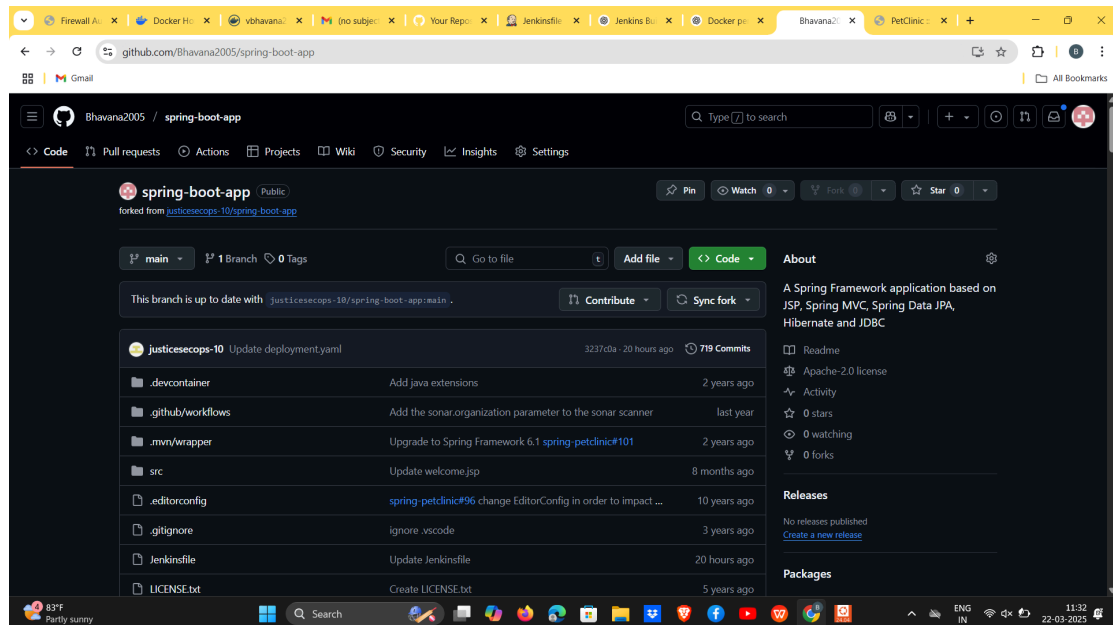


PUSH THE GIVEN REPO GIVEN INTO YOUR GITHUB:-



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

```
pipeline {
  agent any

  environment {
    DOCKER_IMAGE = "vbhavana23/maveen"
    DOCKER_TAG = "latest"
    DOCKER_CREDENTIALS_ID = "docker"
    GITHUB_CREDENTIALS_ID = "github_seccred"
    KUBECONFIG = "/var/lib/jenkins/.kube/config"
    MAVEN_HOME = "/opt/maven"
  }

  stages {
    stage('Checkout Code') {
      steps {
        script {
          echo "📦 Checking out code from GitHub..."
          git credentialsId: GITHUB_CREDENTIALS_ID, url:
'https://github.com/Bhavana2005/spring-boot-app.git', branch: 'main'
        }
      }
    }

    stage('Build Application') {
      steps {
        script {
          echo "🔨 Building application..."
          sh "${MAVEN_HOME}/bin/mvn clean package -DskipTests"
        }
      }
    }
  }
}
```

```

stage('Run Maven Tests') {
    steps {
        script {
            echo "🔧 Running tests..."
            catchError(buildResult: 'SUCCESS', stageResult: 'FAILURE') {
                sh "${MAVEN_HOME}/bin/mvn test"
            }
        }
    }
}

stage('Build Docker Image') {
    steps {
        script {
            echo "🚢 Building Docker image..."
            sh "docker build -t ${DOCKER_IMAGE}:${DOCKER_TAG} ."
        }
    }
}

stage('Push Docker Image') {
    steps {
        script {
            echo "📦 Pushing Docker image to registry..."
        }
        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 {
//             echo "🚀 Deploying to Kubernetes..."
//             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/home

The screenshot shows the Jenkins web interface for a pipeline named 'Jenkinsfile'. The left sidebar contains navigation options: Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Stages, Rename, and Pipeline Syntax. The main area displays the 'Stage View' with a table of stages and their durations.

Checkout Code	Build Application	Run Maven Tests	Build Docker Image	Push Docker Image	Declarative Post Actions
5s	6s	21s	6min 15s	1min 35s	85ms

Average stage times: (full run time: ~8min 29s)

Permalinks:

- Last build (#8), 21 min ago
- Last stable build (#8), 21 min ago
- Last successful build (#8), 21 min ago
- Last completed build (#8), 21 min ago

Builds: #8 5:41 AM

AFTER BUILD:-

```
docker ps -a
```

```
docker run -it vbhavana23/maven:latest /bin/bash
```

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

```
docker run -d -p 9098:8080 --name my-app vbhavana23/maveen
```

```
bhavana@BhavanaViswanathan:~$ sudo docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
461898390d8e   gcr.io/k8s-minikube/kicbase:v0.0.46 "/usr/local/bin/entr..." 44 hours ago   Exited (255) 22 hours ago   127.0.0.1:32782->22/tcp, 127.0.0.1:32781->2376/tcp, 127.0.0.1:32780->5000/tcp, 127.0.0.1:3
2779->8443/tcp, 127.0.0.1:32778->32443/tcp minikube
e3cf182fb02f   vbhavana23/bhavana:latest          "docker-entrypoint.s..." 45 hours ago   Exited (1) 45 hours ago
8497aba4e236   vbhavana23/bhavana_app:latest      "docker-entrypoint.s..." 45 hours ago   Exited (1) 45 hours ago
e151d7375845   d7833934298f                       "/bin/sh -c 'npm ins..." 2 days ago     Exited (1) 2 days ago

bhavana@BhavanaViswanathan:~$ docker run -it kowsikal2/maven:latest /bin/bash
local/tomcat# ps aux | grep tomcat#
latest: Pulling from kowsikal2/maven
5a7813e071bf: Already exists
8dbb6c6af9dc: Already exists
a10b6847b9f1: Already exists
5c1c5ea3c7d: Already exists
91e6cc55403a: Already exists
9d4660d0a9e9: Already exists
4f4fb70ae5f5: Already exists
e231914ca483: Already exists
a8e8e163538c: Downloading 31.61MB/44.35MB
a8e8e163538c: Downloading 34.36MB/44.35MB
a8e8e163538c: Downloading 34.62MB/44.35MB
^C
bhavana@BhavanaViswanathan:~$ docker run -it kowsikal2/maven:latest /bin/bash
cat# ps aux | grep tomcat#
latest: Pulling from kowsikal2/maven
5a7813e071bf: Already exists
8dbb6c6af9dc: Already exists
a10b6847b9f1: Already exists
5c1c5ea3c7d: Already exists
91e6cc55403a: Already exists
9d4660d0a9e9: Already exists
4f4fb70ae5f5: Already exists
e231914ca483: Already exists
a8e8e163538c: Pulling fs layer
^C
bhavana@BhavanaViswanathan:~$ docker run -it vbhavana23/maveen:latest /bin/bash
/usr/local/tomcat# ps aux | grep tomcat
root@9a4d6d7ce9:/usr/local/tomcat# /usr/local/tomcat# ps aux | grep tomcat#
bash: /usr/local/tomcat#: No such file or directory
root@9a4d6d7ce9:/usr/local/tomcat#
root@9a4d6d7ce9:/usr/local/tomcat# exit
exit
bhavana@BhavanaViswanathan:~$ docker run -d -p 9098:8080 --name my-app vbhavana23/maveen
bhavana@BhavanaViswanathan:~$
```

BUILD SUCCESS OUTPUT:-

The screenshot shows the Jenkins web interface for a pipeline named 'Jenkinsfile'. The 'Stage View' tab is active, displaying a progress bar for the current build (652) and a table of stage times. The stages and their durations are: Checkout Code (5s), Build Application (6s), Run Maven Tests (21s), Build Docker Image (6min 15s), Push Docker Image (1min 35s), and Declarative: Post Actions (85ms). The total run time is approximately 8 minutes and 29 seconds. Below the stage view, there are permalinks for the last build (#8), the last stable build (#8), the last successful build (#8), and the last completed build (#8), all from 21 minutes ago. On the left sidebar, the 'Builds' section shows a list of builds, with build #8 selected and showing a status of 'Succeeded' at 5:41 AM.

Checkout Code	Build Application	Run Maven Tests	Build Docker Image	Push Docker Image	Declarative: Post Actions
5s	6s	21s	6min 15s	1min 35s	85ms

Permalinks

- Last build (#8), 21 min ago
- Last stable build (#8), 21 min ago
- Last successful build (#8), 21 min ago
- Last completed build (#8), 21 min ago

FINAL OUTPUT IN localhost:9098

