

DEVSECOPS - PROJECT-2

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PROJECT:To implement security measure in a CI/CD pipeline

PIPELINE:

```
pipeline{
  agent any

  stages{
    stage('clone'){
      steps{
        checkout scmGit(branches: [[name: '*/dev']], extensions: [], userRemoteConfigs: [[url:
                                                                                          'https://github.com/Thiru799/taxi-
                                                                                          booking.git']])
      }
    }
    stage('validate'){
      steps{
        sh'mvn validate'
      }
    }
    stage('compile'){
      steps{
        sh'mvn compile'
      }
    }
    stage('test'){
      steps{
        sh'mvn test'
```

```

    }
}

stage('package'){

    steps{

        sh'mvn package'

    }

}

stage('sonar code quality'){

    steps{

        sh "'mvn clean verify sonar:sonar \
-Dsonar.projectKey=taxi_booking1 \
-Dsonar.projectName='taxi_booking' \
-Dsonar.host.url=http://107.22.133.180:9000 \
-Dsonar.token=sqp_4e5e2b3d9fa7fb68dee4fbb5e0a53b92d52434ca'"

    }

}

stage('dependency check'){

    steps{

        dependencyCheck additionalArguments: '--scan ./ -- format XML ', odciInstallation: 'DP-
        CHECK'

        dependencyCheckPublisher pattern: '**/dependency-check-report.xml'

    }

}

stage('depoy to nexus'){

    steps{

        nexusArtifactUploader artifacts: [[artifactId: 'maven-project', classifier: '', file:
        '/var/lib/jenkins/workspace/project2/taxi-
        booking/target/taxi-booking-1.0.1.war',
        type: 'war']], credentialsId: 'nexus5',
        groupId: 'com.example.maven-project',
        nexusUrl: '54.166.60.46:8081',
        nexusVersion: 'nexus3', protocol: 'http',

```

```
repository: 'maven-snapshots', version: '1.0-SNAPSHOT'
```

```
}
```

```
}
```

```
stage('deploy to tomcat'){
```

```
  steps{
```

```
    deploy adapters: [tomcat9(credentialsId: 'tomcat4', path: '', url:
                                                                'http://18.208.221.26:8080/)], contextPath:
                                                                null, war: '**/*.war'
```

```
  }
```

```
}
```

```
stage('docker build and push'){
```

```
  steps{
```

```
    script{
```

```
      withDockerRegistry(credentialsId: 'docker', toolName: 'docker') {
```

```
        sh 'docker build -t thirapthirao/petshop:latest .'
```

```
        sh 'docker push thirapthirao/petshop:latest'
```

```
      }
```

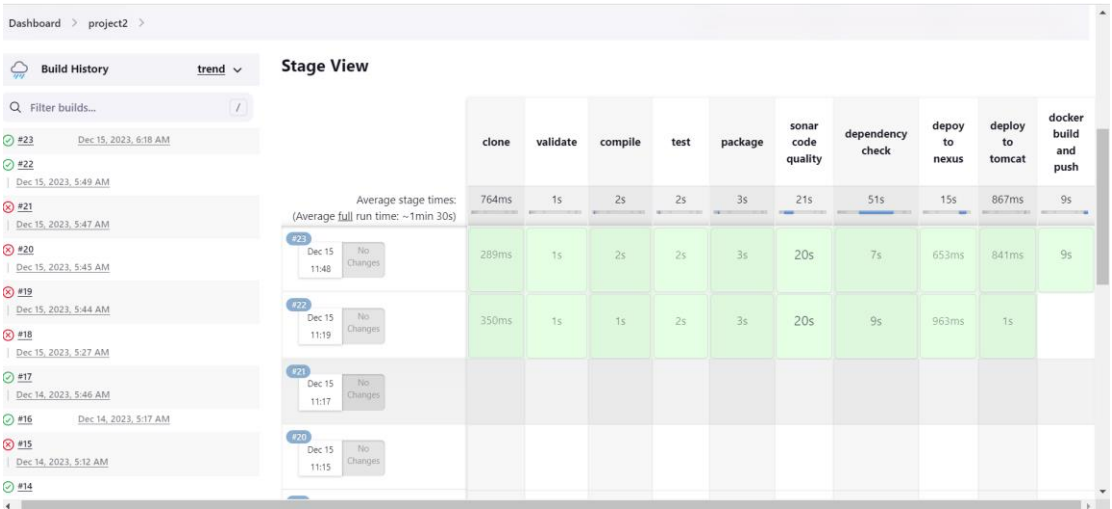
```
    }
```

```
  }
```

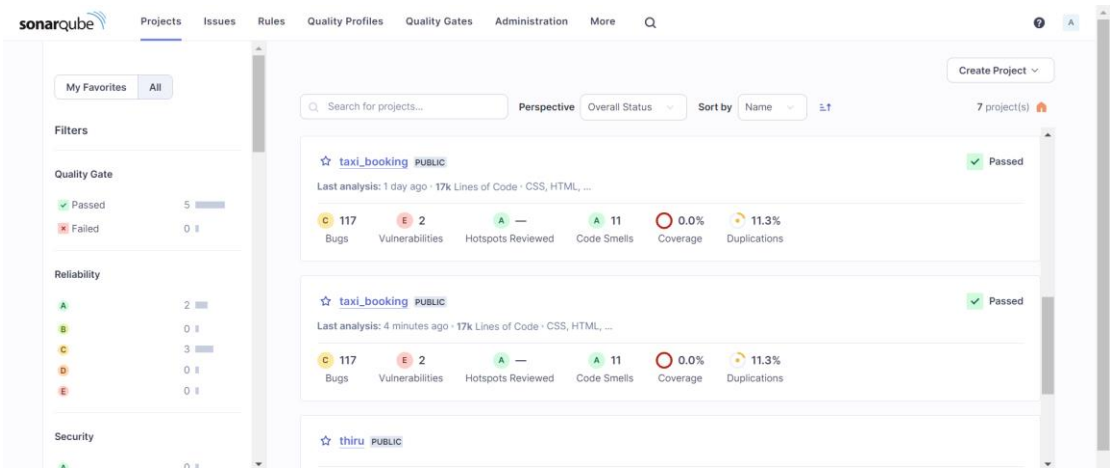
```
}
```

```
}
```

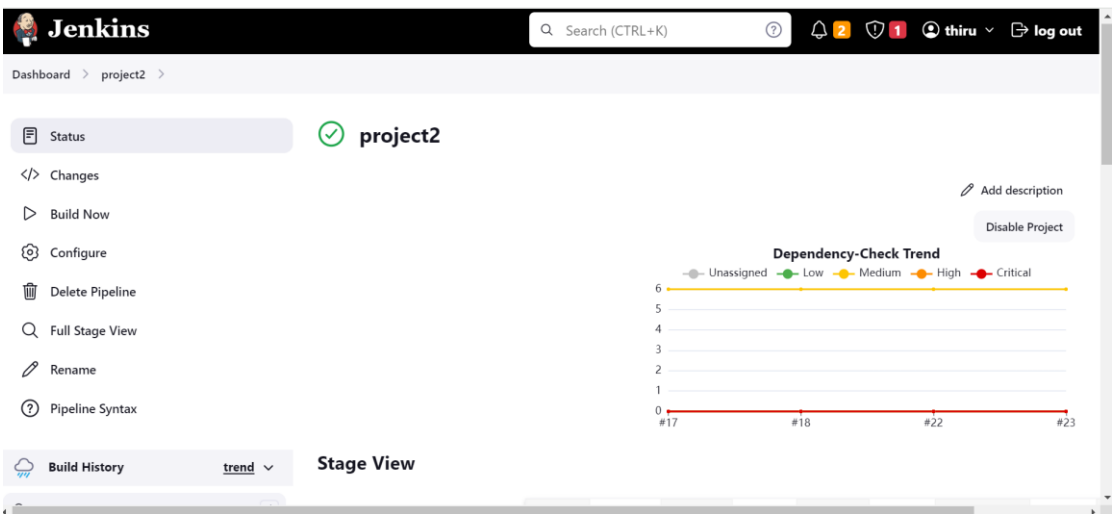
OUTPUT:



SONARCODE-ANALYSIS:



DEPENDENCY-CHECK:



Jenkins

Search (CTRL + K)

2

1

thiru

log out

Dashboard > project2 > #23 > Dependency-Check

Status

Changes

Console Output

Edit Build Information

Delete build '#23'

Git Build Data

Dependency-Check

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Dependency-Check Results

SEVERITY DISTRIBUTION

6

Search

File Name	Vulnerability	Severity	Weakness
+ jquery-3.1.1.js	<div>NVD</div> CVE-2019-11358	<div>Medium</div>	CWE-1321
+ jquery-3.1.1.js	<div>NVD</div> CVE-2020-11022	<div>Medium</div>	CWE-79
+ jquery-3.1.1.js	<div>NVD</div> CVE-2020-11023	<div>Medium</div>	CWE-79
+ taxi-booking-1.0.1.war; jquery-3.1.1.js	<div>NVD</div> CVE-2019-11358	<div>Medium</div>	CWE-1321
+ taxi-booking-1.0.1.war; jquery-3.1.1.js	<div>NVD</div> CVE-2020-11022	<div>Medium</div>	CWE-79
+ taxi-booking-1.0.1.war; jquery-3.1.1.js	<div>NVD</div> CVE-2020-11023	<div>Medium</div>	CWE-79

NEXUS - ARTIFACT:

Nexus Repository Manager
OSS 3.0.2-02

Search Components

Sign in

Browse

Components

Components / maven-snapshots / maven-project

Repository maven-snapshots Group com.example.maven-project
Format maven2 Name maven-project
Version 1.0-20231213.071205-5

Delete component

Name ↑
com/example/maven-project/maven-project/1.0-SNAPSHOT/maven-project-1.0-20231213.071205-5.war
com/example/maven-project/maven-project/1.0-SNAPSHOT/maven-project-1.0-20231213.071205-5.war.md5
com/example/maven-project/maven-project/1.0-SNAPSHOT/maven-project-1.0-20231213.071205-5.war.sha1

DEPLOYING TO TOMCAT:

List Applications

HTML Manager Help

Manager Help

Server Status

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/docs	None specified	Tomcat Documentation	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/examples	None specified	Servlet and JSP Examples	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/host-manager	None specified	Tomcat Host Manager Application	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/manager	None specified	Tomcat Manager Application	true	1	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/taxi-booking-1.0.1	None specified	Webapp	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>

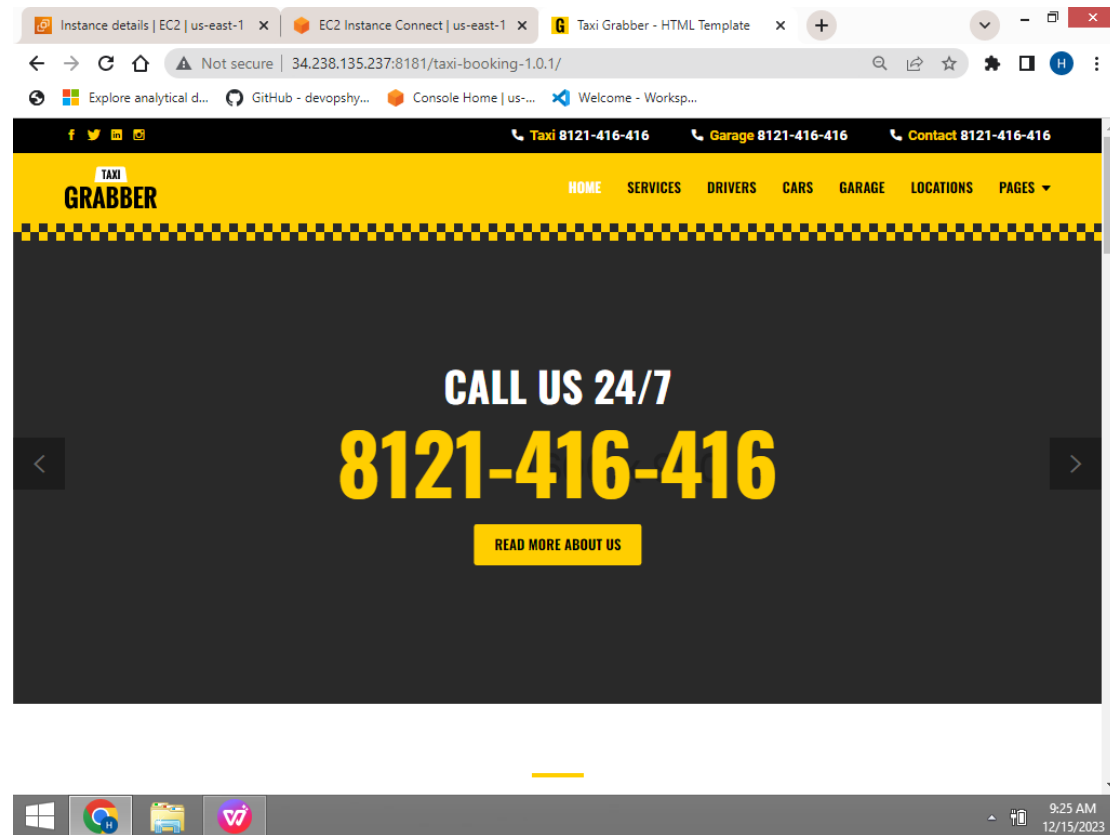
Deploy

Deploy directory or WAR file located on server

Context Path:

Version (for parallel deployment):

OUTPUT:



PUSHING TO GIT-HUB

