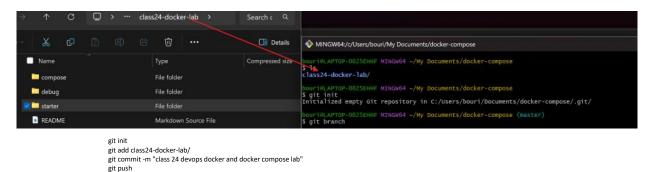
### Docker&Docker-Compose Lab

Friday, September 5, 2025 8:16 PM

#### Push project from local to github



### Part A — Create the Dockerfile

In starter/, create a Dockerfile that:

```
FROM python:3.11-slim WORKDIR /app COPY requirements.txt /app/ RUN pip install --no-cache-dir -r /app/requirements.txt COPY app/ /app/ EXPOSE 5000 CMD ["python", "app.py"]
```

Build and tag your image:

cd starter sudo docker build -t amadou11/class24-docker-lab:v1 .0 .

### Part B - Push to Your Registry

Authenticate and push:

#sudo docker login -u amadou11

git push --set-upstream origin master

```
wubuntu@ip-172-31-9-239:-/class24-docker-lab-project/class24-docker-lab$ sudo docker login -u amadou11 Password:

WARNING! Your password will be stored unencrypted in /root/.docker/config.json.

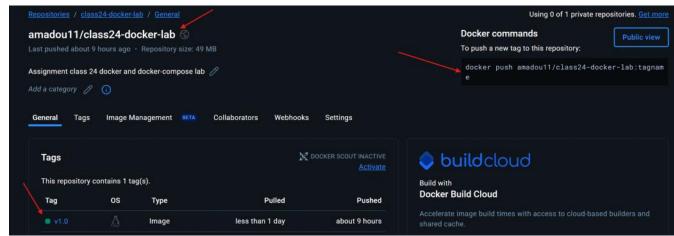
Configure a credential helper to remove this warning. See https://docs.docker.com/engine/reference/commandline/login/#credential-stores

Login Succeeded

#sudo docker push amadou11/class24-docker-lab:v1.0
```

mage is visible in registry Ul

Image URL: docker.io/amadou11/class24-docker-lab:v1.0



```
#version: "3.9"
services:
  web:
    image: amadou11/class24-docker-lab:v1.0 # 
replace with your pushed image (e.g. docker.io/USER/simple-web:v1)
      - PORT=5000
- WHO=Compose Student
    ports:
- "8080:5000"
    healthcheck:
test: ["CMD", "curl", "-fsS", "http://localhost:5000/health"]
      interval: 5s
timeout: 3s
      retries: 5
   #sudo docker compose -f compose/app-compose.template.yml up -d
```

# sudo docker compose -f compose/app-compose.template.yml ps

```
"python app.py
```

#sudo docker compose -f compose/app-compose.template.vml logs -f

```
172.56.161.236 - - [06/Sep/2025 01:45:00] "GET /health HTTP/1.1" 200
172.56.161.236 - - [06/Sep/2025 01:45:00] "GET /health HTTP/1.1" 200
                                                                                                                                                        {"status": "ok"}
```

Browse to http://yourip:8080 and confirm the app responds; ensure the healthcheck passes Succeful

# Hello, Compose Student 🤞

Served from: babab6cf9065

Try /health.

Tear down when finished

sudo docker compose -f compose/app-compose.template.vml down

# Part D — Debugging Quickfires

 $Port\ mismatch --- debug/compose-port-mismatch.yml$ 

```
services:
  web:
image: docker.io/library/nginx:alpine # 
replace with your pushed image (e.g. docker.io/USER/simple-web:v1)
      - PORT=5000
- WHO=Compose Student
    ports:
- "8080:5000"
    - 0000.2000
healthcheck:
test: ["CMD", "curl", "-fsS", "http://localhost:5000/health"]
interval: 5s
       timeout: 3s retries: 5
```

```
services:
    image: docker.io/amadou11/class24-docker-lab:v1.0 # ← replace with your pushed image (e.g. docker.io/USER/simple-web:v1)
   envir
     - PORT=5000
- WHO=Compose Student
   ports:
- "8080:5000"
      test: ["CMD", "curl", "-fsS", "<a href="http://localhost:5000/health"] interval: 5s</a>
      timeout: 3s
retries: 5
```

# $Broken\ CMD\ -\!\!\!\!--\ debug/broken\text{-}cmd/$

```
FROM python:3.11-slim
WORKDIR /app
COPY requirements.txt /app/
RUN pip install --no-cache-dir -r /app/requirements.txt
COPY app, py /app/
# Intentionally missing requirements and wrong command:
CMD ["python", "app.py"]
```

# Unhealthy healthcheck

```
version: "3.9"
services:
web:
   image: docker.io/library/nginx:alpine  # + replace with your pushed image (e.g. docker.io/USER/simple-web:v1)
   environment:
        PORT=5000
        - WH0=Compose Student
ports:
        "8080:5000"
healthcheck:
   test: ["CMD", "curl", "-fsS", "http://localhost:5000/health"]
   interval: 5s
   timeout: 3s
   retries: 5
```