  2024 NOTICE
-rw-r--r--  1 root root  1279 Aug 14  2024 README.txt
drwxr-xr-x  2 root root  4096 Mar 10 13:35 bin/
drwxr-xr-x  2 root root  4096 Mar 10 13:35 boot/
drwxr-xr-x  3 root root  4096 Aug 14  2024 conf/
drwxr-xr-x  4 root root  4096 Mar 10 13:35 lib/
root@ip-172-31-15-229:/opt/maven#
```

Note down the maven path

#pwd

/opt/maven

Move to cd bin

#ll

Note down the maven bin path (/opt/maven/bin)

#pwd

```
root@ip-172-31-15-229:/opt/maven# cd bin
root@ip-172-31-15-229:/opt/maven/bin# ll
total 40
drwxr-xr-x 2 root root 4096 Mar 10 13:35 ./
drwxr-xr-x 6 root root 4096 Mar 10 13:35 ../
-rw-r--r-- 1 root root 327 Aug 14 2024 m2.conf
-rwxr-xr-x 1 root root 5917 Aug 14 2024 mvn*
-rw-r--r-- 1 root root 6324 Aug 14 2024 mvn.cmd
-rwxr-xr-x 1 root root 1684 Aug 14 2024 mvnDebug*
-rw-r--r-- 1 root root 2169 Aug 14 2024 mvnDebug.cmd
-rwxr-xr-x 1 root root 1611 Aug 14 2024 mvnyjp*
root@ip-172-31-15-229:/opt/maven/bin# pwd
/opt/maven/bin
root@ip-172-31-15-229:/opt/maven/bin#
```

Now check the maven is install or not

Mvn --version

```
root@ip-172-31-15-229:/opt/maven/bin# mvn --version
Command 'mvn' not found, but can be installed with:
apt install maven
root@ip-172-31-15-229:/opt/maven/bin#
```

Try with the below command

./mvn --version

```
root@ip-172-31-15-229:/opt/maven/bin# ./mvn --version
Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfc9d260186937)
Maven home: /opt/maven
Java version: 21.0.6, vendor: Ubuntu, runtime: /usr/lib/jvm/java-21-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1021-aws", arch: "amd64", family: "unix"
root@ip-172-31-15-229:/opt/maven/bin#
```

Now go back to the root directory --> cd /

Check the maven version --> mvn --version

It shows maven is not found.

```
root@ip-172-31-15-229:/# mvn --version
Command 'mvn' not found, but can be installed with:
apt install maven
root@ip-172-31-15-229:/#
```

So we need to create environment variable

Go to root directory with below command

Cd ~

```
root@ip-172-31-15-229:/# cd ~
root@ip-172-31-15-229:~# pwd
/root
root@ip-172-31-15-229:~#
```

#ll

U can see the .profile file

Open the file with below command

Sudo vim .profile

```
# ~/.profile: executed by Bourne-compatible login shells.

if [ "$BASH" ]; then
  if [ -f ~/.bashrc ]; then
    . ~/.bashrc
  fi
fi

mesg n 2> /dev/null || true
~
```

Go to the insert mode(click on I) and give the maven,java home and m2 paths here

```
# ~/.profile: executed by Bourne-compatible login shells.
```

```
if [ "$BASH" ]; then
  if [ -f ~/.bashrc ]; then
    . ~/.bashrc
  fi
fi
M2_HOME=/opt/maven
M2=/opt/maven/bin
JAVA_HOME=/usr/lib/jvm/java-21-openjdk-amd64
PATH=$PATH:$HOME/bin:$JAVA_HOME:$M2_HOME:$M2
mesg n 2> /dev/null || true
```

:wq

To get the java_home path

```
#find / -name java-21* (/usr/lib/jvm/java-21-openjdk-amd64)
```

```
root@ip-172-31-15-229:~# find / -name java-21*
/usr/share/gdb/auto-load/usr/lib/jvm/java-21-openjdk-amd64
/usr/lib/jvm/java-21-openjdk-amd64
/usr/lib/debug/usr/lib/jvm/java-21-openjdk-amd64
/etc/java-21-openjdk
```

```
#echo $PATH
```

```
root@ip-172-31-15-229:~# echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
root@ip-172-31-15-229:~#
```

U CANT SEE THE JAVA AND MAVEN PATH ABOVE . SO WE NEED TO RESTART THE .PROFILE FILE with below command

```
#source .profile
```

```
root@ip-172-31-15-229:~# source .profile
root@ip-172-31-15-229:~# echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/root/bin:/usr/lib/jvm/java-21-openjdk-amd64:/opt/maven:/opt/maven/bin
root@ip-172-31-15-229:~#
```

Now u can see the java and maven paths

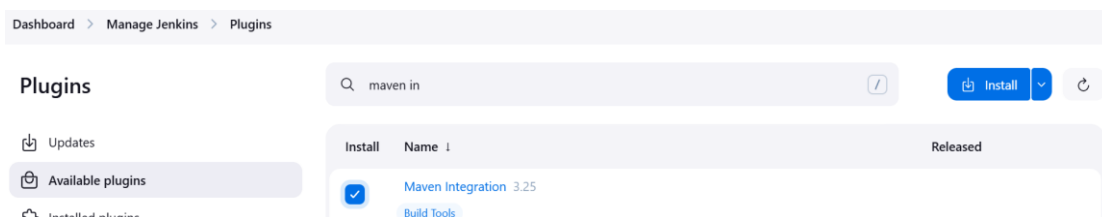
Now check the maven version

```
#mvn --version -->now u can able to see the maven
```

```
root@ip-172-31-15-229:~# mvn --version
Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfc9d97d260186937)
Maven home: /opt/maven
Java version: 21.0.6, vendor: Ubuntu, runtime: /usr/lib/jvm/java-21-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1021-aws", arch: "amd64", family: "unix"
root@ip-172-31-15-229:~#
```

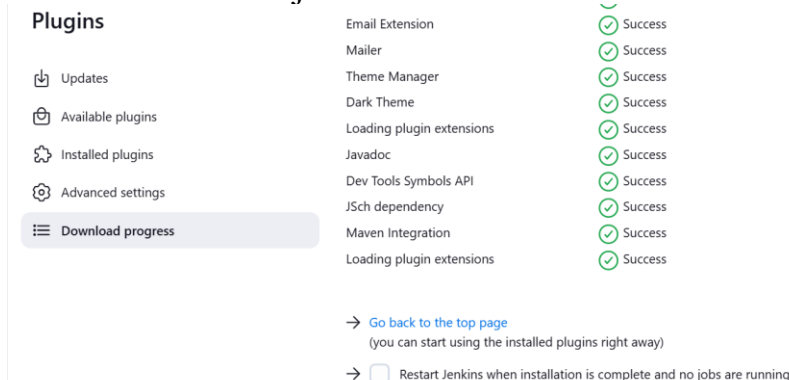
Now go to the jenkins dashboard u need to install one plugin (maven integratin)

Managejenkins-->plugins-->available plugins-->maven integration plugin



Without this plugin we can't able to see the maven project

Once installed , click on the restart jenkins



U need to add java and maven paths in the jenkins
Go to jenkins dashboard-->managejenkins-->tools
Add JDK and add MAVEN

Dashboard > Manage Jenkins > Tools

JDK installations

Add JDK

≡

JDK

×

Name

JAVA -21

JAVA_HOME

/usr/lib/jvm/java-21-openjdk-amd64

☐ Install automatically

?

Add JDK

UNCHECK THE install automatically
Add maven

Maven installations

Add Maven

≡

Maven

×

Name

maven

MAVEN_HOME

/opt/maven

☐ Install automatically

?

Add Maven

Click on apply and save it
Now we can create job for war file
Dashboard-->newitem-->war(give any name) select maven project click on ok


Dashboard > All > New Item

New Item


Enter an item name

war


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.



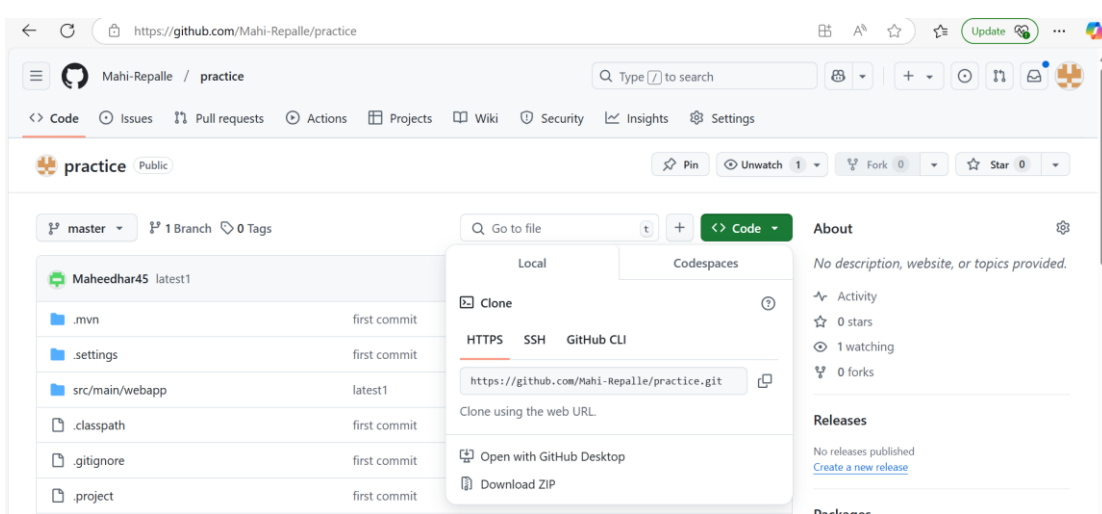
Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.



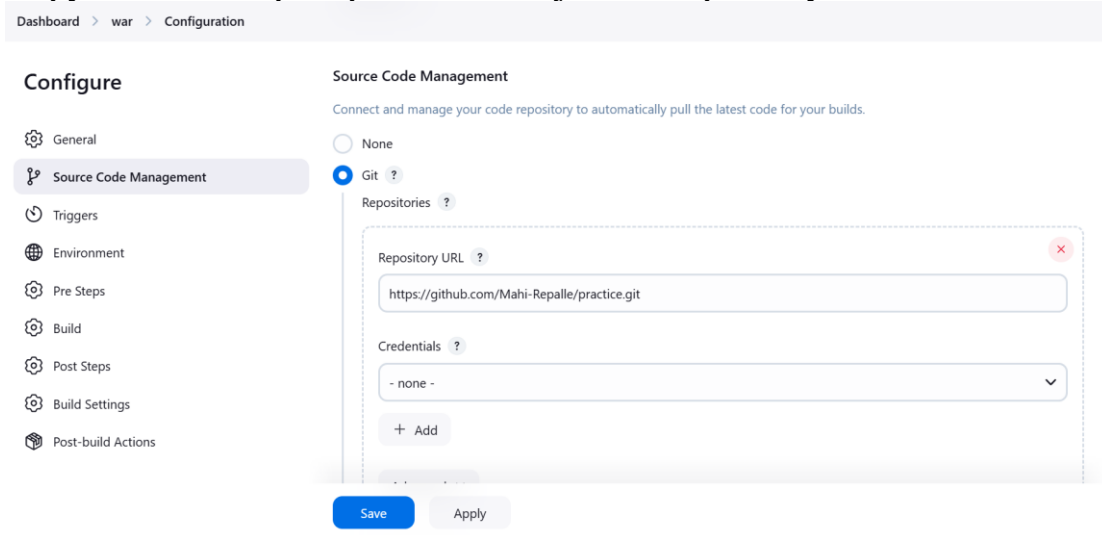
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as

OK

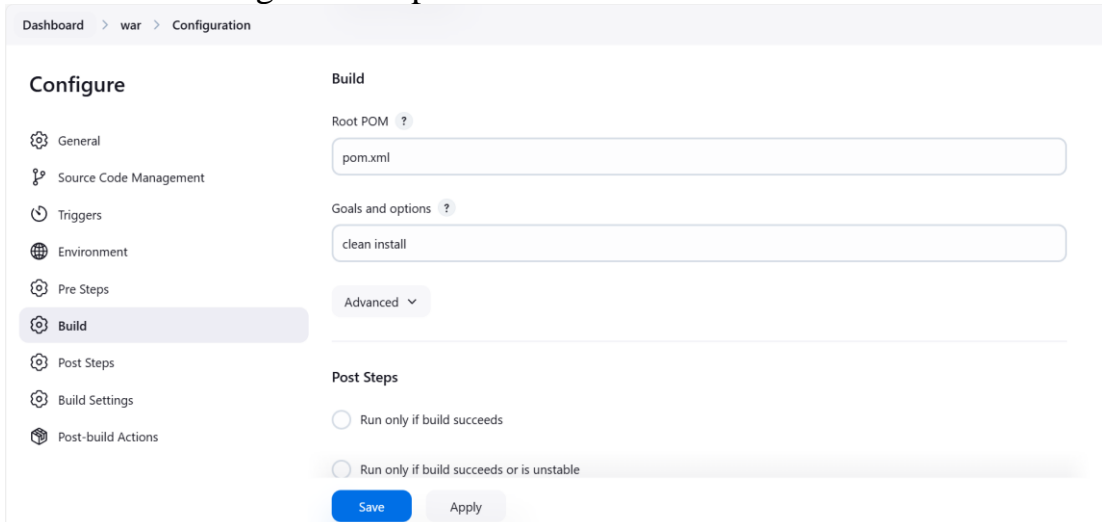
Source code management-->select git--> give the github url project path(open my github account-->go to the repositories
Select the practice repository)



Copy the HTTPS path paste it in the jenkins repository url



Select the build goal and options write the command clean install click on apply and save



Click on build now

If job execution is taking lot of time

Then

logout the jenkins

Stop the dev instance

Restart the dev instanc

Start the jenkins server

Run the job

Now ur job will be excuted

Dashboard >

+ New Item

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

All +

| S | W | Name | Last Success | Last Failure | Last Duration |
|---|---|------|--------------|--------------|---------------|
| ✓ | ☀ | war | 10 min #2 | N/A | 21 sec |

Add description

```
Started by user admin
Running as SYSTEM
Building in workspace /home/ubuntu/.jenkins/workspace/war
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /home/ubuntu/.jenkins/workspace/war/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Mahi-Repalle/practice.git # timeout=10
Fetching upstream changes from https://github.com/Mahi-Repalle/practice.git
```

```
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 10.805 s
[INFO] Finished at: 2025-03-10T14:36:37Z
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /home/ubuntu/.jenkins/workspace/war/pom.xml to DevOpsCourse/MyDevPipeline/0.0.1-SNAPSHOT/MyDevPipeline-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /home/ubuntu/.jenkins/workspace/war/target/MyDevPipeline.war to DevOpsCourse/MyDevPipeline/0.0.1-SNAPSHOT/MyDevPipeline-0.0.1-SNAPSHOT.war
channel stopped
Finished: SUCCESS
```

Deploy artifact into sit server

Connect to sit machine with git bash

```
ubuntu@ip-172-31-8-148: ~
```

```
ubuntu@ip-172-31-8-148:~$ |
```

Update the apt repository

Sudo apt-get update

```
ubuntu@ip-172-31-8-148:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2377 kB]
```

Install tomcat 9

Sudo apt-get install -y tomcat9

```
ubuntu@ip-172-31-8-148:~$ sudo apt-get install -y tomcat9
```

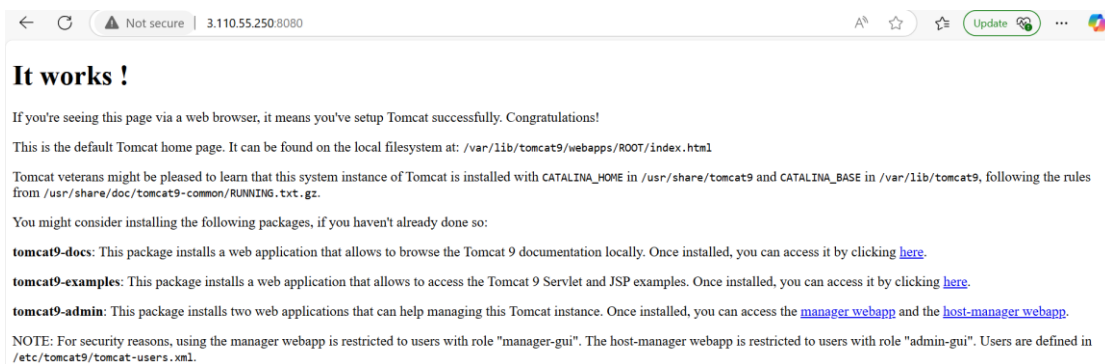
Now install tomcat9 admin as well

Sudo apt-get install tomcat9-admin

```
ubuntu@ip-172-31-8-148:~$ sudo apt-get install tomcat9-admin
```

how can we access the tomcat

Take the public ip of sit server and add 8080(copy paste this command on the browser)



Now go to below path

Cd /etc/tomcat9

\$ll

```
ubuntu@ip-172-31-8-148:/etc$ cd /etc/tomcat9
ubuntu@ip-172-31-8-148:/etc/tomcat9$ ll
total 220
drwxr-xr-x  4 root root    4096 Mar 10 14:28 ./
drwxr-xr-x 97 root root    4096 Mar 10 14:28 ../
drwxrwxr-x  3 root tomcat  4096 Mar 10 14:28 Catalina/
-rw-r----- 1 root tomcat  7276 Jan 15  2022 catalina.properties
-rw-r----- 1 root tomcat  1400 Jan 15  2022 context.xml
-rw-r----- 1 root tomcat  1149 Jan 15  2022 jaspic-providers.xml
-rw-r----- 1 root tomcat  2799 Jul 19  2022 logging.properties
drwxr-xr-x  2 root tomcat  4096 Mar 10 14:28 policy.d/
-rw-r----- 1 root tomcat  7578 Jul 20  2022 server.xml
-rw-r----- 1 root tomcat  2756 Jan 15  2022 tomcat-users.xml
-rw-r----- 1 root tomcat 172359 Jan 15  2022 web.xml
ubuntu@ip-172-31-8-148:/etc/tomcat9$
```

now we need to add user in the tomcat-users.xml file

Sudo vim tomcat-users.xml

Go to the insert mode

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
 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.
-->
<tomcat-users xmlns="http://tomcat.apache.org/xml"
              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
              xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
              version="1.0">
<!--
 By default, no user is included in the "manager-gui" role required
 to operate the "/manager/html" web application.  If you wish to use this app,
 you must define such a user - the username and password are arbitrary.

 Built-in Tomcat manager roles:
 - manager-gui    - allows access to the HTML GUI and the status pages
 - manager-script - allows access to the HTTP API and the status pages
 - manager-jmx    - allows access to the JMX proxy and the status pages
 - manager-status - allows access to the status pages only
-->
```

```
-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="must-be-changed" roles="tomcat"/>
<user username="both" password="must-be-changed" roles="tomcat,role1"/>
<user username="role1" password="must-be-changed" roles="role1"/>
-->
<user username="maheedhar" password="mahi1359" roles="manager-script,manager-status,manager-gui"/>
</tomcat-users>
-- INSERT --
```

:wq

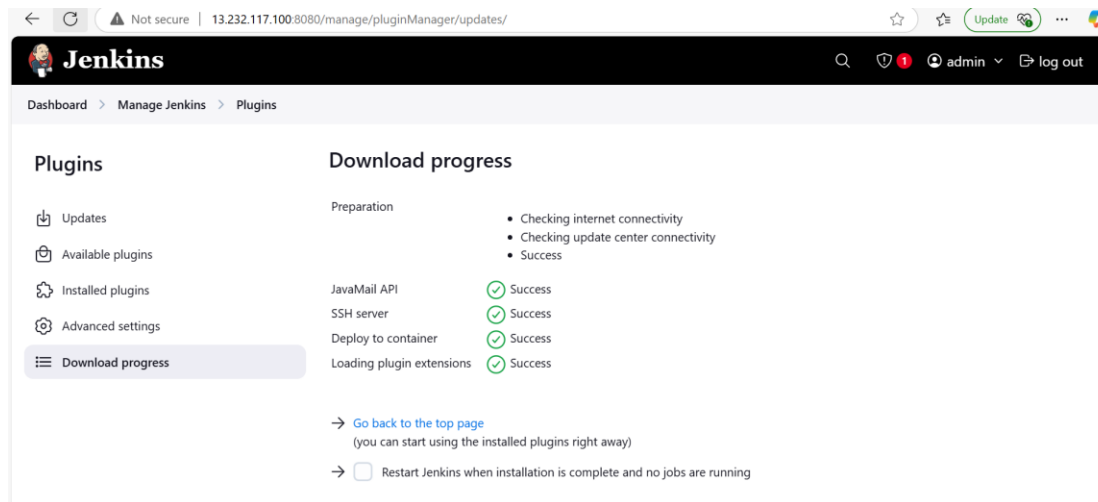
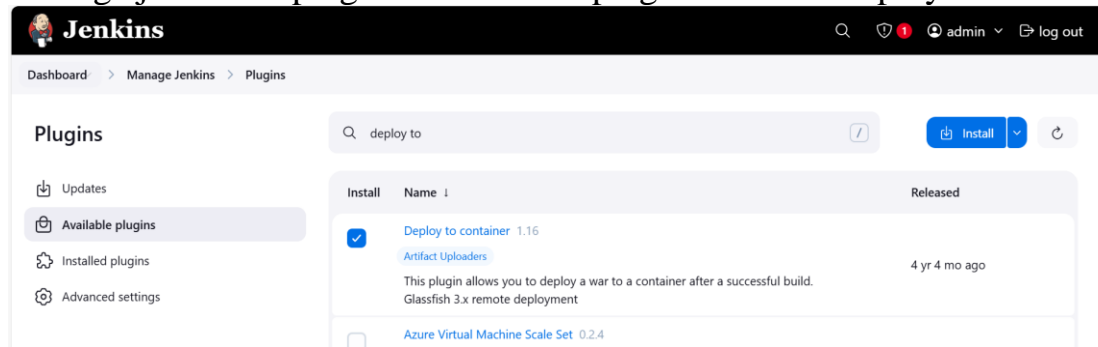
Now restart the tomcat service

\$sudo service tomcat9 restart

```
ubuntu@ip-172-31-8-148:/etc/tomcat9$ sudo service tomcat9 restart
ubuntu@ip-172-31-8-148:/etc/tomcat9$
```

Now u can add one plugin in the jenkins (deploy to container)

Manage jenkins-->plugins-->available plugins-->select deploy to container and install it

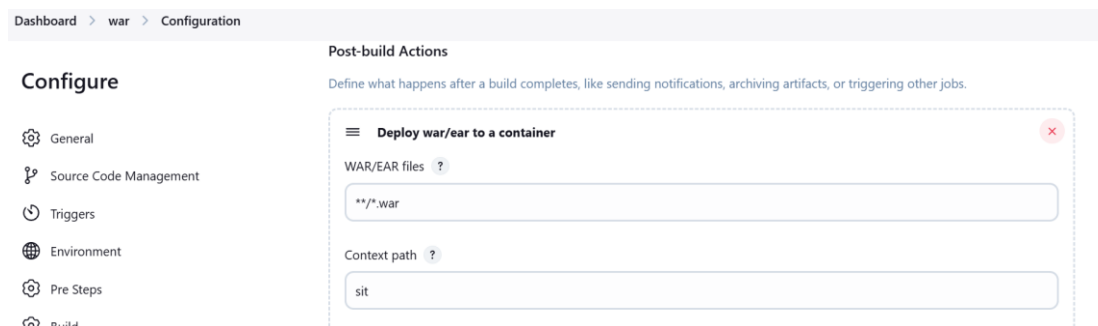
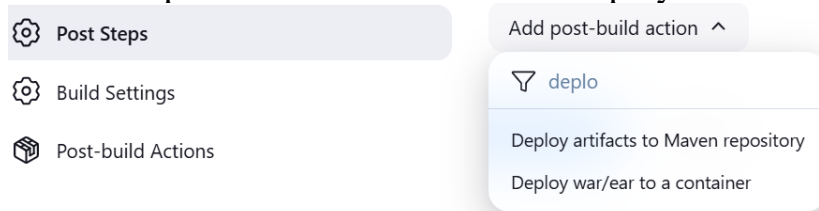


Now go to the jenkins dashboard

Select the war job

Select the configure

Select the post build action and search deploy war/ear to a container



Add container tomcat 9

Configure

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

Post-build Actions

Define what happens after a build completes, like sending notifications, archiving artifacts, or triggering other jobs.

Deploy war/ear to a container

WAR/EAR files ?

**/*.war

Context path ?

sit

Containers

Add Container ^

tomcat 9

Tomcat 9.x Remote

Save

Apply

Add the credentials

Jenkins Credentials Provider: Jenkins

Username ?

maheedhar

☐ Treat username as secret ?

Password ?

ID ?

Select the credentials and give the tomcat url (sit server path along with 8080 port no)
Click on apply and save
And run the build now

Dashboard > war > Configuration

Configure

General

Source Code Management

Triggers

Environment

Pre Steps

Build

Post Steps

Build Settings

Post-build Actions

**/*.war

Context path ?

sit

Containers

Tomcat 9.x Remote

Credentials

maheedhar/*****

+ Add

Tomcat URL ?

http://3.110.55.250:8080

Save

Apply

Dashboard

+ New Item Add description

Build History

| S | W | Name | Last Success | Last Failure | Last Duration |
|---|---|------|-----------------|--------------|---------------|
| ✓ | ☀ | war | 1 min 34 sec #3 | N/A | 20 sec |

Build Queue: No builds in the queue.

Build Executor Status: 0/2

How can we check the artifact is deployed or not

Take the sit publicipaddress and port no and give the context path name

Ex: <http://3.110.55.250:8080/sit/>



facebook

hai

Maheedhar45 / practice

Files

master

Go to file

src/main/webapp/index.jsp

practice / src / main / webapp / index.jsp

Maheedhar45 latest1 b809fbc · 4 days ago History

Code Blame 6 lines (6 loc) · 72 Bytes

```

1 <html>
2 <head>facebook</head>
3 <body>
4 <h1> hai </h1>
5 </body>
6 </html>

```

AUTOMATION THE JENKINS PIPELINE:

Whenever u made some changes in the source file jenkins job run automatically fetch the code from github to dev server and build the war file and deployed into sit

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP S_LAB

\$ git clone https://github.com/Mahi-Repalle/practice.git

Cloning into 'practice'...

remote: Enumerating objects: 59, done.

remote: Counting objects: 100% (59/59), done.

remote: Compressing objects: 100% (36/36), done.

remote: Total 59 (delta 9), reused 53 (delta 3), pack-reused 0 (from 0)

Receiving objects: 100% (59/59), 6.13 KiB | 392.00 KiB/s, done.

Resolving deltas: 100% (9/9), done.

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB

\$ ll

total 11008

```
-rw-r--r-- 1 Admin 197121 1555602 Feb  1 20:22 Ansible_Setup.docx
-rw-r--r-- 1 Admin 197121  434977 Feb 20 19:38 'Deploy to Server.docx'
-rw-r--r-- 1 Admin 197121  850944 Jan  8 18:19 EXP1-STEPS.doc
-rw-r--r-- 1 Admin 197121 1886107 Jan 27 19:00 Experiment-2.pdf
-rw-r--r-- 1 Admin 197121 1279778 Jan 21 07:47 Jenkins_setup_on_AWS.docx
-rw-r--r-- 1 Admin 197121 1748522 Feb 15 06:44 War_With_Maven.doc
-rw-r--r-- 1 Admin 197121  314368 Feb 21 18:49 automation.doc
-rw-r--r-- 1 Admin 197121 1725354 Feb 19 20:24 docker.docx
drwxr-xr-x 1 Admin 197121    0 Mar 10 20:35 practice/
-rw-r--r-- 1 Admin 197121 1451061 Jan 26 20:35 'war file.docx'
-rw-r--r-- 1 Admin 197121   162 Feb 19 07:08 '~$docker.docx'
-rw-r--r-- 1 Admin 197121   162 Feb 20 06:31 '~$ploy to Server.docx'
-rw-r--r-- 1 Admin 197121   162 Feb 20 11:38 '~$r_With_Maven.doc'
-rw-r--r-- 1 Admin 197121   162 Feb 19 20:34 '~$sible_Setup.docx'
```

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB

\$ cd practice

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice (master)

\$ ll

total 4

```
-rw-r--r-- 1 Admin 197121 1896 Mar 10 20:35 pom.xml
drwxr-xr-x 1 Admin 197121    0 Mar 10 20:35 src/
```

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice (master)

\$ cd src

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src (master)

\$ ll

total 0

```
drwxr-xr-x 1 Admin 197121 0 Mar 10 20:35 main/
```

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src (master)

\$ cd main

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main (master)

\$ ll

total 0

```
drwxr-xr-x 1 Admin 197121 0 Mar 10 20:35 webapp/
```

```
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main (master)
$ cd webapp
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ ll
total 1
drwxr-xr-x 1 Admin 197121 0 Mar 10 20:35 WEB-INF/
-rw-r--r-- 1 Admin 197121 78 Mar 10 20:35 index.jsp
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ vim index.jsp
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.jsp
no changes added to commit (use "git add" and/or "git commit -a")
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ git add .
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.jsp
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ git commit -m "ab"
[master 74b2935] ab
 1 file changed, 1 insertion(+), 1 deletion(-)
Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOP
S_LAB/practice/src/main/webapp (master)
$ git push origin master
Enumerating objects: 11, done.
```


Counting objects: 100% (11/11), done.

Delta compression using up to 8 threads

Compressing objects: 100% (4/4), done.

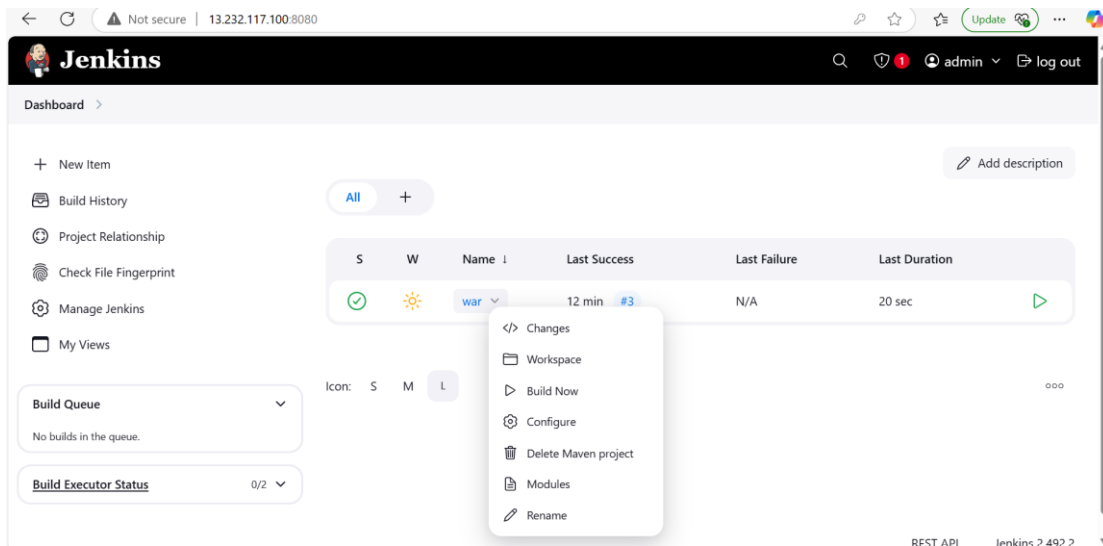
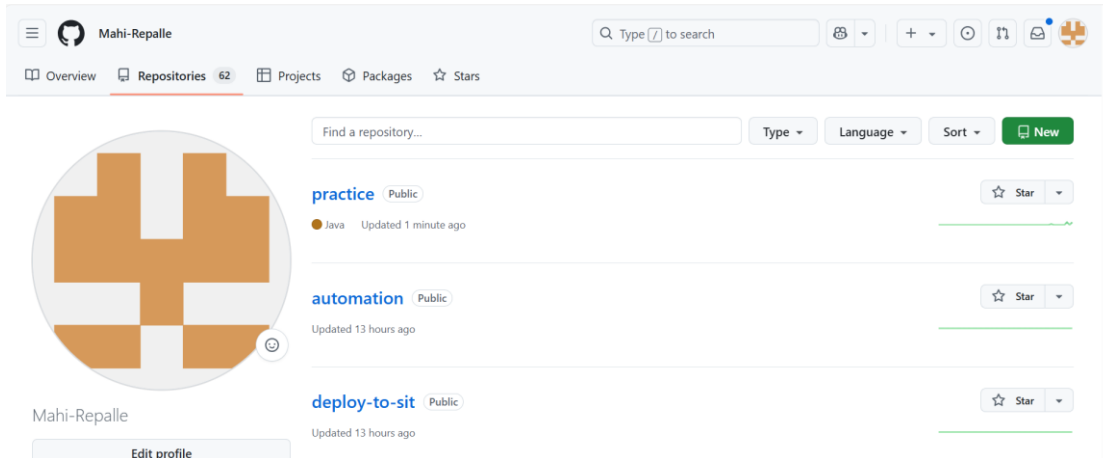
Writing objects: 100% (6/6), 469 bytes | 469.00 KiB/s, done.

Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

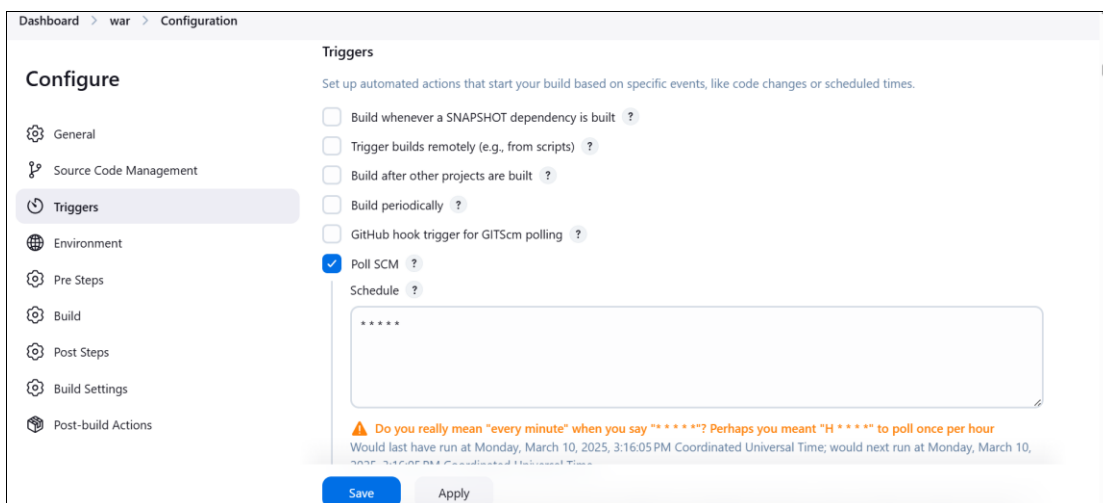
To <https://github.com/Mahi-Repalle/practice.git>

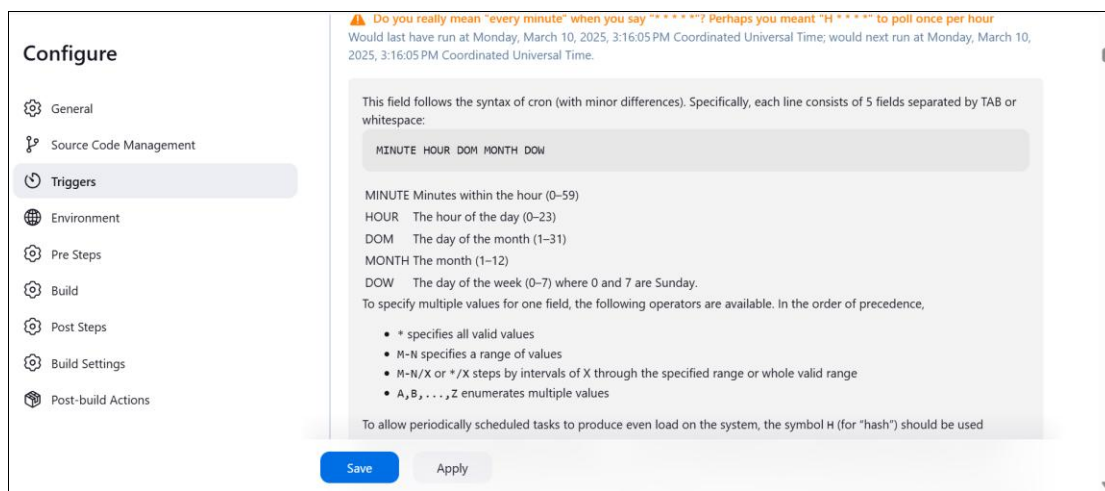
b809fbc..74b2935 master -> master



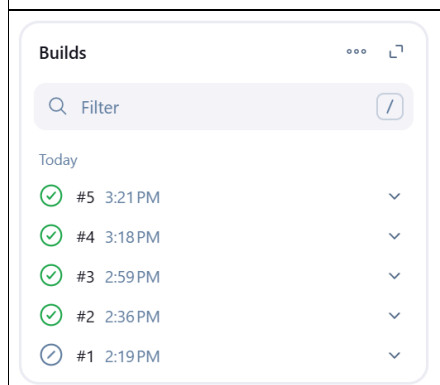
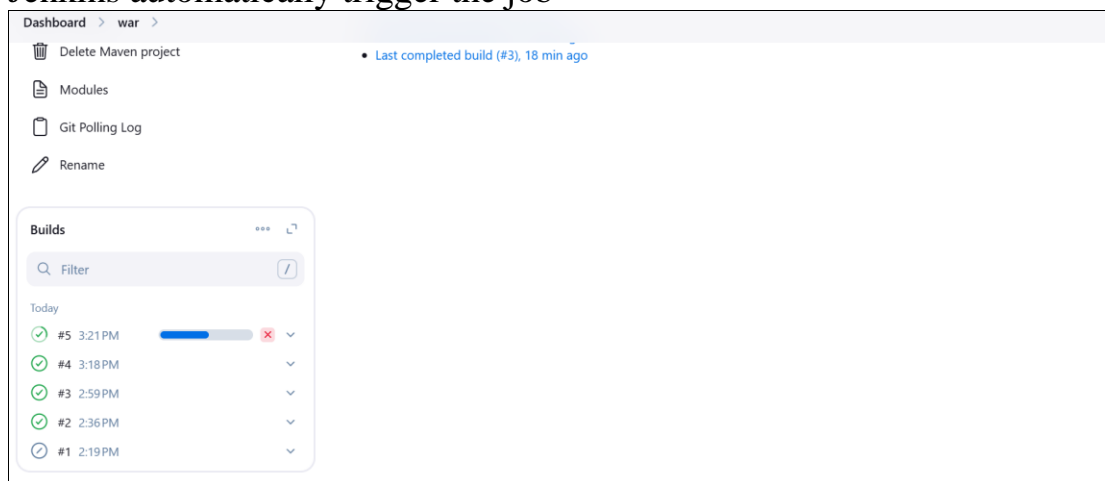
Triggers u can select the poll scm and give the crontab values

* * * * *





Click on apply and save the job
 Don't run the build now
 Jenkins automatically trigger the job



Now refresh the sit server latest code changes are reflected in the sit

