

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
```