Launch the two instances on aws

Give the names to the instances

	devm	i-01fe94a504395bfe3	⊘ Running 🔍 🔍	t2.micro	🕐 Initializing	View alarms +
	sitm	i-06bbcd7c3e27800b4	⊘ Running 🔍 🔍	t2.micro	🕐 Initializing	View alarms +

JENKINS SETUP:

Connect to dev machine through git bash

Update the apt repository
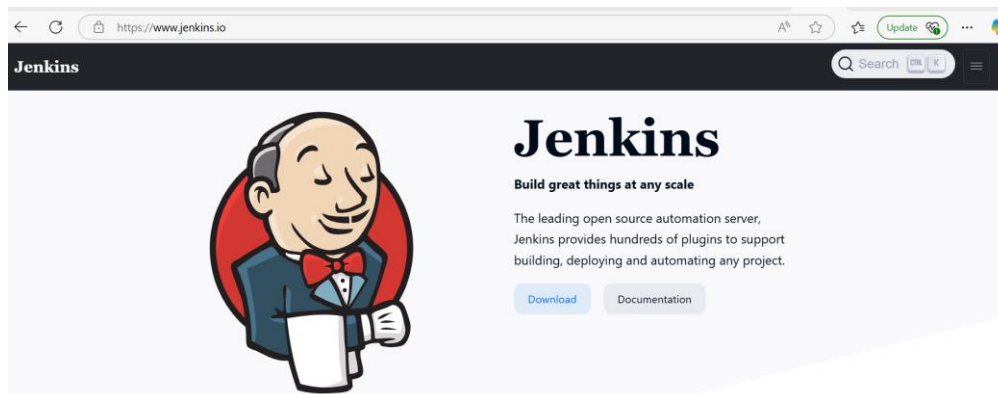Sudo apt-get update

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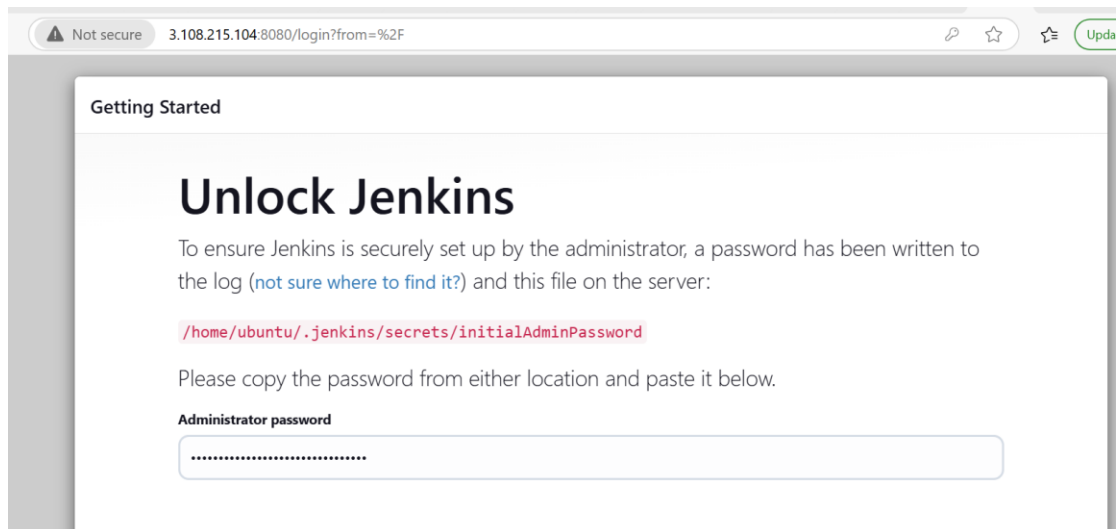
Download java

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

```
ubuntu@ip-172-31-15-229:~$ sudo apt-get install -y openjdk-21-jdk
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adwaita-icon-theme alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-service fontconfig fontconfig-config
  fonts-dejavu-core fonts-dejavu-extra gsettings-desktop-schemas gtk-update-icon-cache hicolor-icon-theme humanity-icon-theme java-common libasound2 libasound2-data
  libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data libavahi-common3
  libcairo-gobject2 libcairo2 libcolord2 libcups2 libdatrie1 libdconf1 libdeflate0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libepoxy0 libfontconfig1
  libfontenc1 libgdk-pixbuf-2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libgif7 libgl1 libgl1-amber-dri libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0
  libglx0 libgraphite2-3 libgtk-3-0 libgtk-3-bin libgtk-3-common libharfbuzz0b libice-dev libice6 libjbig0 libjpeg-turbo8 libjpeg8 liblcms2-2 libllvm15 libpango-1.0-0
  libpangocairo-1.0-0 libpangoft2-1.0-0 libpciaccess0 libpcsclite1 libpixman-1-0 libpthread-stubs0-dev librsvg2-2 librsvg2-common libsensors-config libsensors5 libsm-dev
  libsm6 libthai-data libthai0 libtiff5 libwayland-client0 libwayland-cursor0 libwayland-egl1 libwebp7 libx11-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0
  libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1 libxcursor1
  libxdamage1 libxdmcp-dev libxfixes3 libxft2 libxi6 libxinerama1 libxkbcommon0 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6
  libxv1 libxxf86dga1 libxxf86vm1 openjdk-21-jdk-headless openjdk-21-jre openjdk-21-jre-headless session-migration ubuntu-mono x11-common x11-utils x11proto-dev
  xorg-sgml-doctools xtrans-dev
```
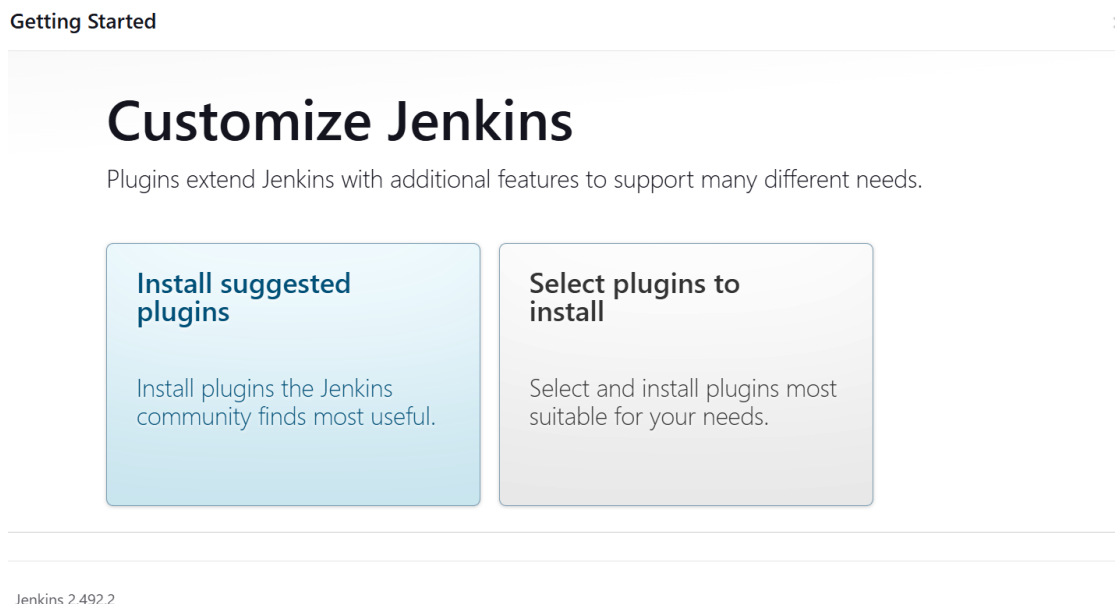
Open the bowser type jenkins.io in the url --> click on the download

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, 2603:1030:408:5::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: 2024-12-09T21:
42e84debc7; jvm 21.0.6+7-Ubuntu-122.04.1
2025-03-10 13:17:58.167+0000 [id=1]    INFO    o.e.j.e.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, di
```

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:

b6393f446f5b4cd9875ed66c76c7c3c2

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

*************************************************************
*************************************************************
*************************************************************

2025-03-10 13:18:09.807+0000 [id=31]   INFO    jenkins.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

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`/home/ubuntu/.jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

....

Click on install suggested plugin

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.492.2

Create First Admin User

Username

admin

Password

•••••

Confirm password

•••••

Jenkins 2.492.2

Skip and continue as admin   **Save and Continue**

Not secure | 3.108.215.104:8080   Update

Jenkins   🔍   admin ∨   log out

Dashboard >

+ New Item
📥 Build History
⚙ Manage Jenkins
🖥 My Views

Build Queue   ∨

No builds in the queue.

Build Executor Status   0/2 ∨

✏ Add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job   +

Set up a distributed build

Set up an agent   🖥

Configure a cloud   ☁

Learn more about distributed builds   ?

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 nto . if not install then install maven

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

Maven download:
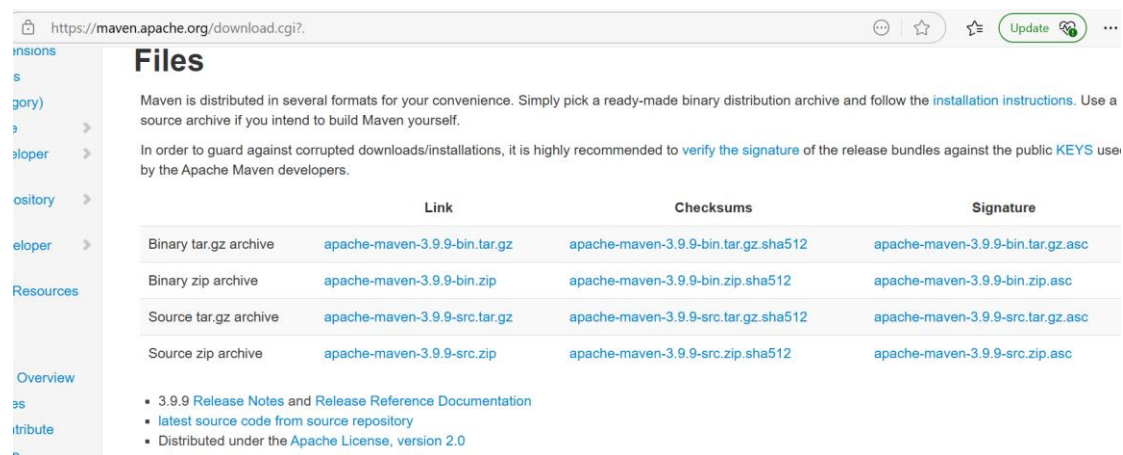
Go to the root directory

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

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, 2a04:4e42::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 (8e8579a9e76f7d015ee5ec7bfcdc97d260186937)
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 roor 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 ~

```
apt install maven
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 ABVOE . 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 (8e8579a9e76f7d015ee5ec7bfcdc97d260186937)
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
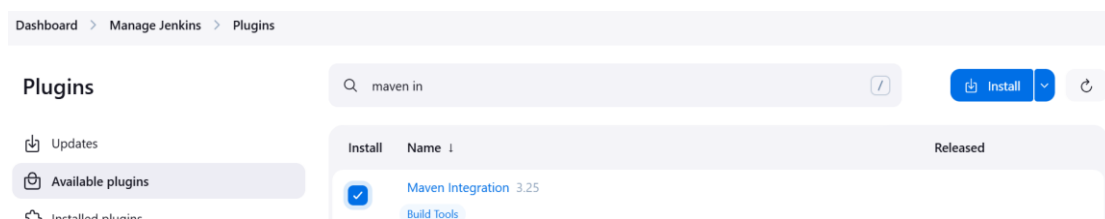
Without this plugin we can't able to see the maven project

Once installed , click on the restart jenkins
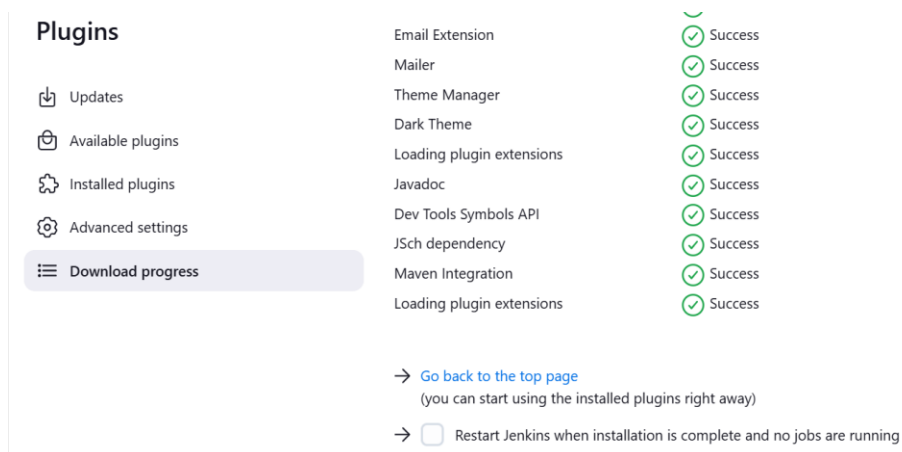
U need to add java and maven paths in the jenkins

Go to jenkins dashboard-->managejenkins-->tools

Add JDK and add MAVEN

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

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)
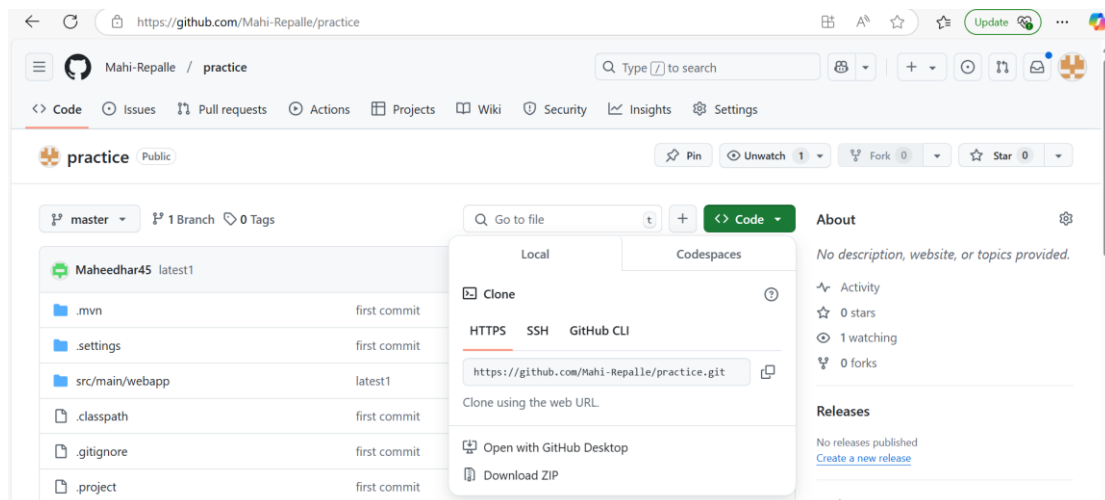
Copy the HTTPS path paste it in the jenkins repository url

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


```
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 artifcat into sit server

Connect to sit machine with git bash

Update the apt repository

Sudo apt-get update

Install tomcat 9
Sudo apt-get install -y tomcat9

Now install tomcat9 admin as well

Sudo apt-get install tomcat9-admin

how can we access the tomcat

Take the publicip of sit server and add 8080(copy paste this command on the browser)
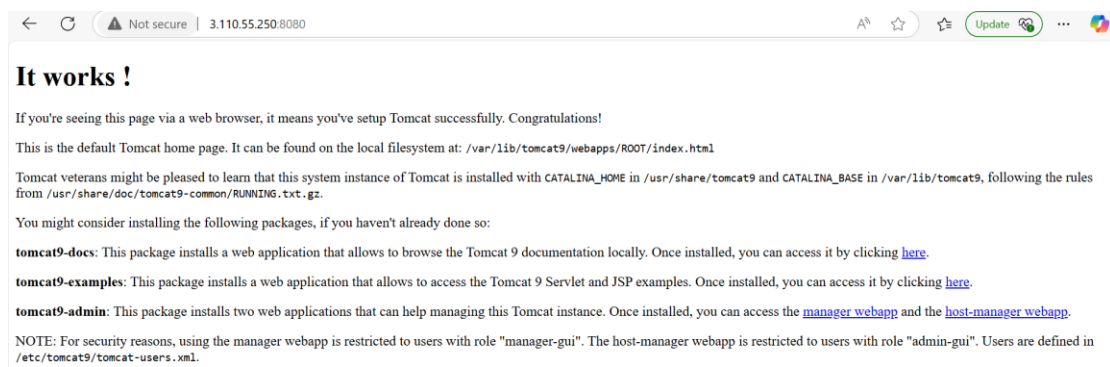
Now go to below path

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
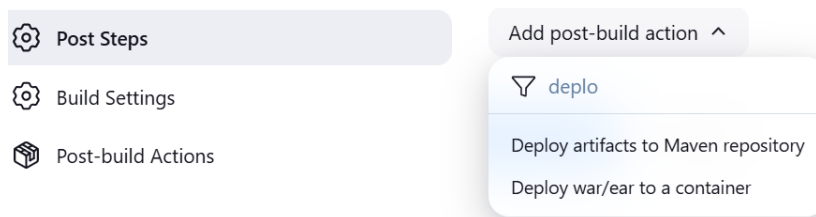to container and install it
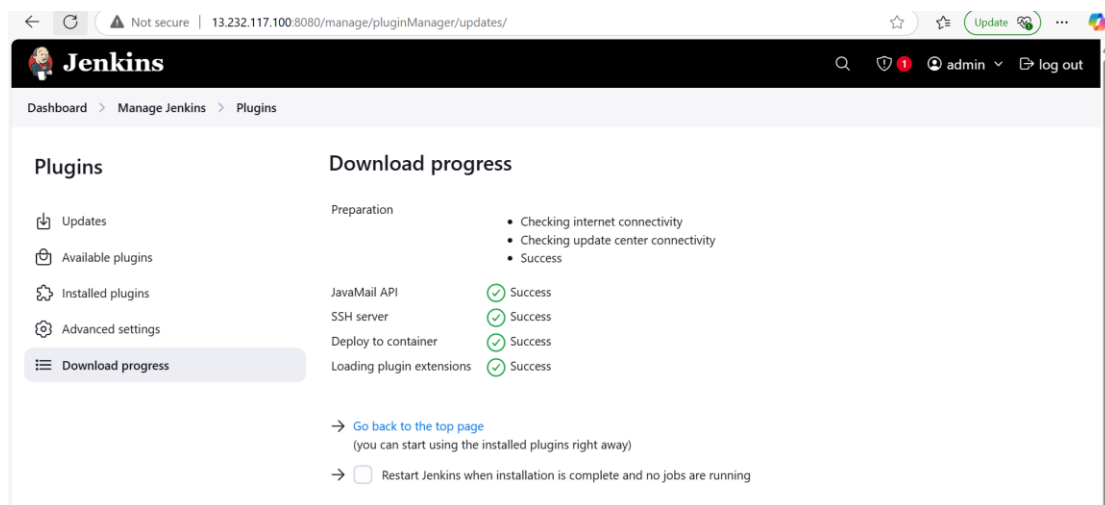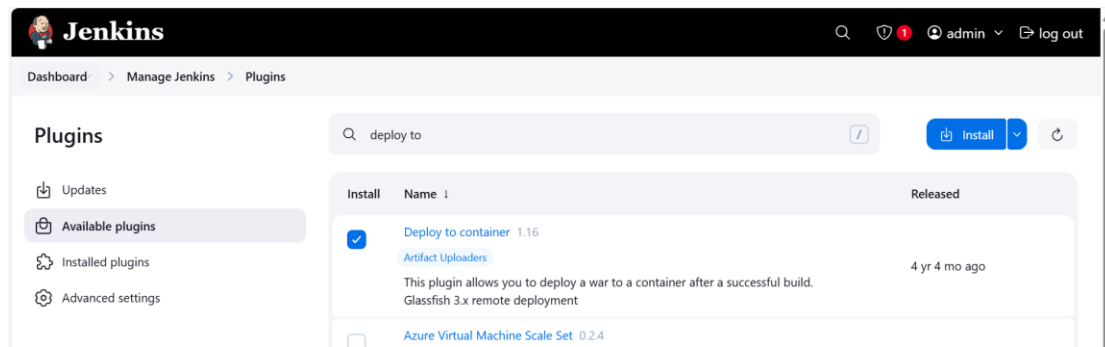
Now go to the jenkins dashboard
Select the war job
Select the configure

Select the post build action and searh deploy war/ear to a container
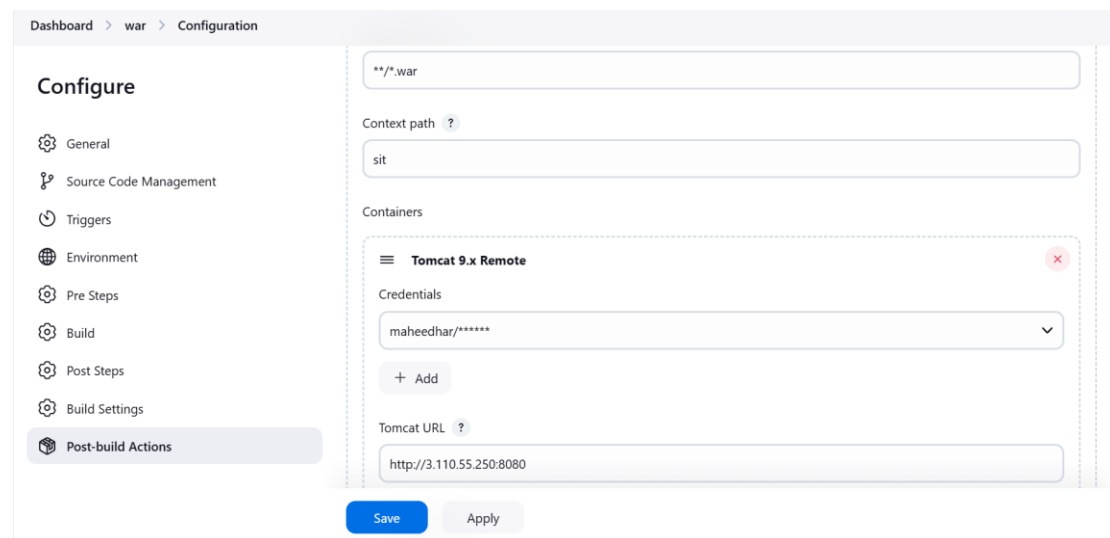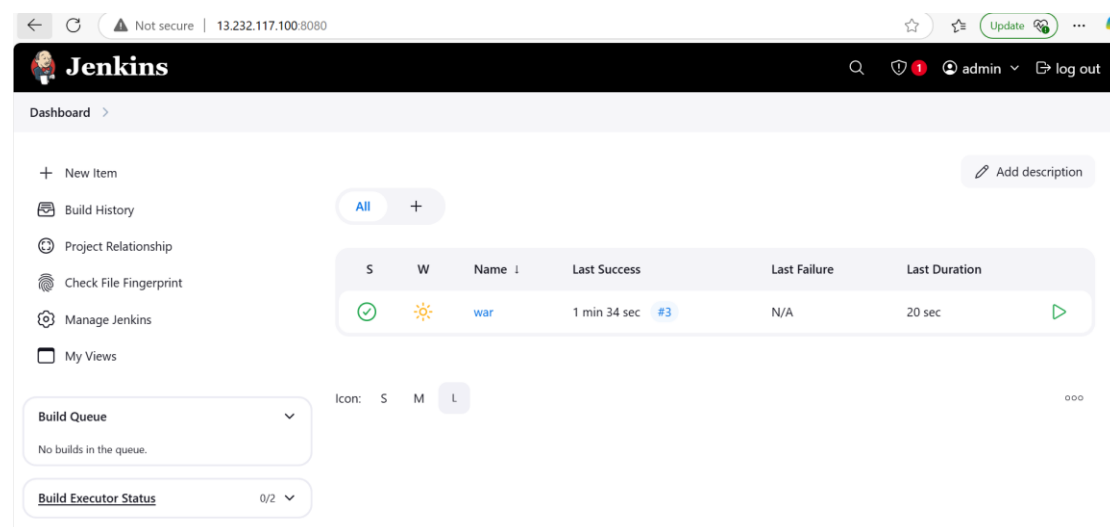
Add container tomcat 9

Add the credentials

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

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

← C | https://github.com/Mahi-Repalle/practice/blob/master/src/main/webapp/index.jsp

Mahi-Repalle / practice

<> Code ⊙ Issues ⇡⇣ Pull requests ⊙ Actions ⊞ Projects ▥ Wiki ⊘ Security ⋌ Insights ⚙ Settings

Files

master

Go to file

> .mvn
> .settings
∨ src/main/webapp
  > WEB-INF
    index.jsp
  .classpath
  .gitignore
  .project
  pom.xml

practice / src / main / webapp / index.jsp

Maheedhar45 latest1   b809fbc · 4 days ago History

Code Blame   6 lines (6 loc) · 72 Bytes   Raw

```
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/DEVOPS_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/DEVOPS_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/DEVOPS_LAB
$ cd practice

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOPS_LAB/pract
ice (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/DEVOPS_LAB/pract
ice (master)
$ cd src

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/src (master)
$ cd main

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/src/main (master)
$ cd webapp

Admin@DESKTOP-ASGG5M3 MINGW64 /d/CMRIT_24_25/24-
25_III_2/DEVOPS/DEVOPS_THEORY_LAB_DOCUMENTS/LAB_EXPERIMENTS/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/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/DEVOPS_LAB/pract
ice/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
```
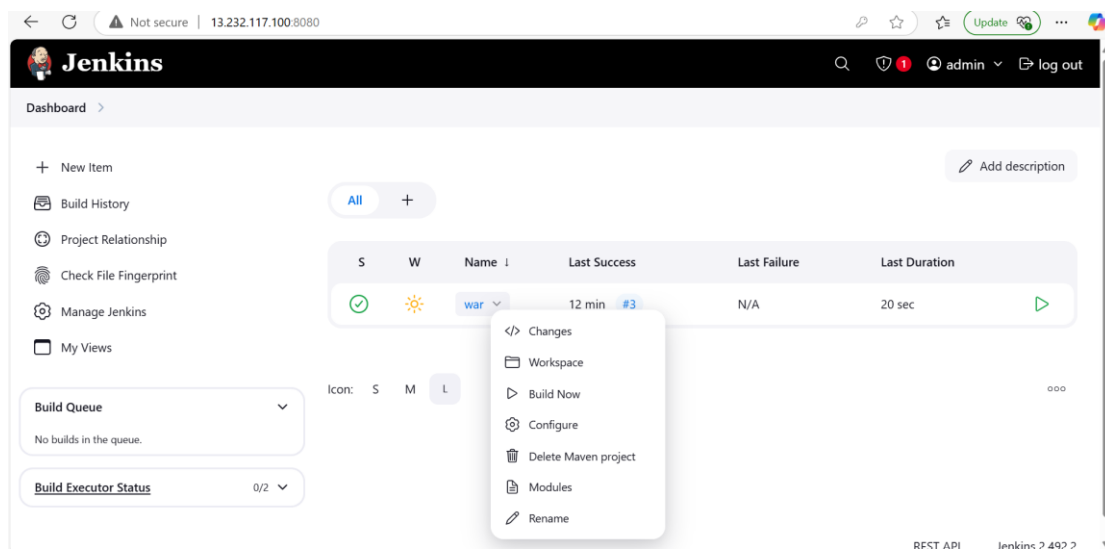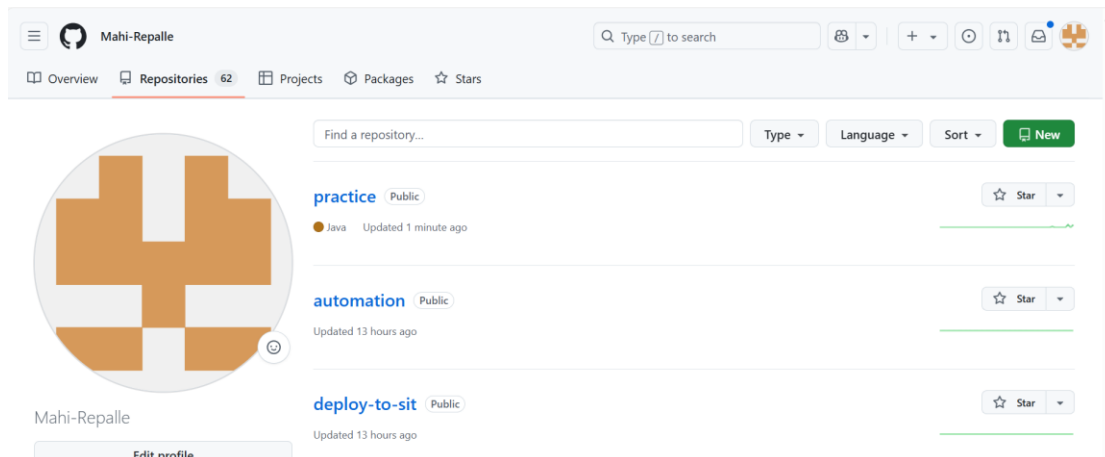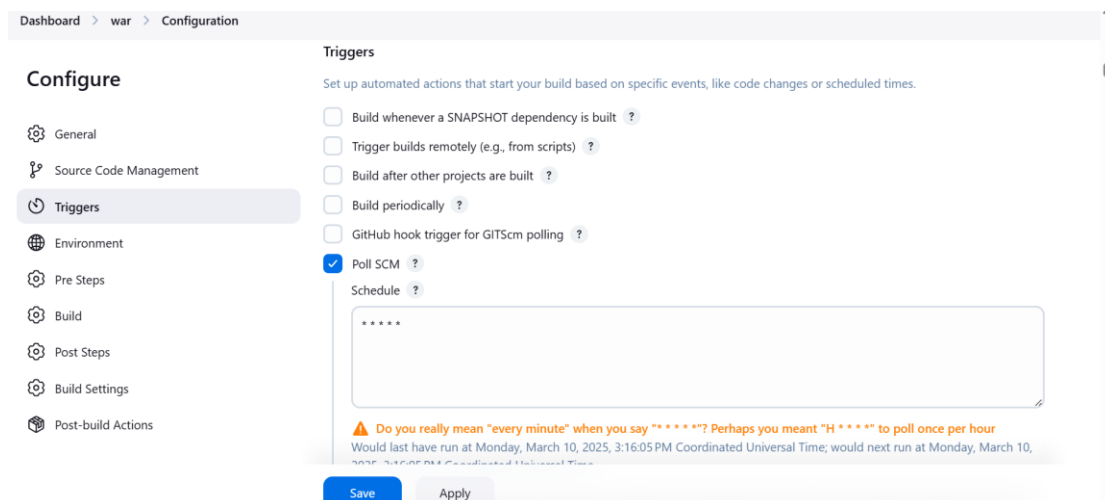
Triggers u can select the poll scm and give the crontab values

* * * * *

Click on apply and save the job

Don't run the build now

Jenkins automatically trigger the job
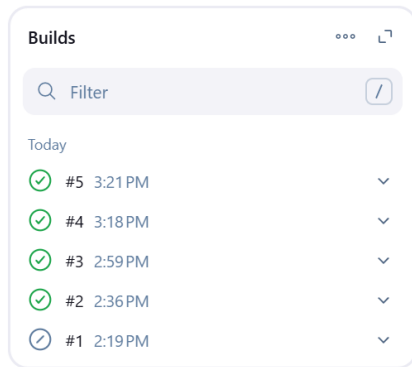
Now refresh the sit server latest code changes are reflected in the sit