

DAY 5 Task

Github :

The screenshot shows a GitHub repository page for 'spring-boot-app'. The repository is public and was forked from 'kowsika-arumugamm/spring-boot-app'. The main branch is up-to-date with the upstream. The repository has 719 commits. On the right side, there's an 'About' section with a brief description of the project as a Spring Framework application using JSP, Spring MVC, Spring Data, Hibernate, and JDBC. It also lists links for Readme, Apache-2.0 license, Activity, stars, watching, and forks. Below that is a 'Releases' section.

A Spring Framework application using JSP, Spring MVC, Spring Data, Hibernate and JDBC

About

Readme

Apache-2.0 license

Activity

0 stars

0 watching

0 forks

Releases

PIPELINESCRIPT:

```
pipeline {  
    agent any  
  
    environment {  
        DOCKER_IMAGE = "22itr010/maven"  
        DOCKER_TAG = "latest"  
        DOCKER_CREDENTIALS_ID = "docker"  
        GITHUB_CREDENTIALS_ID = "github_seccred"  
        KUBECONFIG = "/var/lib/jenkins/.kube/config"  
        MAVEN_HOME = "/mnt/c/Users/ashwi/Downloads/apache-maven-3.9.9-bin/apache-maven-3.9.9"  
    }  
  
    stages {  
        stage('Checkout Code') {
```

```
steps {
    script {
        retry(3) {
            git branch: 'main', credentialsId: GITHUB_CREDENTIALS_ID, url: 'https://github.com/ashwithasivasubramanian/spring-boot-app.git'
        }
    }
}

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}"

        }

    }

}

post {

    success {

        echo "✅ Deployment Successful!"

    }

    failure {

        echo "❌ Deployment Failed!"

    }

}
```

BUILD THE PIPELINE:-

The screenshot shows the Jenkins Pipeline interface for a 'maven' pipeline. On the left, there's a sidebar with options like Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Stages, Rename, and Pipeline Syntax. The main area is titled 'Stage View' and contains a table with the following columns: Checkout Code, Build Application, Run Maven Tests, Build Docker Image, Push Docker Image, and Declarative: Post Actions. The table shows average stage times: 1s for Checkout Code, 1min 27s for Build Application, 32s for Run Maven Tests, 7min 0s for Build Docker Image, 37s for Push Docker Image, and 61ms for Declarative: Post Actions. Below the table, it says 'Average stage times: (full run time: ~9min 40s)'. A summary bar at the bottom indicates 10:45 and No Changes.

AFTER BUILD:-

```
docker ps -a
```

```
docker run -it kowsika12/maven:latest /bin/bash
```

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

```
docker run -d -p 9098:8080 --name my-app kowsika12/maven
```

```
ashwita@Ashwita:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c3c21b07e08c 22itr010/maven:latest "/bin/bash" 2 minutes ago Exited (127) 57 seconds ago infalli
ble_elion dfff4da91206 22itr010/devops:latest1 "docker-entrypoint.s..." 2 hours ago Exited (1) 2 hours ago hotstar
_container c3670072df57 132b40380105 "/bin/sh -c 'npm ins..." 3 hours ago Exited (1) 3 hours ago silly_s
hirley 3c1a04a154d7 132b40380105 "/bin/sh -c 'npm ins..." 12 hours ago Exited (255) 12 hours ago pensive
_lovelace 01ade0422163 f4ca205bb0bd "/bin/sh -c 'npm ins..." 13 hours ago Exited (1) 13 hours ago fervent
_curran aed78bb07474 7f566edec3fb "/bin/sh -c 'npm ins..." 21 hours ago Exited (1) 21 hours ago excitin
g_galois 4e08f41ceb66 gcr.io/k8s-minikube/kicbase:v0.0.46 "/usr/local/bin/entr..." 47 hours ago Up 57 minutes 127.0.0.1 :32772->22/tcp, 127.0.0.1:32771->2376/tcp, 127.0.0.1:32770->5000/tcp, 127.0.0.1:32769->8443/tcp, 127.0.0.1:32768->32443/tcp minikube
e5d89b922078 da39e36de39e "/bin/sh -c 'npm ins..." 2 days ago Exited (1) 2 days ago focused
_brahmagupta ec85a7664cb7 da39e36de39e infallible_johnson "/bin/sh -c 'npm ins..." 2 days ago Exited (1) 2 days ago
779ffa1ba73a da39e36de39e magical_shaw "/bin/sh -c 'npm ins..." 2 days ago Exited (1) 2 days ago
5141e9e43410 da39e36de39e magical_shaw "/bin/sh -c 'npm ins..." 2 days ago Exited (1) 2 days ago
```

```

ashwisha@Ashwisha:~$ docker run -it 22itr010/maven:latest /bin/b
ash
root@696f81d58bf7:/usr/local/tomcat# ps aux | grep tomcat
root      10  100  0.0  6544  2228 pts/0    S+   05:30   0:00 grep --color=auto tomcat
root@696f81d58bf7:/usr/local/tomcat# exit
exit
ashwisha@Ashwisha:~$ docker run -d -p 9098:8080 --name my-app 22itr010/maven
ashwisha@Ashwisha:~$ 
ashwisha@Ashwisha:~$
```

BUILD SUCCESS OUTPUT:-

Jenkins

Dashboard > maven > #12

- Status
- </> Changes
- Console Output**
- Edit Build Information
- Delete build '#12'
- Timings
- Git Build Data
- Pipeline Overview
- Pipeline Console
- Restart from Stage
- Replay

Console Output

Skip 311 KB.. [Full Log](#)

Progress (1): 16/327 kB
 Progress (2): 16/327 kB | 16/36 kB
 Progress (3): 16/327 kB | 16/36 kB | 10 kB
 Progress (4): 16/327 kB | 16/36 kB | 10 kB | 16/41 kB

Downloaded from central: <https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-sink-api/1.0/doxia-sink-api-1.0.jar> (10 kB at 106 kB/s)
 Progress (3): 33/327 kB | 16/36 kB | 16/41 kB

Downloading from central:
<https://repo.maven.apache.org/maven2/org/jacoco/org.jacoco.agent/0.8.11/org.jacoco.agent-0.8.11-runtime.jar>
 Progress (3): 33/327 kB | 32/36 kB | 16/41 kB
 Progress (3): 33/327 kB | 36 kB | 16/41 kB

Downloaded from central: <https://repo.maven.apache.org/maven2/org/apache/maven/shared/file->

FINAL OUTPUT IN localhost:9098

qcwcwcdcdwcdw

spring by Pivotal

HOME FIND OWNERS VETERINARIANS ERROR

???welcome Aranganathan 79998wdd???



spring by Pivotal

