

## DAY 5

### MAVEN

The screenshot shows the Docker Hub interface. In the top navigation bar, there's a banner for 'Introducing our new CEO Don Johnson - Read More'. Below the banner, the 'My Hub' tab is selected. On the left sidebar, under the 'Repositories' section, a new repository named 'lokitha181/maven' is listed. The repository was created less than a minute ago. There are options to 'Add a description' and 'Add a category'. The 'General' tab is selected. On the right side, there's a 'Docker commands' section with a button to 'Push a new tag to this repository' and a command placeholder: 'docker push lokitha181/maven:tagname'. A 'Public view' button is also present. A sidebar advertisement for 'buildcloud' is visible.

The screenshot shows a GitHub repository page for 'java\_maven\_project' owned by 'LokithaPK'. The repository is public and forked from 'justicesecops-10/java\_maven\_project'. The main branch is 'main' with 1 branch and 0 tags. The repository status is 'Up to date with justicesecops-10/java\_maven\_project:main'. The code listing shows several commits, including:

- 12c072d · yesterday Delete src/test/java/com/capg/bookmydr directory
- yesterday new files
- 2 days ago Add files via upload
- 2 days ago Add files via upload
- yesterday Create deploy.sh
- 2 days ago Create deployment.yaml
- 2 days ago Add files via upload
- 2 days ago Add files via upload
- 2 days ago Add files via upload

On the right side, there are sections for 'About', 'Releases', 'Packages', and 'Languages'. The 'About' section notes 'No description, website, or topics provided.' The 'Releases' section says 'No releases published' and has a link to 'Create a new release'. The 'Languages' section shows a progress bar for Java.

## Pipeline Script

```
pipeline {  
    agent any  
    environment {  
        DOCKER_IMAGE = "lokitha181/maven"  
        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') {  
            steps {  
                git credentialsId: GITHUB_CREDENTIALS_ID, url: 'https://github.com/LokithaPK/java_maven_project.git', 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 "echo 'Building Docker Image...'"  
                }  
            }  
        }  
    }  
}
```

```

        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!"
    }
}
}

```

**Jenkins**

Dashboard > Maven >

Status: **Maven** (Green)

Changes: No Changes (11:20)

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

**Stage View**

Checkout Code	Build Application	Run Maven Tests	Build Docker Image	Push Docker Image	Declarative: Post Actions
2s	44s	4s	1min 39s	54s	136ms

Average stage times: (full run time: ~3min 30s)

**Permalinks**

- Last build (#1), 27 min ago
- Last stable build (#1), 27 min ago
- Last successful build (#1), 27 min ago
- Last completed build (#1), 27 min ago

Builds: #1 11:20 AM

```

e2690b16fb5/: Preparing
6be690267e47: Preparing
13a34b6fff78: Preparing
9c1b6dd6c1e6: Preparing
9c1b6dd6c1e6: Mounted from library/openjdk
13a34b6fff78: Mounted from library/openjdk
6be690267e47: Mounted from library/openjdk
e2690b16fb57: Pushed
7e45c4500cd7: Pushed
latest: digest: sha256:9d2302cab5bbfd9610fc39b916c838bbe6f705b9ae87733f3614756a9d3bb7a2 size: 1371
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Deployment Successful!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

qcewcwedcdwcdw

**spring** by Pivotal

HOME FIND OWNERS VETERINARIANS ERROR

???welcome Aranganathan 79998wdd???



**spring** by Pivotal.