AWS DevOps Project |Build Jenkins CI/CD Pipeline for Java Application deployment | Maven | Tomcat | Webhooks
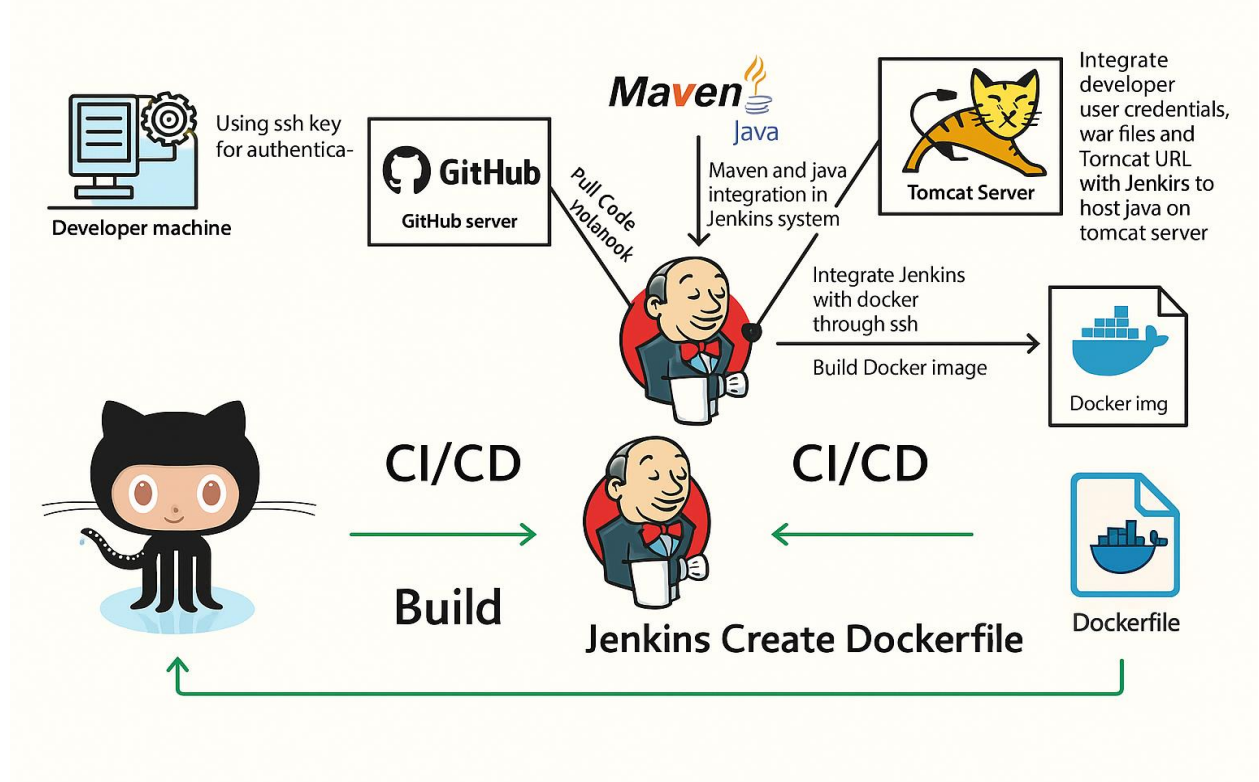

CI/CD Pipeline (Jenkins): Jenkins is configured to monitor the Git repository. Upon detecting changes, it performs the following:

- o Build: Uses Maven to compile the Java application.

- o Test: Runs unit tests to ensure code quality

- o Package: Packages the application into a deployable format (e.g., WAR or JAR file).

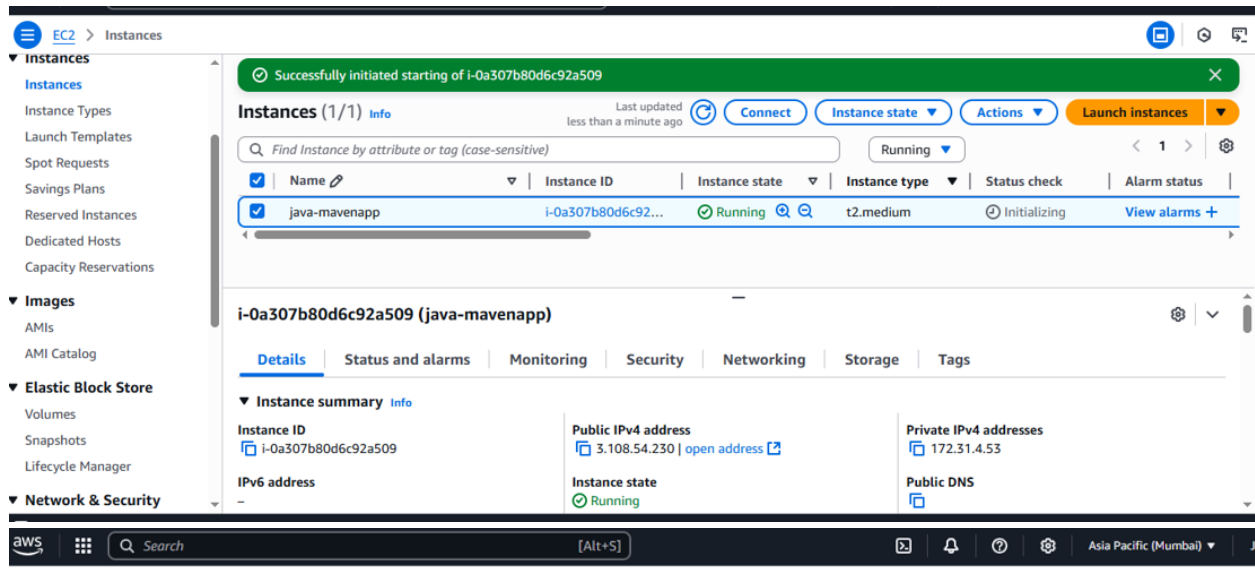Deploy: Transfers the packaged application to the AWS EC2 instance

- AWS EC2 Instance (Web Server): Hosts the deployed Java application, making it accessible to end-users.

- Developer writes Java code and defines dependencies in pom.xml.

- Maven reads pom.xml, downloads necessary libraries, compiles code and package it into a .war file

- Tomcat takes the .war file and deploys it as a web app accessible via a browser.

🔧 Tools and Technologies Used

- Java & Maven: For application development and build automation.

- Git: Version control system to manage source code.

- Jenkins: Automates the build, test, and deployment processes.

- AWS EC2: Provides scalable computing capacity to host the application.

Configure Infrastructure in AWS Cloud

Launch an EC2 Instance Ubuntu (22.04) T2 medium Instance

EC2instance->Security Groups->Edit inbound Rules:

Configure Security Group

sgr-0f1507b5430012c82	Custom TCP ▼	TCP	8080	Cus... ▼	🔍	jenkins	Delete
					0.0.0.0/0 ✕		
sgr-03e471633fdb4ea3a	SSH ▼	TCP	22	Cus... ▼	🔍		Delete
					0.0.0.0/0 ✕		
sgr-0625808501ab2ec99	HTTPS ▼	TCP	443	Cus... ▼	🔍		Delete
					0.0.0.0/0 ✕		
–	Custom TCP ▼	TCP	9000	An... ▼	🔍	tomcat	Delete
					0.0.0.0/0 ✕		
–	Custom TCP ▼	TCP	587	An... ▼	🔍	emails	Delete
					0.0.0.0/0 ✕		
–	Custom TCP ▼	TCP	465	An... ▼	🔍		Delete
					0.0.0.0/0 ✕		

Add rule

```
ubuntu@ip-172-31-4-53:~/java-mavenapp/scripts$ sh  jenkins.sh
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1107 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [235 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [161 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1068 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [271 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [376 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [1171 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [243 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7080 B]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [16.3 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 B]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:20 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [25.8 kB]
Get:21 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [864 kB]
Get:22 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [159 kB]
Get:23 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:24 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [845 kB]
77% [24 Packages 122 kB/845 kB 14%]
```

Install the Jenkins.sh

```
Get:7 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Hit:8 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:9 https://pkg.jenkins.io/debian-stable binary/ Packages [29.1 kB]
Fetched 32.0 kB in 0s (81.6 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 68 not upgraded.
Need to get 92.4 MB of archives.
After this operation, 95.2 MB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 net-tools amd64 2.10-0.1ubuntu4.4 [2
Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.504.2 [92.2 MB]
Fetched 92.4 MB in 15s (6135 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 116171 files and directories currently installed.)
Preparing to unpack .../net-tools_2.10-0.1ubuntu4.4_amd64.deb ...
Unpacking net-tools (2.10-0.1ubuntu4.4) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.504.2_all.deb ...
Unpacking jenkins (2.504.2) ...
Setting up net-tools (2.10-0.1ubuntu4.4) ...
Setting up jenkins (2.504.2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /usr/lib/systemd/system/jenkins.servi
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-4-53:~/java-mavenapp/scripts$
```

Create Docker file

```
 Use a specific version of Tomcat as base image
ROM tomcat:9.0

 Expose port 8080 to access the application
XPOSE 8080

 Copy the WAR file from the target directory of your Maven project to the Tomcat webapps directory
OPY target/preeti-webapp.war /usr/local/tomcat/webapps/
 COPY target/*_war /usr/local/tomcat/webapps/
```
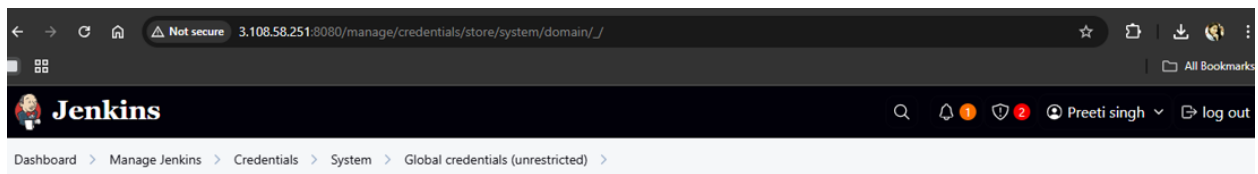
Jenkins ->Manage Jenkins ->Credentials

Add Credentials of Docker Hub

Install the tools and required Plugins in Manage Jenkins

Maven 3
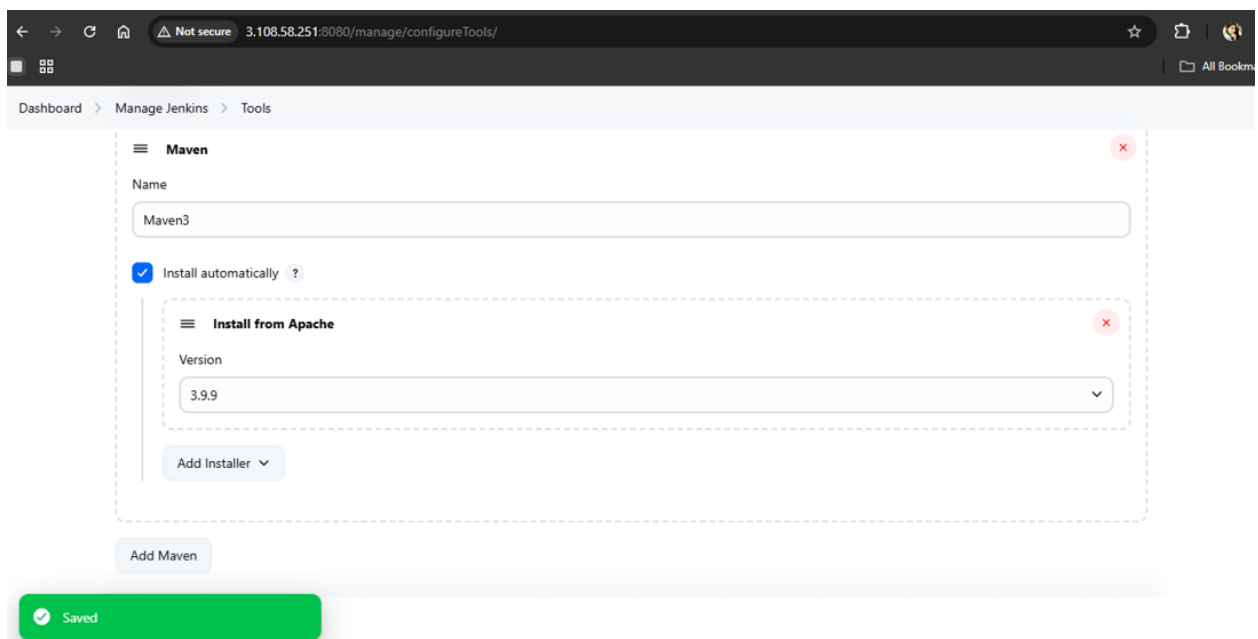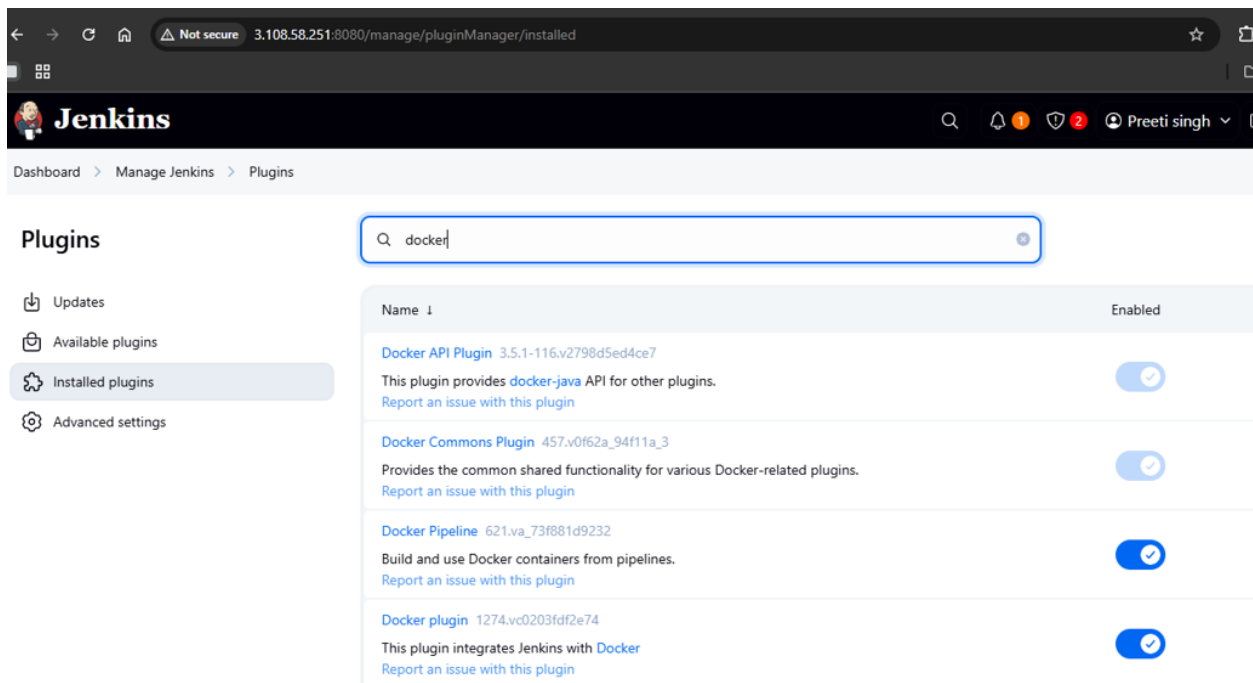
Jenkins SMTP Configuration

Please go to:

Jenkins Dashboard → Manage Jenkins → Configure System → Extended E-mail Notification

Fill in the following exact values (for Gmail):

- SMTP Server: smtp.gmail.com
- Use SMTP Authentication: ☑ checked
    - User Name: singhpreeti1618@gmail.com
    - Password: Use App Password
- SMTP Port: 587
- Use TLS: ☑ checked
- **Charset**: UTF-8

If Using Gmail, Enable App Passwords

Gmail blocks access from "less secure apps," so use an App Password.

Steps:

1. Go to https://myaccount.google.com/security

2. Enable 2-Step Verification

3. Click App Passwords

4. Generate password for Mail > Other (Custom Name: MavenApp)

5. Copy and use this password in Jenkins
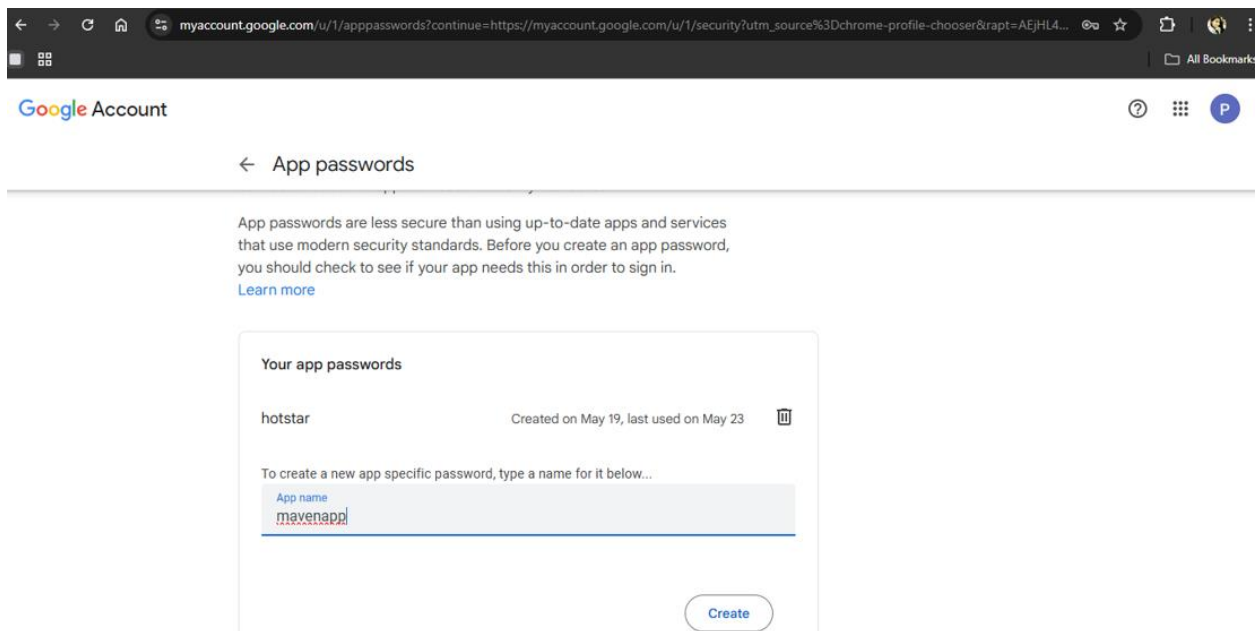
Install Email extension Plugin

Jenkins

Dashboard > Manage Jenkins > Plugins

Plugins

🔍 email

Name ↓	Enabled
Email Extension Plugin 1876.v28d8d38315b_d	
This plugin is a replacement for Jenkins's email publisher. It allows to configure every aspect of email notifications: when an email is sent, who should receive it and what the email says	✅
Report an issue with this plugin	
Mailer Plugin 489.vd4b_25144138f	
This plugin allows you to configure email notifications for build results.	✅
Report an issue with this plugin	

- ⬇ Updates ①
- 🛍 Available plugins
- **Installed plugins**
- ⚙ Advanced settings

Dashboard > Manage Jenkins > System >

E-mail Notification

SMTP server

smtp.gmail.com

Default user e-mail suffix ?

@gmail.com

Advanced ∧   ✎ Edited

✅ Use SMTP Authentication ?

User Name

singhpreeti1618@gmail.com

Password

🔒 Concealed   **Change Password**

Save   **Apply**

Extended E-mail Notification

SMTP server

smtp.gmail.com

SMTP Port

587

Advanced ⌄   ✎ Edited

Default user e-mail suffix ?

@gmail.com

Save   Apply

User Name

singhpreeti1618@gmail.com

Password

🔒 Concealed   Change Password

☐ Use SSL ?

☑ Use TLS

SMTP Port ?

587

Reply-To Address

singhpreeti1618@gmail.com

Charset

Save   Apply

Dashboard > Manage Jenkins > System >

Jenkins Credentials Provider: Jenkins

Username ?

singhpreeti1618@gmail.com

☐ Treat username as secret ?

Password ?

••••••••••••••••••

ID ?

smtp-gmail

Description ?

smtp-gmail

Cancel   Add

Dashboard > javamavenproject > Configuration

Pipeline script

Configure

⚙ General

🕐 Triggers

⌨ Pipeline

🔧 Advanced

Script ?

```
34          script{
35              withDockerRegistry(credentialsId: 'docker', toolname: 'docker'){
36
37                  sh '''docker build -t javamavenapp .
38                  docker tag javamavenapp preetis18/javamavenapp:latest
39                  docker push  preetis18/javamavenapp:latest'''
40              }
41          }
42      }
43  }
44  stage('docker container of app') {
45      steps {
46          sh 'docker run -d -p 9000:8080 --name javamavenapp_container -t preetis18/javamavenapp:
47      }
48
```

☑ Use Groovy Sandbox ?

Dashboard > javamavenproject >

Status

⊘ **javamavenproject**   ✎ Add description

</> Changes

▷ Build Now

⊙ Configure

🗑 Delete Pipeline

🔍 Full Stage View

⧇ Stages

✎ Rename

⊘ Pipeline Syntax

Stage View

	Declarative: Tool Install	Clean workspace	Git clone	maven war file build	Docker images - Push to dockerhub	docker container of app	Declarative: Post Actions
Average stage times: (full run time: ~1min 30s)	167ms	317ms	1s	3s	20s	753ms	1min 0s
#13 Jun 04 15:34 — No Changes	141ms	281ms	1s	3s	27s	789ms	1min 0s
#12 Jun 04 15:28 — No Changes	132ms	288ms	1s	3s	17s	624ms failed	1min 0s

Builds ⋯ ⤢

🔍 Filter /

#11

🎭 **Jenkins**   🔍 🔔1 🛡2 ⊙ Preeti singh ⌄ ⇥ log out

Dashboard > javamavenproject > #13

Status

⊘ **Console Output**   ⬇ Download   📋 Copy   View as plain text

</> Changes

▣ Console Output

☑ Edit Build Information

🗑 Delete build '#13'

⊙ Timings

◈ Git Build Data

ʸ Pipeline Overview
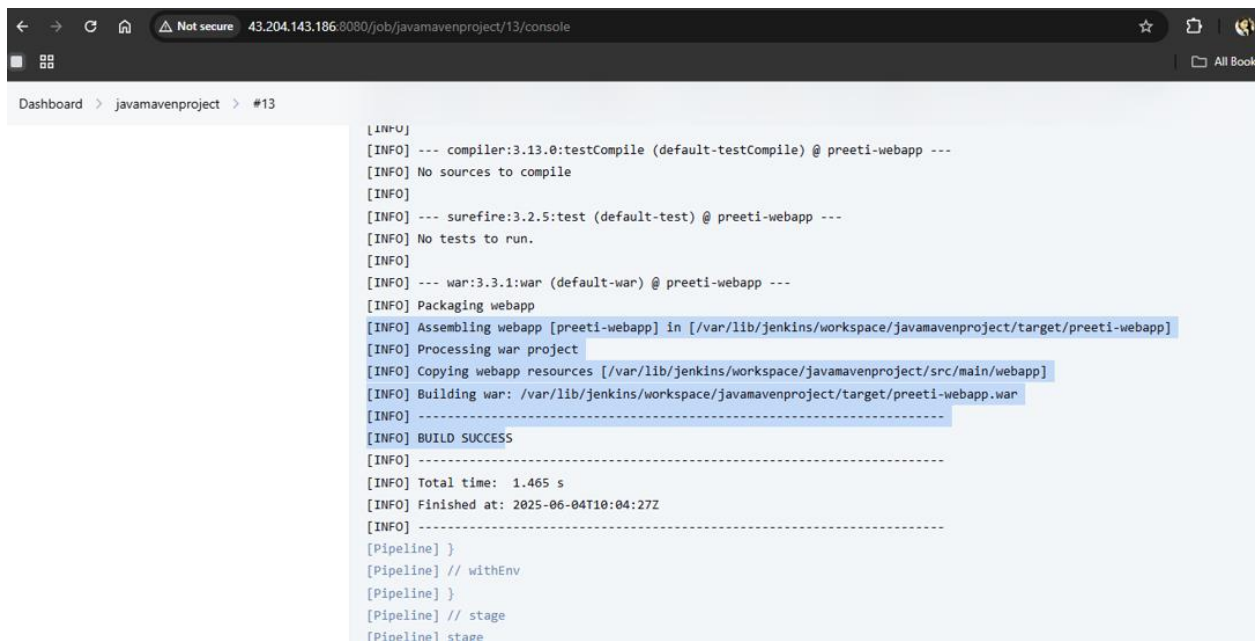
↻ Restart from Stage

↪ Replay

☰ Pipeline Steps

🗀 Workspaces
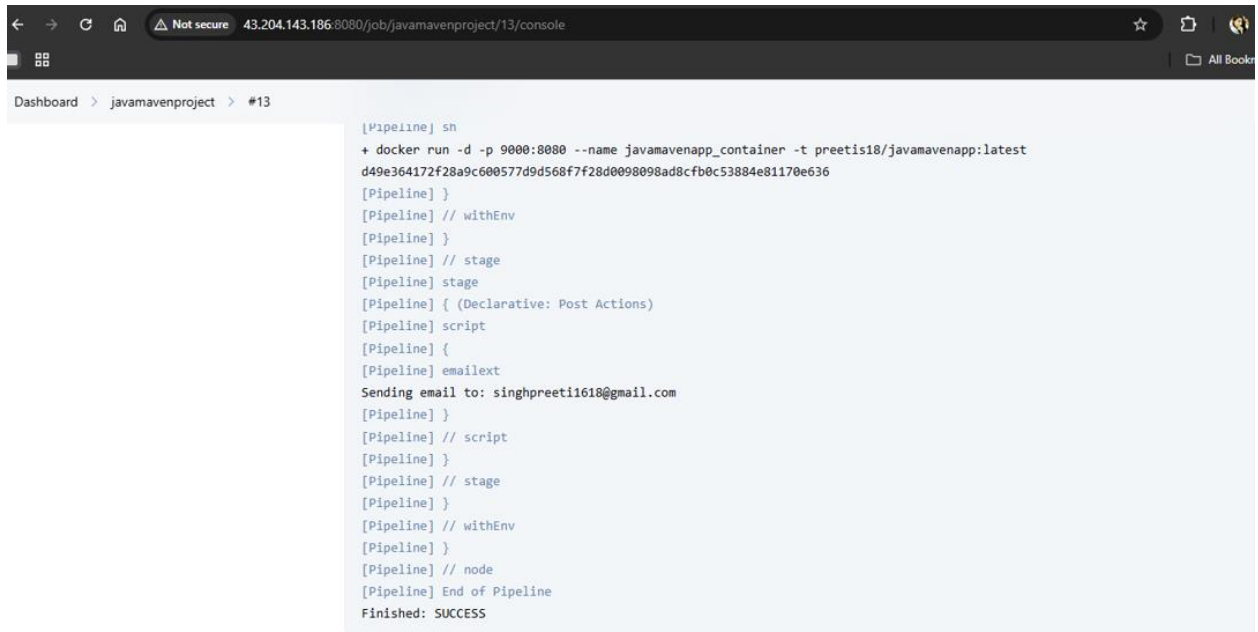
```
Started by user Preeti singh
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/javamavenproject
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Tool Install)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clean workspace)
[Pipeline] tool
[Pipeline] envVarsForTool
```

War file is created from pom.xml using Maven build tool

Gmail Alert for Pipeline Success

Image successfully pushed to Docker Hub

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-mapping/3.0.0/maven-mapping-3.0.0.jar (11 kB at 71 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.1.1/maven-filtering-3.1.1.jar (51 kB at 339 kB/
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-build-api/0.0.7/plexus-build-api-0.0.7.jar (8.5 kB at 57 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.3.0/plexus-utils-3.3.0.jar (263 kB at 1.7 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.20/commons-compress-1.20.jar (632 kB at 3.9 MB/s)
[INFO] Packaging webapp
[INFO] Assembling webapp [preeti-webapp] in [/home/ubuntu/java-mavenapp/target/preeti-webapp]
[INFO] Processing war project
[INFO] Copying webapp resources [/home/ubuntu/java-mavenapp/src/main/webapp]
[INFO] Building war: /home/ubuntu/java-mavenapp/target/preeti-webapp.war
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  4.595 s
[INFO] Finished at: 2025-06-04T08:56:59Z
[INFO] ------------------------------------------------------------------------
ubuntu@ip-172-31-4-53:~/java-mavenapp$ ls target/
maven-archiver  preeti-webapp  preeti-webapp.war
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker build -t mavenwebapp .
[+] Building 7.2s (4/6)
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 367B
 => [internal] load metadata for docker.io/library/tomcat:9.0
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load build context
 => => transferring context: 111.57kB
 => [1/2] FROM docker.io/library/tomcat:9.0@sha256:84762095b73442ac961de80503044307201026093fc1f0047d410f901c1b7674
 => => resolve docker.io/library/tomcat:9.0@sha256:84762095b73442ac961de80503044307201026093fc1f0047d410f901c1b7674  6.64kB / 6.64kB
 => => sha256:84762095b73442ac961de80503044307201026093fc1f0047d410f901c1b7674  6.64kB / 6.64kB
 => => sha256:99e9d46424c68eab9c7c025f16589f296e799e0f6e398eeee148ee64d32014c3  12.51kB / 12.51kB
 => => sha256:fdf9441e6dddb8defe5d23ab009dd1a3d91ad4f953b4d53d9e904e1adcae03de  157.65MB / 157.65MB
 => => sha256:0c7e27812d2329db8792622546d058bf632eb79c381b0e706d9adb6d3391e9B4  2.72kB / 2.72kB
 => => sha256:d9d352c11bbd3880007953ed6eec1cbace76898828f3434984a0ca60672fdf5a  29.72MB / 29.72MB
 => => sha256:380ab39b4f9f66f5491f1e6c6e1b00af781c9e67017d5194267c1eb1b1ea9d61  22.95MB / 22.95MB
 => => sha256:14ea0157e6cfd88563f52f3de2252f96d1de76755323a4e666dc06bfdc169362  157B / 157B
 => => extracting sha256:d9d352c11bbd3880007953ed6eec1cbace76898828f3434984a0ca60672fdf5a
 => => sha256:99f05f209f6fd19181ffd50612236193ad46991100ff9ffc79e5b5d7f15f0e06  2.28kB / 2.28kB
 => => sha256:3b875137730abed859d01d7a8f7d68f7258ad5d57f348c02146d6b859e5a739a  137B / 137B
 => => sha256:4f4fb700ef54461cfa02571ae0db9a0dc1e0cdb5577484a6d75e68dc30e8acc1  32B / 32B
 => => sha256:3ecB3758f446f482d9461a2a3839d8eecff1a8cf54d3ff569e335fc1a28373e9  13.93MB / 13.93MB
 => => extracting sha256:380ab39b4f9f66f5491f1e6c6e1b00af781c9e67017d5194267c1eb1b1ea9d61
 => => extracting sha256:fdf9441e6dddb8defe5d23ab009dd1a3d91ad4f953b4d53d9e904e1adcae03de
```
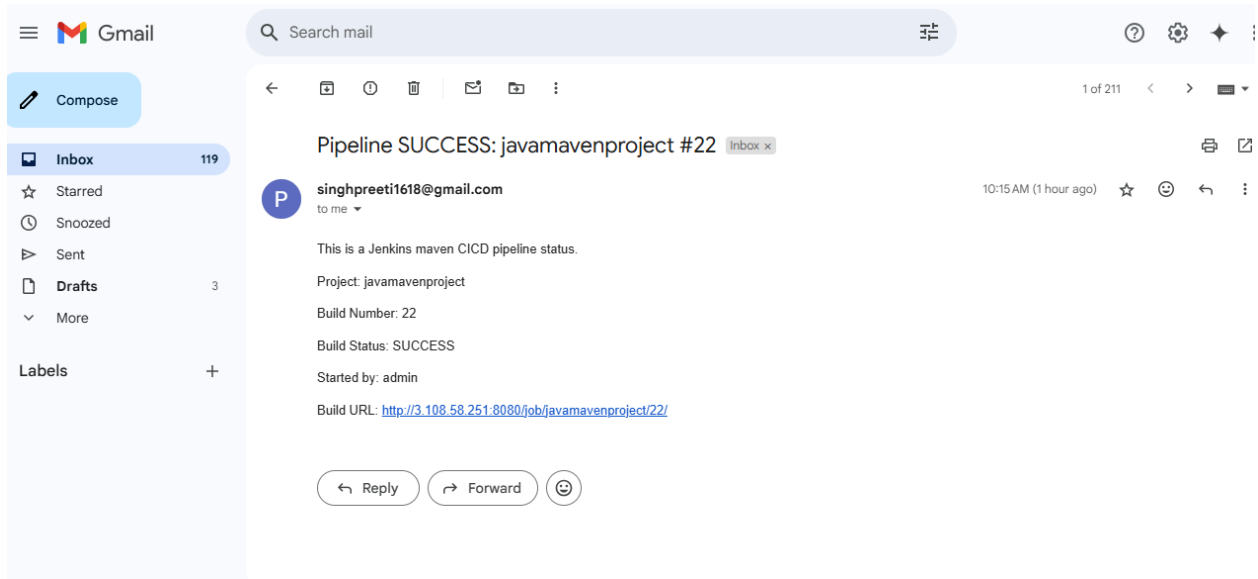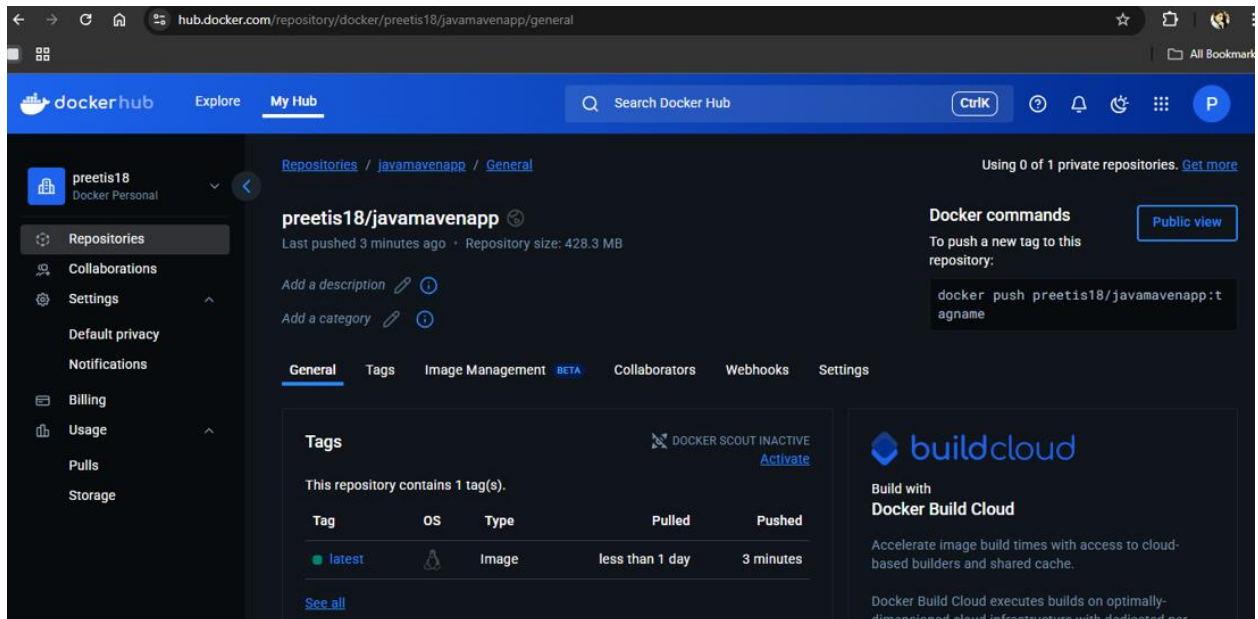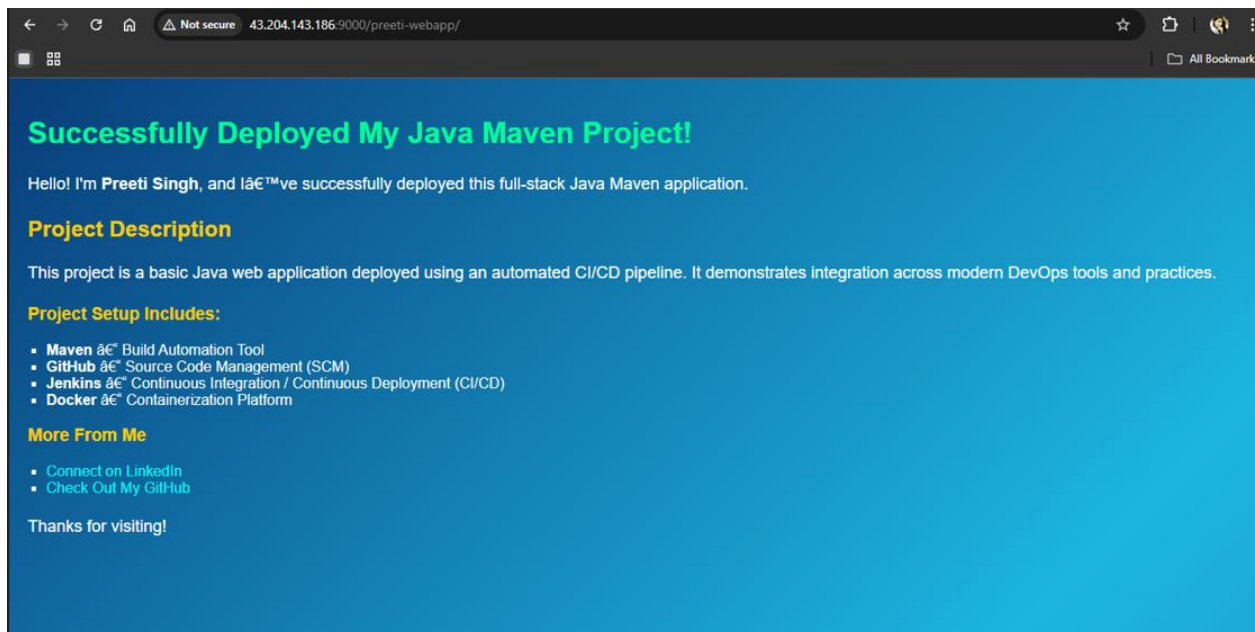
```
[INFO] Total time:  1.336 s
[INFO] Finished at: 2025-06-04T09:25:54Z
[INFO] ------------------------------------------------------------------
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker images
REPOSITORY    TAG      IMAGE ID       CREATED         SIZE
javamavenapp  latest   c09aa27ed01e   25 minutes ago  469MB
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker rmi javamavenapp:latest
Error response from daemon: conflict: unable to remove repository reference "javamavenapp:latest" (must force) - container 51a05211ebea is using its referenced image
9aa27ed01e
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker ps
CONTAINER ID   IMAGE                COMMAND            CREATED         STATUS         PORTS                                              NAMES
51a05211ebea   javamavenapp:latest  "catalina.sh run"  2 minutes ago   Up 2 minutes   0.0.0.0:9000->8080/tcp, [::]:9000->8080/tcp         javamavenapp_container
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker stop 51a05211ebea
51a05211ebea
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker rm 51a05211ebea
51a05211ebea
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker rmi javamavenapp:latest
Untagged: javamavenapp:latest
Deleted: sha256:c09aa27ed01e385b35baf202dfd7bbb8bb7b4eda4f8668737ffcbfe5e308411c
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker ps
CONTAINER ID   IMAGE      COMMAND    CREATED   STATUS    PORTS      NAMES
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker images
REPOSITORY   TAG      IMAGE ID   CREATED   SIZE
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker build . -t javamavenapp
[+] Building 1.6s (7/7) FINISHED                                                                              docker:defa
 => [internal] load build definition from Dockerfile                                                                    0
 => => transferring dockerfile: 367B                                                                                    0
 => [internal] load metadata for docker.io/library/tomcat:9.0                                                           1
 => [internal] load .dockerignore                                                                                       0
 => => transferring context: 2B                                                                                         0
 => [internal] load build context                                                                                       0
 => => transferring context: 111.53kB                                                                                   0
 => CACHED [1/2] FROM docker.io/library/tomcat:9.0@sha256:84762095b73442ac961de80503044307201026093fc1f0047d410f901c1b7674  0
 => [2/2] COPY target/preeti-webapp.war /usr/local/tomcat/webapps/                                                      0
 => exporting to image                                                                                                  0
 => => exporting layers                                                                                                 0
 => => writing image sha256:8771d31893c3ffd016379f869d7e8efc8db485b3f3fe9bb0d020f1cb708c3fd2                            0
 => => naming to docker.io/library/javamavenapp                                                                         0
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker run -d -p 9000:8080 --name javamaven_container javamavenapp:latest
23128e55f1795670aecd13b6a75519b5881833dce3e9d6e5b8894e8232e6d7a1
ubuntu@ip-172-31-4-53:~/java-mavenapp$ docker ps
CONTAINER ID   IMAGE                COMMAND            CREATED        STATUS        PORTS                                              NAMES
23128e55f179   javamavenapp:latest  "catalina.sh run"  3 seconds ago  Up 2 seconds  0.0.0.0:9000->8080/tcp, [::]:9000->8080/tcp        javamaven_container
ubuntu@ip-172-31-4-53:~/java-mavenapp$
```

```
ubuntu@ip-172-31-4-53: ~/java-mavenapp                                                                                    —  □  ×
        at Jenkins Main ClassLoader//org.eclipse.jetty.server.ServerConnector.openAcceptChannel(ServerConnector.java:344)
Caused: java.io.IOException: Failed to bind to 0.0.0.0/0.0.0.0:8080
        at Jenkins Main ClassLoader//org.eclipse.jetty.server.ServerConnector.openAcceptChannel(ServerConnector.java:349)
        at Jenkins Main ClassLoader//org.eclipse.jetty.server.ServerConnector.open(ServerConnector.java:313)
        at Jenkins Main ClassLoader//org.eclipse.jetty.server.Server.lambda$doStart$0(Server.java:571)
        at java.base/java.util.stream.ForEachOps$ForEachOp$OfRef.accept(ForEachOps.java:183)
        at java.base/java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:197)
        at java.base/java.util.stream.ReferencePipeline$2$1.accept(ReferencePipeline.java:179)
        at java.base/java.util.stream.Spliterators$ArraySpliterator.forEachRemaining(Spliterators.java:992)
        at java.base/java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:509)
        at java.base/java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:499)
        at java.base/java.util.stream.ForEachOps$ForEachOp.evaluateSequential(ForEachOps.java:150)
        at java.base/java.util.stream.ForEachOps$ForEachOp$OfRef.evaluateSequential(ForEachOps.java:173)
        at java.base/java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)
        at java.base/java.util.stream.ReferencePipeline.forEach(ReferencePipeline.java:596)
        at Jenkins Main ClassLoader//org.eclipse.jetty.server.Server.doStart(Server.java:567)
        at Jenkins Main ClassLoader//org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:93)
        at Jenkins Main ClassLoader//winstone.Launcher.<init>(Launcher.java:188)
Caused: java.io.IOException: Failed to start Jetty
        at Jenkins Main ClassLoader//winstone.Launcher.<init>(Launcher.java:192)
        at Jenkins Main ClassLoader//winstone.Launcher.main(Launcher.java:488)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)
        at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.base/java.lang.reflect.Method.invoke(Method.java:569)
        at executable.Main.main(Main.java:335)
ubuntu@ip-172-31-4-53:~/java-mavenapp$ sudo su -jenkins
su: invalid option -- 'j'
Try 'su --help' for more information.
ubuntu@ip-172-31-4-53:~/java-mavenapp$ sudo su - jenkins
jenkins@ip-172-31-4-53:~$ docker images
REPOSITORY             TAG       IMAGE ID       CREATED        SIZE
javamavenapp           latest    7915fafe482d   8 minutes ago  469MB
preetis18/javamavenapp latest    7915fafe482d   8 minutes ago  469MB
jenkins@ip-172-31-4-53:~$ docker ps
CONTAINER ID   IMAGE                          COMMAND           CREATED        STATUS        PORTS                                            NAMES
d49e364172f2   preetis18/javamavenapp:latest  "catalina.sh run" 8 minutes ago  Up 8 minutes  0.0.0.0:9000->8080/tcp, [::]:9000->8080/tcp  javamavenapp_container
jenkins@ip-172-31-4-53:~$ _
```


Successfully Deployed My Java Maven Project!

Hello! I'm **Preeti Singh**, and Iâ€™ve successfully deployed this full-stack Java Maven application.

Project Description

This project is a basic Java web application deployed using an automated CI/CD pipeline. It demonstrates integration across modern DevOps tools and practices.

Project Setup Includes:

- **Maven** â€" Build Automation Tool
- **GitHub** â€" Source Code Management (SCM)
- **Jenkins** â€" Continuous Integration / Continuous Deployment (CI/CD)
- **Docker** â€" Containerization Platform

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Thanks for visiting!

Thanks for viewing!

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