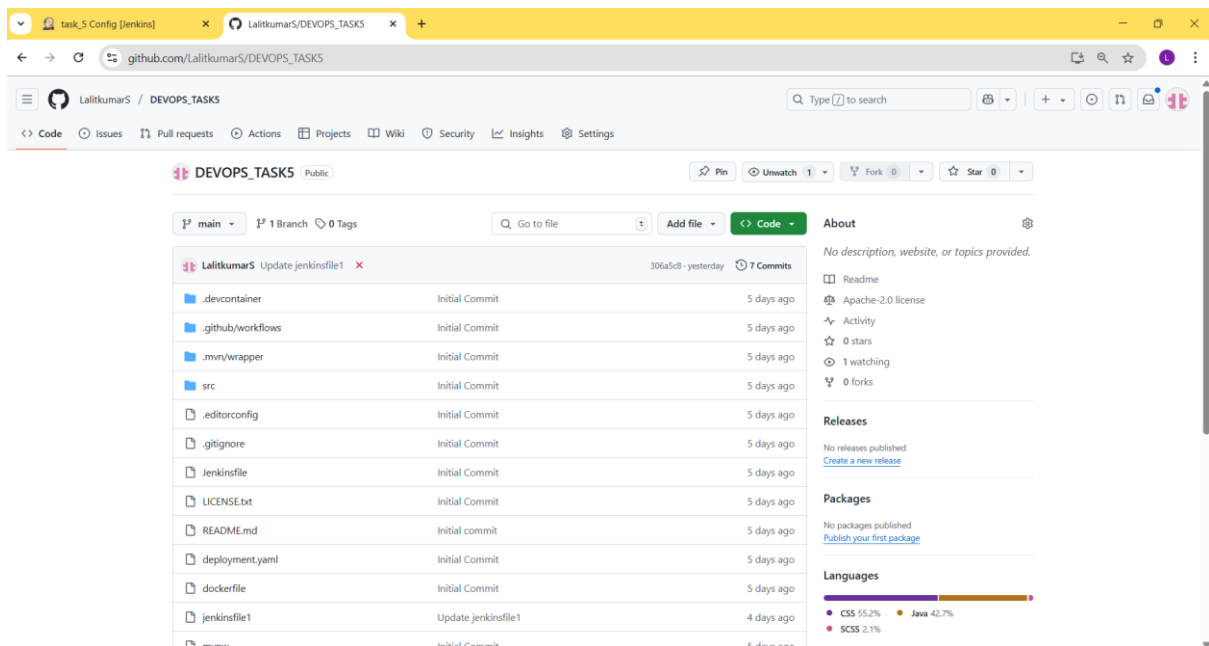


## Github Clone:



Add the tool:

Name: Maven 3.9.6

Maven path :/opt/maven

After Build add the scripted Pipeline:

```
pipeline {
```

```
    agent any
```

```
    environment {
```

```
        DOCKER_IMAGE = "lalitkumars/maven_task"
```

```
        DOCKER_TAG = "latest"
```

```
        DOCKER_CREDENTIALS_ID = "docker"
```

```
        GITHUB_CREDENTIALS_ID = "github_secured"
```

```
        KUBECONFIG = "/var/lib/jenkins/.kube/config"
```

```
    }
```

```
stages {  
    stage('Checkout Code') {  
        steps {  
            git branch: 'main', credentialsId: 'github_secured', url:  
'https://github.com/LalitkumarS/DEVOPS_TASK5'  
        }  
    }  
  
    stage('Build Application') {  
        steps {  
            script {  
                sh '${MAVEN_HOME}/bin/mvn clean package -DskipTests'  
            }  
        }  
    }  
  
    stage('Run Maven Tests') {  
        steps {  
            script {  
                try {  
                    sh 'mvn test'  
                } catch (Exception e) {  
                    echo "Tests failed, but proceeding..."  
                }  
            }  
        }  
    }  
}
```

```
}
```

```
stage('Build Docker Image') {
```

```
  steps {
```

```
    script {
```

```
      sh "docker build -t ${DOCKER_IMAGE}:${DOCKER_TAG} ."
```

```
    }
```

```
  }
```

```
}
```

```
stage('Push Docker Image') {
```

```
  steps {
```

```
    withDockerRegistry([credentialsId: DOCKER_CREDENTIALS_ID, url: '']) {
```

```
      sh "docker push ${DOCKER_IMAGE}:${DOCKER_TAG}"
```

```
    }
```

```
  }
```

```
}
```

```
// stage('Deploy to Kubernetes') {
```

```
//   steps {
```

```
//     script {
```

```
//       sh ""
```

```
//         chmod +x scripts/deploy.sh
```

```
//         ./scripts/deploy.sh
```

```
//       ""
```

```
//     }
```

```

// }

//}

}

post {

    success {

        echo "Deployment Successful!"

    }

    failure {

        echo "Deployment Failed!"

    }

}

}

```

The screenshot shows the Jenkins web interface for a pipeline named 'task\_5'. The interface includes a sidebar with navigation options like 'Status', 'Changes', 'Build Now', 'Configure', 'Delete Pipeline', 'Full Stage View', 'Stages', 'Rename', and 'Pipeline Syntax'. The main content area displays the 'task\_5' pipeline status as 'Completed' with a green checkmark. Below this, the 'Stage View' section shows a table of stages and their durations. The 'Permalinks' section provides links to the last build, last stable build, last successful build, and last completed build, all of which are build #7, completed 20 minutes ago.

Checkout Code	Build Application	Run Maven Tests	Build Docker Image	Push Docker Image	Declarative: Post Actions
2s	20s	31s	1min 10s	46s	453ms

Average stage times: (full run time: ~3min 0s)

Builds

- Last build (#7), 20 min ago
- Last stable build (#7), 20 min ago
- Last successful build (#7), 20 min ago
- Last completed build (#7), 20 min ago

task\_5 #7 Console [Jenkins] x LalitkumarS/DEVOPS\_TASKS x +

localhost:8080/job/task\_5/7/console

Dashboard > task\_5 > #7

```
4b7c01ed0534: Waiting
49cb1bc2daeb: Layer already exists
6fbd02a6a33: Layer already exists
5f70bf18a086: Layer already exists
f844dcf94898: Layer already exists
39cf0ac89a5a: Layer already exists
4e5b554b7345: Layer already exists
3359bc3d7a6a: Layer already exists
4b7c01ed0534: Layer already exists
4428bce3421c: Pushed
latest: digest: sha256:a5e70a63ffb88b011928bd5f6ed6ca2a4b04f64ea08980c6da1769fac05b2e1a size: 2413
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Deployment Successful!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API Jenkins 2.492.2

task\_5 #7 [Jenkins] x LalitkumarS/DEVOPS\_TASKS x +

localhost:8080/job/task\_5/7/

Jenkins

Dashboard > task\_5 > #7

Status #7 (Mar 26, 2025, 3:40:22 PM) Add description Keep this build forever

Changes

Console Output

Edit Build Information

Delete build #7

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Restart from Stage

Replay

Pipeline Steps

Workspaces

Started by user Lalitkumar

This run spent:

- 96 ms waiting;
- 3 min 0 sec build duration;
- 3 min 0 sec total from scheduled to completion.

Revision: 306a5c88a62d1948d7eb6fee0c9dff8ec72c9164

Repository: [https://github.com/LalitkumarS/DEVOPS\\_TASKS](https://github.com/LalitkumarS/DEVOPS_TASKS)

- refs/remotes/origin/main

No changes.

Started 22 min ago

Took 3 min 0 sec

REST API Jenkins 2.492.2

## TERMINAL:

```
lalit@RETRO: ~  
26-Mar-2025 15:51:49.738 INFO [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet engine: [Apache Tomcat/11.0.5]  
26-Mar-2025 15:51:49.885 INFO [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [/usr/local/tomcat/webapps/ROOT.war]  
26-Mar-2025 15:51:53.110 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.  
INFO ContextLoader - Root WebApplicationContext: initialization started  
INFO LogHelper - HHH000204: Processing PersistenceUnitInfo [name: petclinic]  
INFO Version - HHH000042: Hibernate ORM core version 6.4.4.Final  
INFO RegionFactoryInitiator - HHH000025: Second-level cache region factory [org.hibernate.cache.jcache.internal.JCacheRegionFactory]  
INFO SpringPersistenceUnitInfo - No LoadTimeWeaver setup; ignoring JPA class transformer  
WARN deprecation - HHH90000025: H2Dialect does not need to be specified explicitly using 'hibernate.dialect' (remove the property setting and it will be selected by default)  
INFO Version - HV000001: Hibernate Validator 8.0.1.Final  
INFO JtaPlatformInitiator - HHH000489: No JTA platform available (set 'hibernate.transaction.jta.platform' to enable JTA platform integration)  
INFO LocalContainerEntityManagerFactoryBean - Initialized JPA EntityManagerFactory for persistence unit 'petclinic'  
INFO ContextLoader - Root WebApplicationContext initialized in 4899 ms  
INFO DispatcherServlet - Initializing Servlet 'dispatcher'  
INFO DispatcherServlet - Completed initialization in 839 ms  
26-Mar-2025 15:51:59.305 INFO [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [/usr/local/tomcat/webapps/ROOT.war] has finished in [9,420] ms  
26-Mar-2025 15:51:59.310 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]  
26-Mar-2025 15:51:59.349 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [9679] milliseconds  
26-Mar-2025 15:53:41.226 INFO [Thread-2] org.apache.coyote.AbstractProtocol.pause Pausing ProtocolHandler ["http-nio-8080"]  
26-Mar-2025 15:53:41.248 INFO [Thread-2] org.apache.catalina.core.StandardService.stopInternal Stopping service [Catalina]  
INFO LocalContainerEntityManagerFactoryBean - Closing JPA EntityManagerFactory for persistence unit 'petclinic'  
WARN cache - HHH90001002: Attempt to restart an already stopped JCacheRegionFactory.  
26-Mar-2025 15:53:41.325 WARNING [Thread-2] org.apache.catalina.loader.WebappClassLoaderBase.clearReferencesJdbc The web application [ROOT] registered the JDBC driver [org.h2.Driver] but failed to unregister it when the web application was stopped. To prevent a memory leak, the JDBC Driver has been forcibly unregistered.  
26-Mar-2025 15:53:41.326 WARNING [Thread-2] org.apache.catalina.loader.WebappClassLoaderBase.clearReferencesThreads The web application [ROOT] appears to have started a thread named [Tomcat JDBC Pool Cleaner[1075803699:1743004315648]] but has failed to stop it. This is very likely to create a memory leak. Stack trace of thread:  
java.base/java.lang.Object.wait@0(Native Method)  
java.base/java.lang.Object.wait@0(Object.java:366)  
java.base/java.util.TimerThread.mainLoop@0(Timer.java:563)  
java.base/java.util.TimerThread.run@0(Timer.java:516)  
26-Mar-2025 15:53:41.340 INFO [Thread-2] org.apache.coyote.AbstractProtocol.stop Stopping ProtocolHandler ["http-nio-8080"]  
26-Mar-2025 15:53:41.357 INFO [Thread-2] org.apache.coyote.AbstractProtocol.destroy Destroying ProtocolHandler ["http-nio-8080"]  
root@cd9a99fd6db:/usr/local/tomcat# exit  
lalit@RETRO: ~$
```

```
lalit@RETRO: ~  
lalit@RETRO:~$ docker run -d -p 9091:8080 lalitkumars/maven_task:latest  
4a63da7112d2af859869627146ce8fe24d6a189ca8166faf03fd9758a387d3cb  
lalit@RETRO:~$
```

## OUTPUT:

