

Exp 5

.github/workflows/main.yml

name: Docker Build & Push

on:

push:

branches: [main]

jobs:

build:

runs-on: ubuntu-latest

steps:

- name: Checkout

uses: actions/checkout@v4

- name: Set up QEMU (optional)

uses: docker/setup-qemu-action@v2

- name: Set up Buildx

uses: docker/setup-buildx-action@v2

- name: Log in to Docker Hub

uses: docker/login-action@v3

with:

registry: https://index.docker.io/v1/

username: \${ secrets.DOCKERHUB_USERNAME }

password: \${ secrets.DOCKERHUB_TOKEN }

- name: Build and push

uses: docker/build-push-action@v6

```
with:
  context: .
  file: ./Dockerfile
  push: true
  tags: |
    jibinjoby/devopsexp5:latest
    jibinjoby/devopsexp5:${{ github.sha }}
```

Dockerfile:

```
FROM python:3.11
WORKDIR /app
COPY . .
CMD ["python", "app.py"]
```

app.py

```
print("Hello CI Pipeline from jibinjoby!")
```

build locally

```
docker build -t jibinjoby/devopsexp5:local .
```

run locally

```
docker run --rm jibinjoby/devopsexp5:local
```

```
# expected output: Hello CI Pipeline from jibinjoby!
```

```
docker login      # interactive; use your Docker Hub credentials or token
```

```
docker tag jibinjoby/devopsexp5:local jibinjoby/devopsexp5:latest
```

```
docker push jibinjoby/devopsexp5:latest
```

```
git init
```

```
git add .
```

```
git commit -m "initial commit"
```

```
git branch -M main
```

```
git remote add origin https://github.com/jibinjoby/devopsexp5.git
```

```
git push -u origin main
```

```
DOCKERHUB_USERNAME
```

```
DOCKERHUB_TOKEN
```

```
git commit --allow-empty -m "trigger CI"
```

```
git push
```