DEVSECOPS PROJECTS – 3 (COMPLETE CI-CD PETSHOP Project) Deploy to Docker

NAME: S. Venkateswarareddy **EMAIL:** Singareddyv91@gmail.com

PHONE NO: 9491029062 BATCH NO: 3PM, 113 COURSE: AWS AND DEVOPS

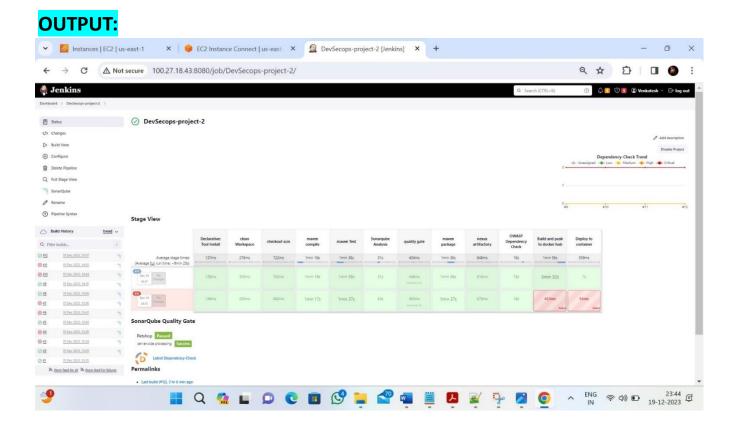
TRAINER NAME: V. MADHUKAR REDDY

PIPELINE SYNTAX:

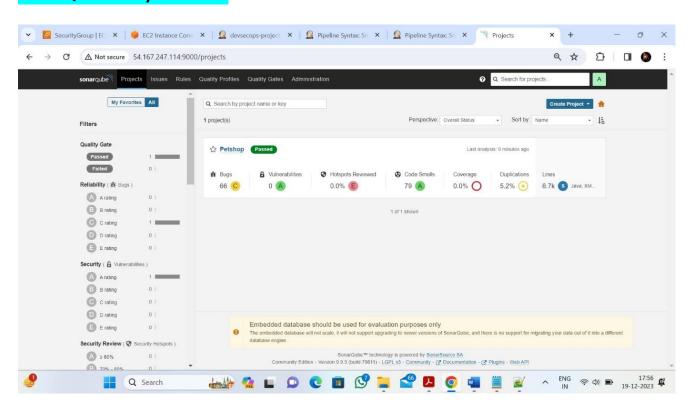
```
pipeline{
  agent any
 tools {
    jdk 'jdk17'
    maven 'maven3'
 }
  environment {
    SCANNER_HOME=tool 'sonar-scanner'
 }
  stages{
    stage ('clean Workspace'){
      steps{
        cleanWs()
      }
    }
    stage ('checkout scm') {
      steps {
        checkout scmGit(branches: [[name: '*/master']], extensions: [], userRemoteConfigs: [[url:
'https://github.com/Aj7Ay/jpetstore-6.git']])
      }
    }
    stage ('maven compile') {
      steps {
```

```
sh 'mvn clean compile'
      }
    }
    stage ('maven Test') {
      steps {
        sh 'mvn test'
      }
    }
    stage("Sonarqube Analysis "){
      steps{
        withSonarQubeEnv('sonar-server') {
          sh " $SCANNER_HOME/bin/sonar-scanner -Dsonar.projectName=Petshop \
          -Dsonar.java.binaries=. \
          -Dsonar.projectKey=Petshop "
        }
      }
    }
    stage("quality gate"){
      steps {
        script {
         waitForQualityGate abortPipeline: false, credentialsId: 'Sonar-token'
        }
     }
    }
    stage("maven package"){
      steps {
        sh 'mvn package'
      }
    }
    stage("nexus artifactory"){
      steps{
        nexusArtifactUploader artifacts: [[artifactId: 'jpetstore', classifier: ", file:
'/var/lib/jenkins/workspace/DevSecops-project-2/target/jpetstore.war', type: 'war']], credentialsId: 'nexus',
```

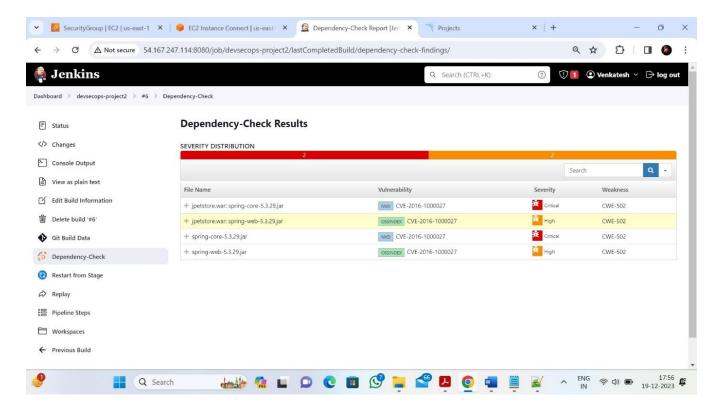
```
groupId: 'org.mybatis', nexusUrl: '54.167.247.114:8081', nexusVersion: 'nexus3', protocol: 'http', repository:
'maven-snapshots', version: '6.1.1-SNAPSHOT'
      }
    }
    stage("OWASP Dependency Check"){
        dependencyCheck additionalArguments: '--scan ./ --format XML', odcInstallation: 'DP-Check'
        dependencyCheckPublisher pattern: '**/dependency-check-report.xml'
      }
    }
    stage ('Build and push to docker hub'){
      steps{
        script{
          withDockerRegistry(credentialsId: 'docker', toolName: 'docker') {
            sh "docker build -t venkatesh09/jpetshop:v1.0.0."
            sh "docker push venkatesh09/jpetshop:v1.0.0"
          }
        }
      }
    }
    stage ('Deploy to container'){
      steps{
        sh "docker run --name Venkat -d -p 8085:8080 venkatesh09/jpetshop:v1.0.0"
      }
    }
  }
}
```



SonarQube Analysis status:



Dependency check status:



Nexus Artifact Uploader:

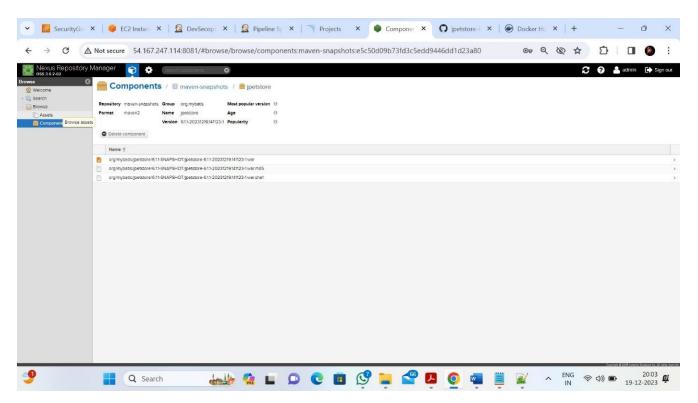


Image pushed to Docker Hub:

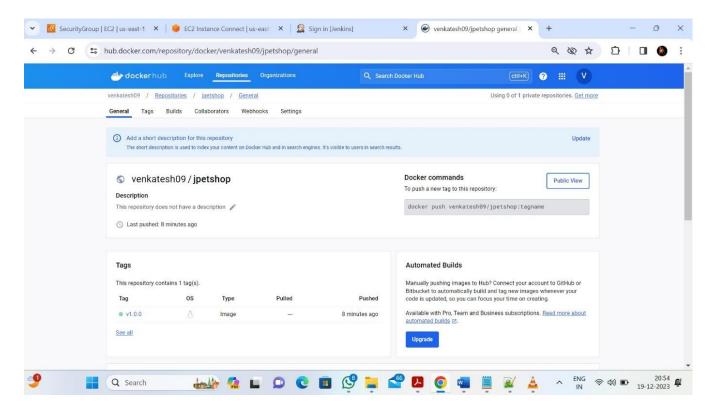
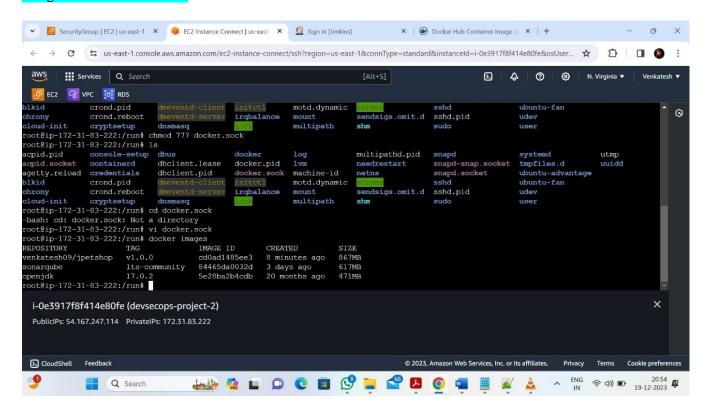
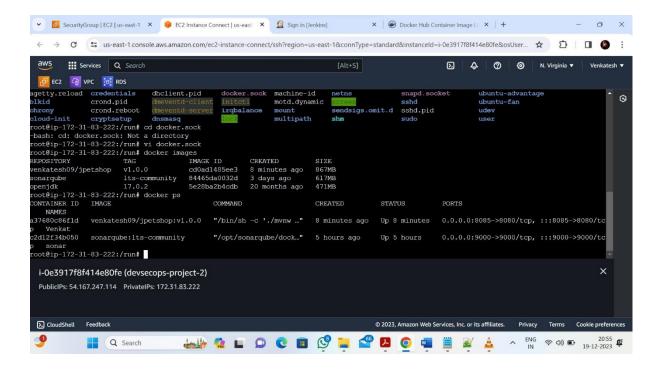


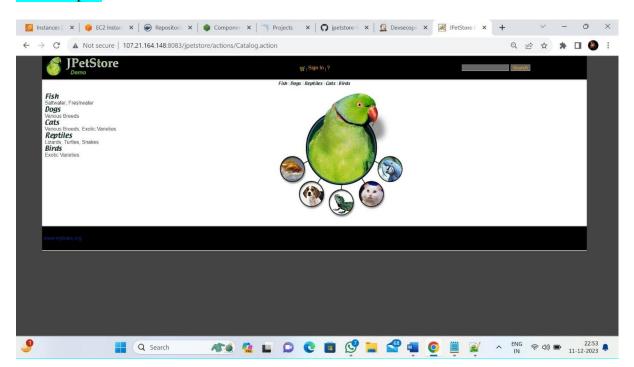
Image Created in Docker:



Container Created in Docker:



Final Output:



Plugins Installed In these Project are:

Maven Integration (No Need to restart the jenkins)

Config file provider

Pipeline maven integration

Eclipse Temurin installer

Sonarqube Scanner

OWASP dependency-Check

Docker

Docker commons

Docker pipeline

Docker API

Docker build-step

Cloud Bees docker Build & Publish