

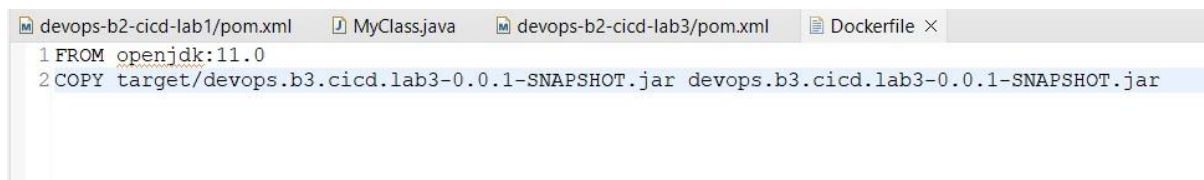
500093657, R2142210596, DEVOPS B2 3RD YEAR

EXPERIMENT – 3 & 4

Aim: Maven Build & Docker build and push using GitHub Actions

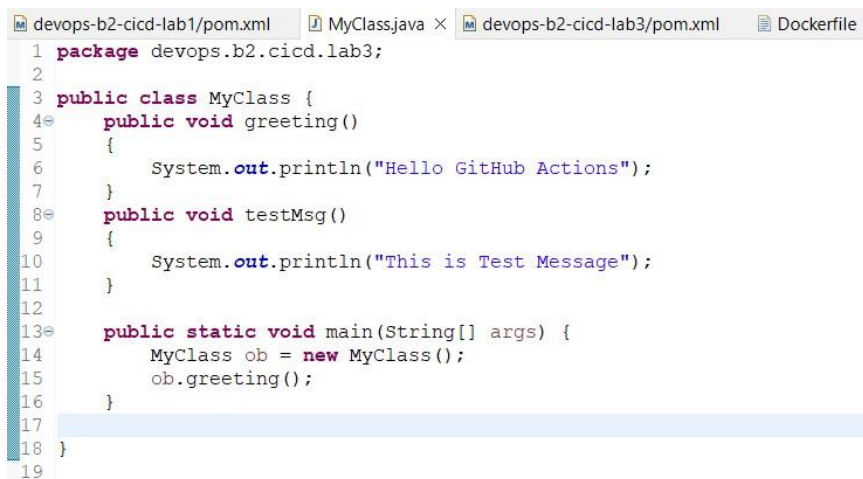
1. Push files on GitHub repo which contain class file, dockerfile, pom.xml file and so on.

Docker file



```
devops-b2-cicd-lab1/pom.xml  MyClass.java  devops-b2-cicd-lab3/pom.xml  Dockerfile ×
1 FROM openjdk:11.0
2 COPY target/devops.b3.cicd.lab3-0.0.1-SNAPSHOT.jar devops.b3.cicd.lab3-0.0.1-SNAPSHOT.jar
```

MyClass.java file




```
devops-b2-cicd-lab1/pom.xml  MyClass.java ×  devops-b2-cicd-lab3/pom.xml  Dockerfile
1 package devops.b2.cicd.lab3;
2
3 public class MyClass {
4     public void greeting()
5     {
6         System.out.println("Hello GitHub Actions");
7     }
8     public void testMsg()
9     {
10        System.out.println("This is Test Message");
11    }
12
13    public static void main(String[] args) {
14        MyClass ob = new MyClass();
15        ob.greeting();
16    }
17
18 }
19
```

Pom.xml file





```
devops-b2-cicd-lab1/pom.xml  MyClass.java  devops-b2-cicd-lab3/pom.xml ×  Dockerfile
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/
2   <modelVersion>4.0.0</modelVersion>
3   <groupId>devops.b2.cicd.lab3</groupId>
4   <artifactId>devops.b3.cicd.lab3</artifactId>
5   <version>0.0.1-SNAPSHOT</version>
6
7   <properties>
8       <maven.compiler.source>1.8</maven.compiler.source>
9       <maven.compiler.target>1.8</maven.compiler.target>
10  </properties>
11 </project>
```



CICD-LAB-3-4

Public

 Pin

 Watch

0

forked from [hkshitesh/CICD-LAB-3-4](#)

main

1 Branch

0 Tags


Go to file


t


+

<> Code

This branch is 2 commits ahead of [hkshitesh/CICD-LAB-3-4:main](#)









 Contribute

 Sync fork

 **Priyansh-C-Choudhary** Update cicd.yml ✓

dbe21f2 · 3 months ago

11 Commits

	.github/workflows	Update cicd.yml	3 months ago
	.settings	Add GitHub Actions workflow for Maven build	3 months ago
	src/main/java/devops/b3/cicd/lab3	second commit	3 months ago
	.classpath	Add GitHub Actions workflow for Maven build	3 months ago
	.gitignore	GitHub Actions	3 months ago
	.project	Add GitHub Actions workflow for Maven build	3 months ago
	Dockerfile	dockerfile added	3 months ago
	pom.xml	GitHub Actions	3 months ago

2. Add Docker Hub Credentials to GitHub Secrets

Actions secrets and variables

Secrets and variables allow you to manage reusable configuration data. Secrets are **encrypted** and are used for sensitive data. [Learn more about encrypted secrets](#). Variables are shown as plain text and are used for **non-sensitive** data. [Learn more about variables](#).

Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

Secrets

Variables







New repository secret

Environment secrets

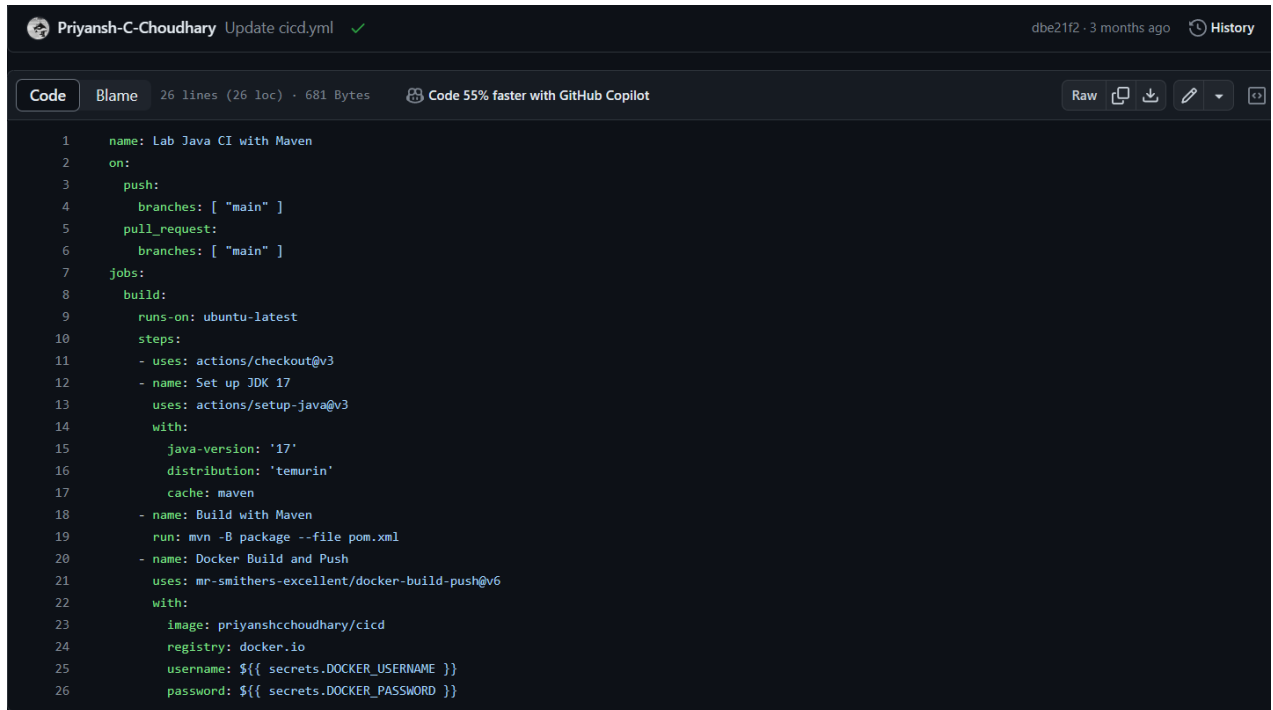
Manage environments

There are no secrets for this repository's environments.

Repository secrets

 DOCKER_PASSWORD	Updated 2 weeks ago		
 DOCKER_USERNAME	Updated 2 weeks ago		

3. Create a GitHub Actions Workflow name as `cicd.yml` and click on commit and push changes.



The screenshot shows a GitHub repository page for a user named Priyansh-C-Choudhary. The file `cicd.yml` is selected, showing its content in a dark-themed editor. The workflow is named "Lab Java CI with Maven" and is triggered on push to the main branch or pull requests to the main branch. It consists of two jobs: "build" and "docker-build-and-push". The "build" job runs on ubuntu-latest, sets up JDK 17, and builds the project with Maven. The "docker-build-and-push" job builds a Docker image and pushes it to Docker Hub.

```
1 name: Lab Java CI with Maven
2 on:
3   push:
4     branches: [ "main" ]
5   pull_request:
6     branches: [ "main" ]
7 jobs:
8   build:
9     runs-on: ubuntu-latest
10    steps:
11      - uses: actions/checkout@v3
12      - name: Set up JDK 17
13        uses: actions/setup-java@v3
14        with:
15          java-version: '17'
16          distribution: 'temurin'
17          cache: maven
18      - name: Build with Maven
19        run: mvn -B package --file pom.xml
20      - name: Docker Build and Push
21        uses: mr-smithers-excellent/docker-build-push@v6
22        with:
23          image: priyanshcchoudhary/cicd
24          registry: docker.io
25          username: ${ secrets.DOCKER_USERNAME }
26          password: ${ secrets.DOCKER_PASSWORD }
```

4. Check the Workflow Status in that you will notices that our build has been completed and build images has been visible in our docker hub.

← Lab Java CI with Maven

✓

Update cicc.yml #1

Summary

Jobs

✓ build

Run details

Usage

Workflow file

Triggered via push 3 months ago

Priyansh-C-Choudhary pushed

→ dbe21f2

main

Status

Success

Total duration

59s

Artifacts

—

cicc.yml

on: push

✓ build

47s

5. Build image in docker hub

🌐

priyanshcchoudhary / cicc

Description

This repository does not have a description

Docker commands

To push a new tag to this repository:

Public View

docker push priyanshcchoudhary/cicc:tagname

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Secrets

Variables

New repository secret

Environment secrets

Manage environments

There are no secrets for this repository's environments.

Repository secrets

🔒

DOCKER_PASSWORD

Updated 2 weeks ago

🔒

DOCKER_USERNAME

Updated 2 weeks ago