

Jenkins Pipeline Script

```
pipeline {  
    agent {  
        label 'dev'  
    }  
    tools {  
        maven 'mymaven'  
        jdk 'jdk17'  
        nodejs 'node16'  
    }  
    stages {  
        stage('clean work space') {  
            steps {  
                cleanWs()  
            }  
        }  
  
        stage('Checkout Code') {  
            steps {  
                git 'https://github.com/PrathimaVyas/dockerwebapp.git'  
            }  
        }  
  
        stage('code quality Analysis') {  
            steps {
```

```
withSonarQubeEnv('mysonar') {  
  
    sh 'mvn clean verify sonar:sonar -Dsonar.projectKey=zomato'  
  
}  
  
}  
  
}
```

```
stage('Quality Gates') {  
  
    steps {  
  
        script {  
  
            waitForQualityGate abortPipeline: false, credentialsId: 'sonar'  
  
        }  
  
    }  
  
}
```

```
stage('Build the Code') {  
  
    steps {  
  
        sh 'mvn clean package'  
  
        sh 'mkdir -p Docker-app/target && cp -r target/* Docker-app/target/'  
  
    }  
  
}
```

```
stage('Deploy war file to Nexus') {  
  
    steps {  
  
        sh 'ls -l'  
  
        sh 'pwd'  
  
        nexusArtifactUploader artifacts: [[artifactId: 'vprofile', classifier: '', file: 'target/vprofilev2.war', type: 'war']],
```

credentialsId: 'nexus', groupId: 'com.visualpathit', nexusUrl: '34.227.87.113:8081', nexusVersion: 'nexus3', protocol:
'http', repository: 'DockerProject', version: 'v2'

}

}

stage('create docker image') {

steps {

sh 'docker build -t prathima77/docker-app:v1 Docker-app'

sh 'docker build -t prathima77/docker-db:v1 Docker-db'

}

}

stage('scan Docker image') {

steps {

echo 'Scanning Docker images using Trivy...'

sh 'trivy image prathima77/docker-app:v1'

sh 'trivy image prathima77/docker-db:v1'

}

}

stage('Push to Docker Hub') {

steps {

withDockerRegistry(credentialsId: 'docker', url: '') {

sh 'docker push prathima77/docker-app:v1'

sh 'docker push prathima77/docker-db:v1'

}

```
    }  
  }  
  
  stage('Deploy Docker Stack') {  
    steps {  
      sh 'docker stack deploy newstack --compose-file=compose.yml'  
    }  
  }  
}  
  
post {  
  always {  
    slackSend channel: 'all-docker-project',  
              message: "**${currentBuild.currentResult}:* Job ${env.JOB_NAME}  
Build ${env.BUILD_NUMBER}  
More info at: ${env.BUILD_URL}"  
  }  
}  
}
```

SONARQUBE OUTPUT

Sonatype Nexus Repository x Projects

Not secure | 54.162.131.178:9000/projects

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sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

Search for projects...

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Filters

Quality Gate

Passed 1

Failed 0

Reliability (Bugs)

A rating 0

B rating 0

C rating 0

D rating 0

E rating 1

Security (Vulnerabilities)

A rating 0

B rating 0

C rating 0

D rating 1

E rating 0

Security Review (Security Hotspots)

Search by project name or key

1 project(s)

Perspective: Overall Status Sort by: Name

Create Project

Devops Webapp Passed Last analysis: 2 minutes ago

Bugs 40 E Vulnerabilities 2 D Hotspots Reviewed 0.0% E Code Smells 138 A Coverage 6.7% Duplications 4.8% Lines 3.3k JSP, Java...

1 of 1 shown

Embedded database should be used for evaluation purposes only

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA

Community Edition - v9.9.8 (build 100196) - [LGPL v3](#) - [Community](#) - [Documentation](#) - [Plugins](#) - [Web](#) To switch input methods, press Windows key + space.

English (India) English (India)

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Sonatype Nexus Repository x Devops Webapp

Not secure | 54.162.131.178:9000/dashboard?id=zomato

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Search for projects...

Devops Webapp main

May 12, 2025 at 2:56 PM Version v2

Overview Issues Security Hotspots Measures Code Activity

Project Settings Project Information

QUALITY GATE STATUS

Passed

All conditions passed.

MEASURES

New Code

Since May 12, 2025

Started 46 minutes ago

Overall Code

40 Bugs Reliability E

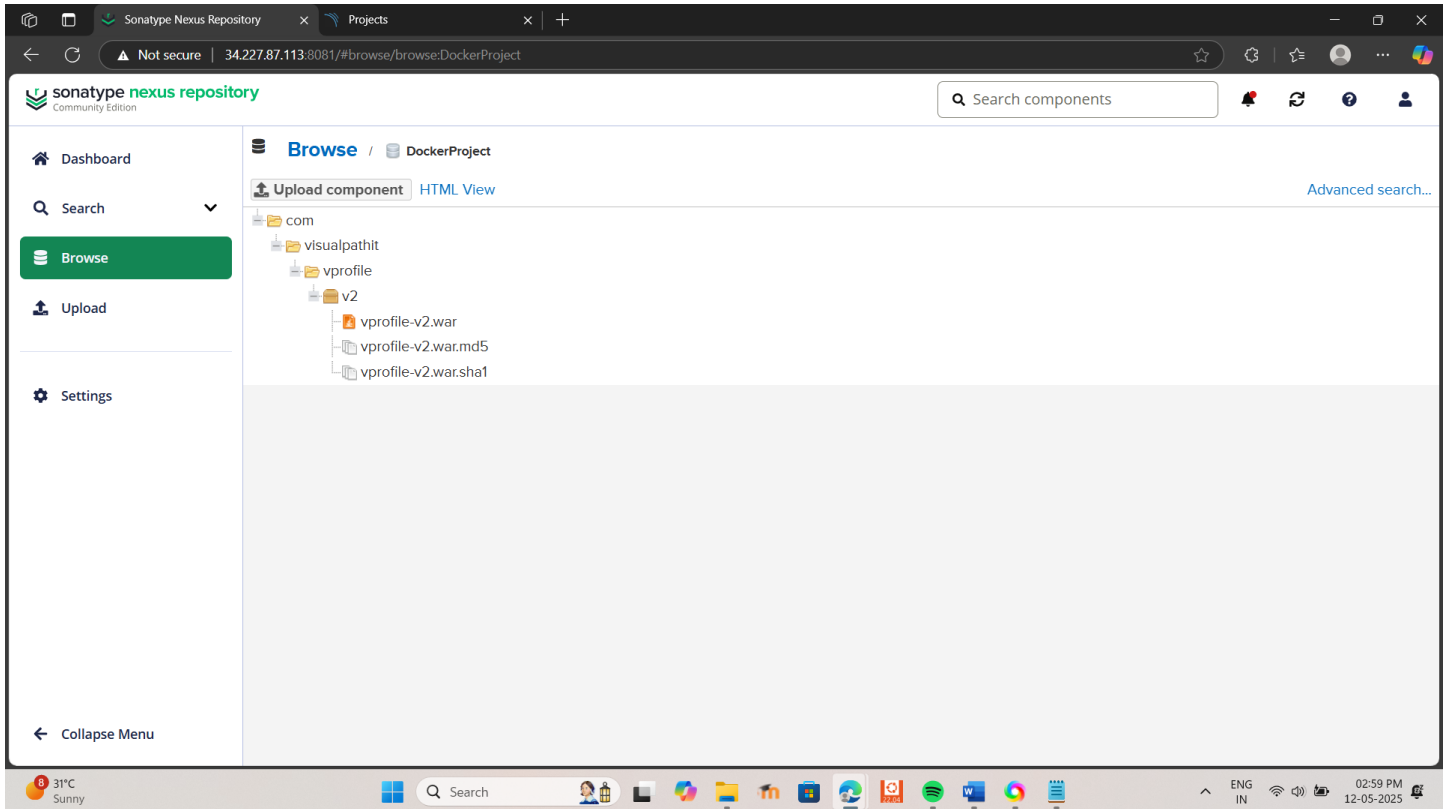
2 Vulnerabilities Security D

13 Security Hotspots 0.0% Reviewed Security Review E

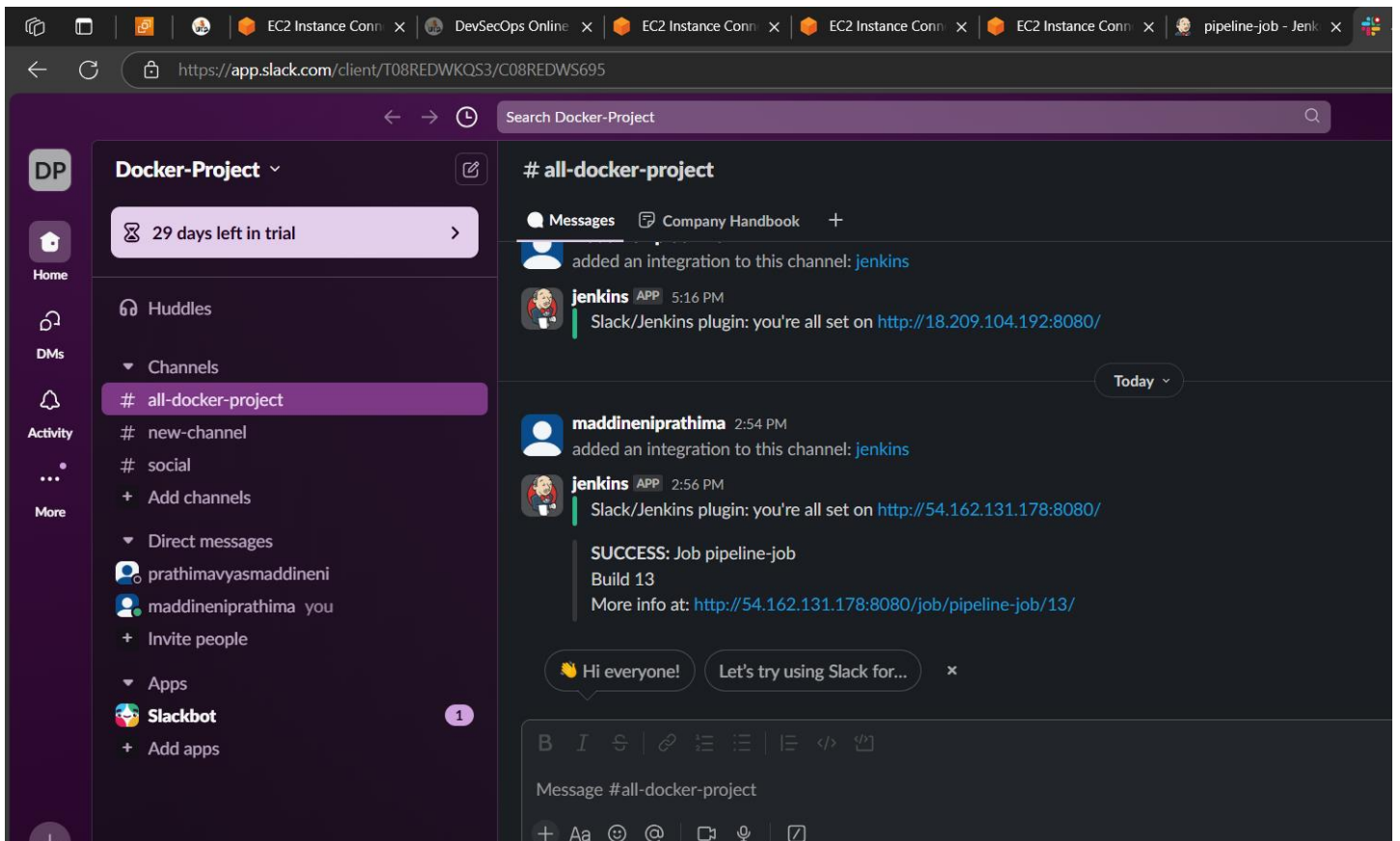
2d 1h Debt 138 Code Smells Maintainability A

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NEXUS OUTPUT



SLACK OUTPUT



PIPELINE STAGE VIEW

(WE CAN SEE ALL STAGES OUTPUTS IN LOGS HERE)

pipeline-job - Jenkins

Not secure | 54.162.131.178:8080/job/pipeline-job/

Jenkins

prathima

log out

Dashboard > pipeline-job >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

SonarQube

Stages

Rename

Pipeline Syntax

pipeline-job

Add description

Average stage times:
(full run time: ~1min 1s)

	Declarative: Tool Install	clean work space	Checkout Code	code quality Analysis	Build the Code	Deploy war file to Nexus	create docker image	scan Docker image	Push to Docker Hub	Deploy Docker Stack	Declarative: Post Actions
May 12 15:20 No Changes	245ms	323ms	628ms	31s	11s	2s	3s	18s	6s	1s	124ms
May 12 15:02 No Changes	217ms	342ms	658ms	31s	11s	2s	3s	317ms	6s	1s	173ms
May 12 14:56 No Changes	223ms	329ms	631ms	30s	11s	2s	3s	586ms	6s	1s	144ms
May 12 14:51 No Changes	210ms	333ms	621ms	31s	10s	2s	3s	579ms	6s	1s	133ms

Builds

Filter

Today

#15 9:50 AM

#14 9:32 AM

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Search

ENG IN

03:22 PM 12-05-2025