Day 5

Maven project

PIPELINESCRIPT

```
pipeline {
 agent any
 environment {
   DOCKER_IMAGE = "mithras72/maven_repo"
   DOCKER_TAG = "latest"
   DOCKER_CREDENTIALS_ID = "docker"
   GITHUB_CREDENTIALS_ID = "github_seccred"
   KUBECONFIG = "/var/lib/jenkins/.kube/config"
   MAVEN_HOME = "/opt/maven" // Set the correct Maven path
 }
 stages {
   stage('Checkout Code') {
       git credentialsId: GITHUB_CREDENTIALS_ID, url: 'https://github.com/Mithra07-Sriram/maven_proj.git', branch: 'main'
   }
   stage('Build Application') {
     steps {
        sh "${MAVEN_HOME}/bin/mvn clean package -DskipTests"
    }
   }
   stage('Run Maven Tests') {
     steps {
       script {
        catchError(buildResult: 'SUCCESS', stageResult: 'FAILURE') {
          sh "${MAVEN_HOME}/bin/mvn test"
      }
    }
   }
   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}"
    }
   }
   // Uncomment this stage when Kubernetes deployment is ready
   // stage('Deploy to Kubernetes') {
   // steps {
```

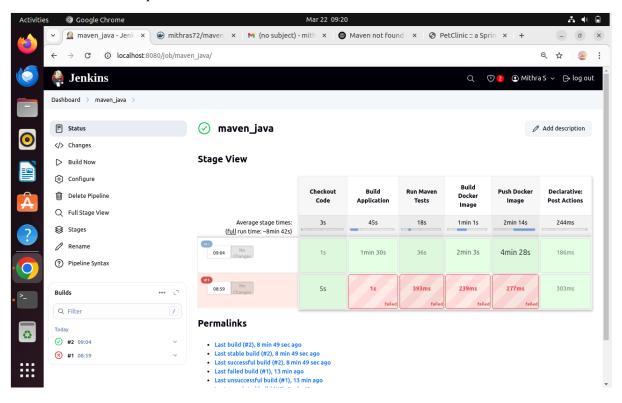
```
//
         script {
   //
           sh '''
   //
             chmod +x scripts/deploy.sh
   //
             ./scripts/deploy.sh
   //
   //
         }
   // }
   //}
 }
 post {
   success {
     echo " Deployment Successful!"
   failure {
     echo "X Deployment Failed!"
   }
 }
}
```

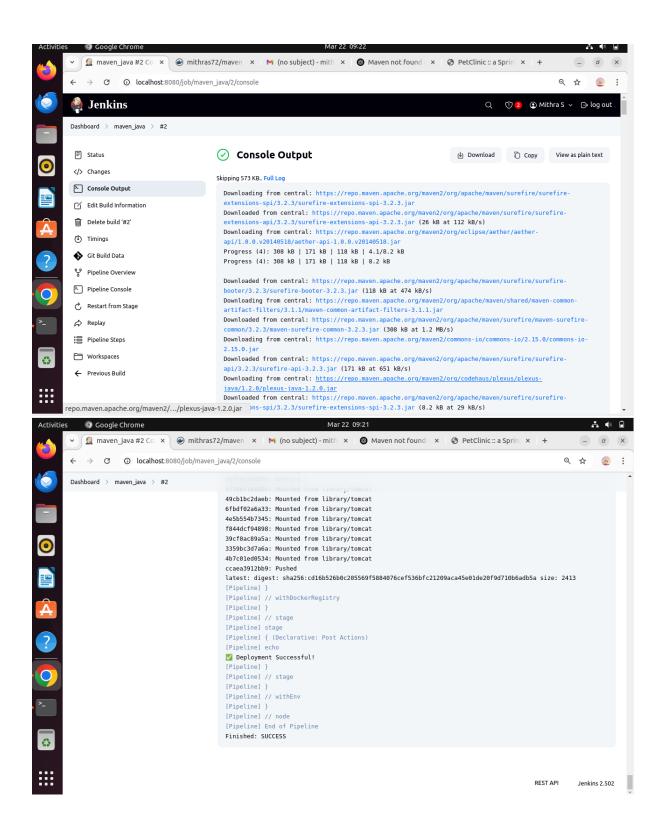
BUILD THE PIPELINE:-

In Tools:-

Use Maven 3.9.6

and Maven Home as /opt/home





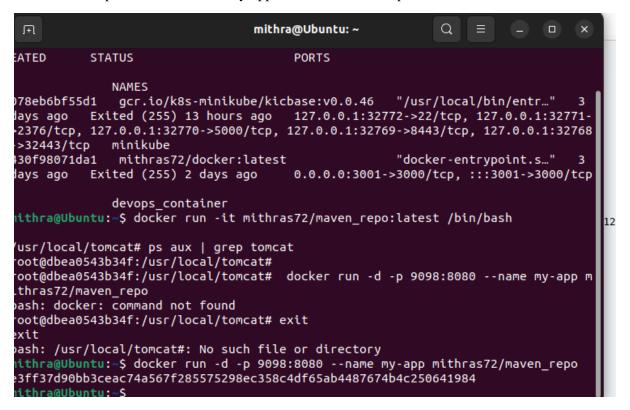
AFTER BUILD:-

docker ps -a

docker run -it mithras72/maven_repo:latest /bin/bash

/usr/local/tomcat# ps aux | grep tomcat

docker run -d -p 9098:8080 --name my-app mithras72/maven_repo



FINAL OUTPUT IN localhost:9098

