**MAVEN**

**COMMANDS:**

mvn --version

Wget https://dlcdn.apache.org/maven/maven-3/3.9.7/binaries/apache-maven-3.9.7-bin.tar.gz

tar -xvzf apache-maven-3.9.7-bin.tar.gz

sudo mv apache-maven-3.9.7 /opt/maven-3.9.7

nano ~/.bashrc

source ~/.bashrc

mvn -version

wget <https://dlcdn.apache.org/maven/maven-3/3.9.7/binaries/apache-maven-3.9.7-bin.tar.gz>

tar -xvzf apache-maven-3.9.7-bin.tar.gz

sudo mv apache-maven-3.9.7 /usr/local/maven-3.9.7

sudo ln -sf /usr/local/maven-3.9.7/bin/mvn /usr/bin/mvn

mvn -version

which mvn

mvn -version

docker ps -a

docker run -it jothi1811/maven:latest /bin/bash

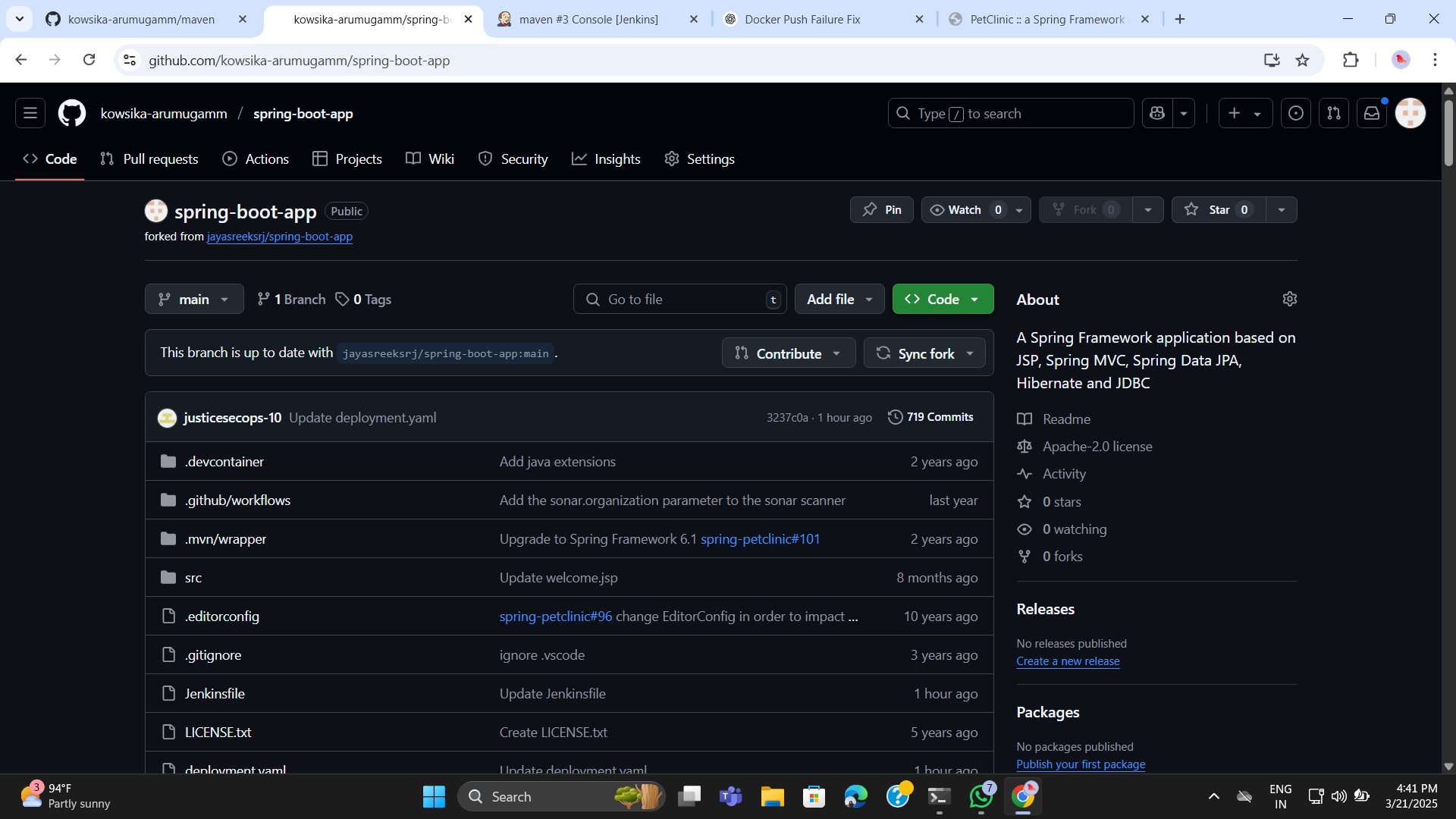
root@593cb0926922:/usr/local/tomcat# /usr/local/tomcat/bin/catalina.sh

root@593cb0926922:/usr/local/tomcat# /usr/local/tomcat/bin/catalina.sh run

docker run -d -p 9091:8080 jothi1811/maven:latest

9d6d50d2a86af5af00f38236b145b3936a97cde85a00615f93266c39b2717901

**PUSH THE GIVEN REPO GIVEN INTO YOUR GITHUB:-**

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**THEN USE THE BELOW PIPELINESCRIPT ACCORDING TO YOUR OWN CREDENTIALS:-**

pipeline {

agent any

environment {

DOCKER\_IMAGE = "jothi1811/maven"

DOCKER\_TAG = "latest"

DOCKER\_CREDENTIALS\_ID = "docker"

GITHUB\_CREDENTIALS\_ID = "github\_seccred"

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

MAVEN\_HOME = "/opt/maven-3.9.7" // Set the correct Maven path

}

stages {

stage('Checkout Code') {

steps {

git credentialsId: GITHUB\_CREDENTIALS\_ID, url: 'https://github.com/kowsika-arumugamm/spring-boot-app', branch: 'main'

}

}

stage('Build Application') {

steps {

script {

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 "❌ Deployment Failed!"

}

}

}

**BUILD THE PIPELINE:-**

**In Tools:-**

Use Maven 3.9.6

and Maven Home as /opt/maven-3.9.7



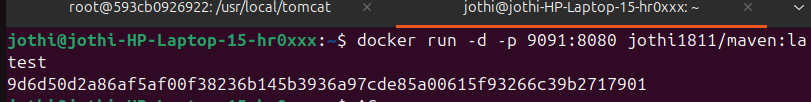
**AFTER BUILD:-**

docker ps -a

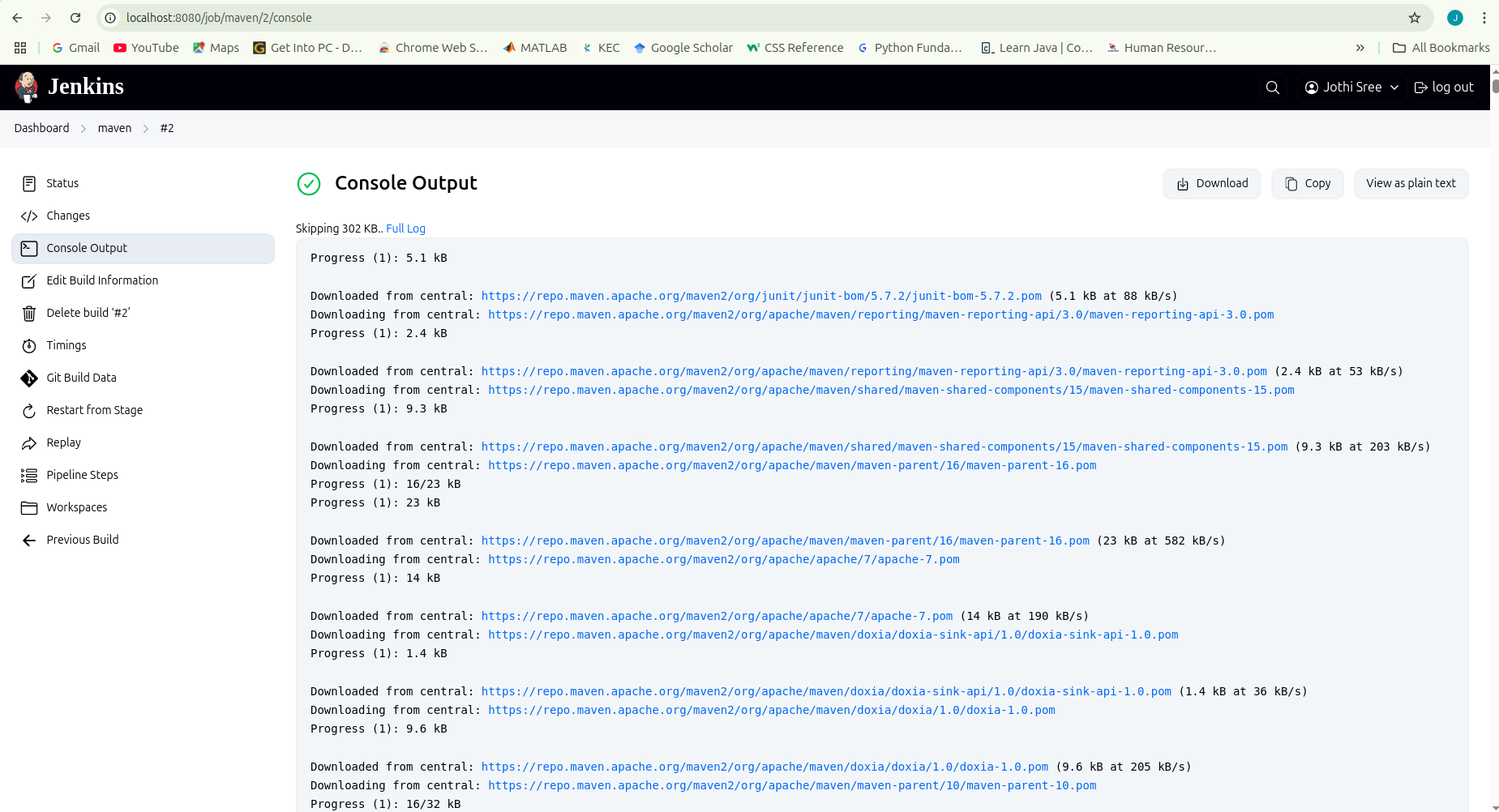
docker run -it jothi1811/maven:latest /bin/bash

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

docker run -d -p 9091:8080 --name my-app jothi1811/maven



**BUILD SUCCESS OUTPUT:-**



Final Output:

