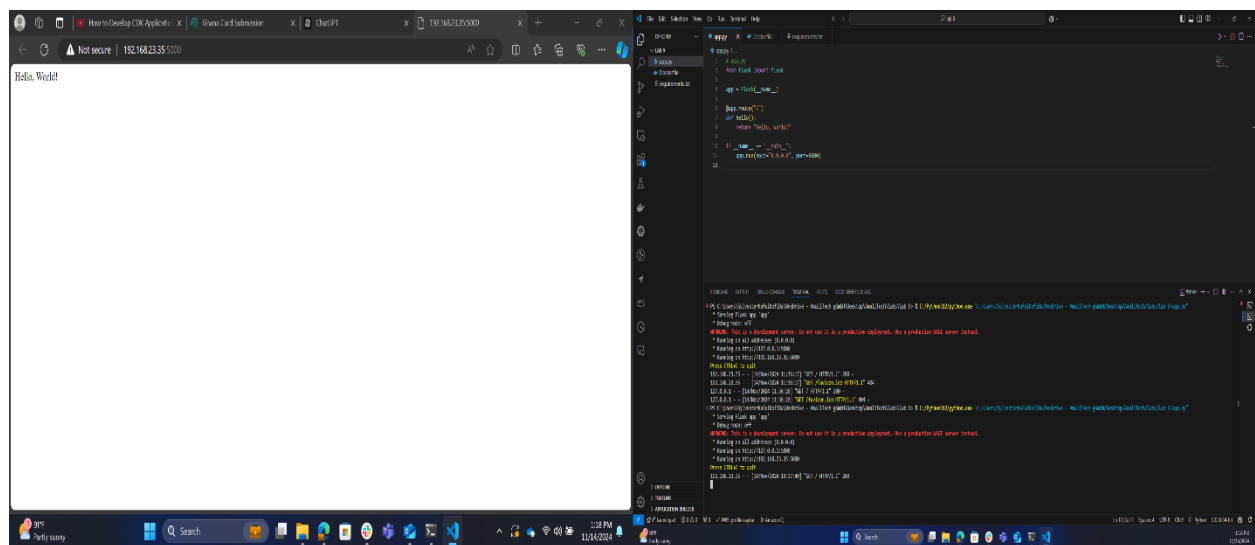


Simple web server-LAB 9

"Create a simple web server (with Python's Flask or Node.js or language of choice), build a Docker image from it, and run the container locally

After running it locally, tag the docker image and push to docker hub."

Screenshot of Docker container running



Screenshot of Docker Image pushed to hub

The screenshot shows the Docker Hub repository page for **kaydar/flask-app**. The page is dark-themed with a blue header. The repository is under the **Repositories** tab. The **General** sub-tab is selected, showing the repository name, last push time (19 minutes ago), and status (INCOMPLETE). Below this, the **Tags** section shows two tags: **v1.0** and **latest**, both pushed 20 minutes ago. A table lists the tags with columns for Tag, OS, Type, Pulled, and Pushed.

kaydar/flask-app

Last pushed 19 minutes ago

This repository does not have a description INCOMPLETE

This repository does not have a category INCOMPLETE

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
v1.0		Image	20 minutes ago	19 minutes ago
latest		Image	20 minutes ago	21 minutes ago

[See all](#)

The screenshot shows the Docker Hub search results page for **kaydar/flask-app**. The page is dark-themed with a blue header. The search results show the repository name, last push time (less than a minute ago), and status (Public). The page also includes a search bar and a 'Create repository' button.

kaydar / flask-app

Contains: Image - Last pushed: less than a minute ago

☆ 0 ± 0 Public Scout inactive

Screenshot of code

```
app.py > ...
1 # app.py
2 from flask import Flask
3
4 app = Flask(__name__)
5
6 @app.route("/")
7 def hello():
8     return "Hello, World!"
9
10 if __name__ == "__main__":
11     app.run(host="0.0.0.0", port=5000)
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS CODE REFERENCE LOG Python + v

P5 C:\Users\SylvesterKafuKofida\OneDrive - AmaliTech gmbH\Desktop\AmaliTech\labs\lab 9> & C:\Python312\python.exe "c:\Users\SylvesterKafuKofida\OneDrive - AmaliTech gmbH\Desktop\AmaliTech\labs\lab 9/app.py"

- * Serving Flask app 'app'
- * Debug mode: off
- WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
- * Running on all addresses (0.0.0.0)
- * Running on http://127.0.0.1:5000
- * Running on http://192.168.23.35:5000

Press CTRL+C to quit

192.168.23.35 - - [14/Nov/2024 11:36:17] "GET / HTTP/1.1" 200 -

192.168.23.35 - - [14/Nov/2024 11:36:17] "GET /favicon.ico HTTP/1.1" 404 -

127.0.0.1 - - [14/Nov/2024 11:36:26] "GET / HTTP/1.1" 200 -

127.0.0.1 - - [14/Nov/2024 11:36:26] "GET /favicon.ico HTTP/1.1" 404 -

P5 C:\Users\SylvesterKafuKofida\OneDrive - AmaliTech gmbH\Desktop\AmaliTech\labs\lab 9> & C:\Python312\python.exe "c:\Users\SylvesterKafuKofida\OneDrive - AmaliTech gmbH\Desktop\AmaliTech\labs\lab 9/app.py"

- * Serving Flask app 'app'
- * Debug mode: off
- WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
- * Running on all addresses (0.0.0.0)
- * Running on http://127.0.0.1:5000
- * Running on http://192.168.23.35:5000

Press CTRL+C to quit

1

Screenshot of Dockerfile

```
app.py Dockerfile requirements.txt
1 # Use the official Python image from Docker Hub
2 FROM python:3.9-slim
3
4 # Set the working directory
5 WORKDIR /app
6
7 # Copy the current directory contents into the container at /app
8 COPY . /app
9
10 # Install Dependencies
11 RUN pip install --no-cache-dir -r requirements.txt
12
13 # Expose port 5000
14 EXPOSE 5000
15
16 # Run app.py when the container launches
17 CMD ["python", "app.py"]
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS CODE REFERENCE LOG

permission denied

kaydar@WALITECH-PC: ~\$ docker push kaydar/flask-app:latest

The push refers to repository [docker.io/kaydar/flask-app]

9b728f4d3a: Pushed

7c72abf111b0: Pushed

232fa13b077d: Pushed

aaebaf3a24d9: Mounted from library/python

751ad7c5c4: Mounted from library/python

782c749b484: Mounted from library/python

c548b2118d26: Mounted from library/python

latest: digest: sha256:f1c443b6a62778b9f88f13dadb81ac2f6766aff3ee5ee74003b4a093 size: 1783

kaydar@WALITECH-PC: ~\$ docker push kaydar/flask-app:v1.0

docker: 'kaydar/flask-app:v1.0' is not a docker command.

See 'docker --help'

kaydar@WALITECH-PC: ~\$ docker push kaydar/flask-app:v1.0

The push refers to repository [docker.io/kaydar/flask-app]

9b728f4d3a: Layer already exists

7c72abf111b0: Layer already exists

232fa13b077d: Layer already exists

aaebaf3a24d9: Layer already exists

751ad7c5c4: Layer already exists

782c749b484: Layer already exists

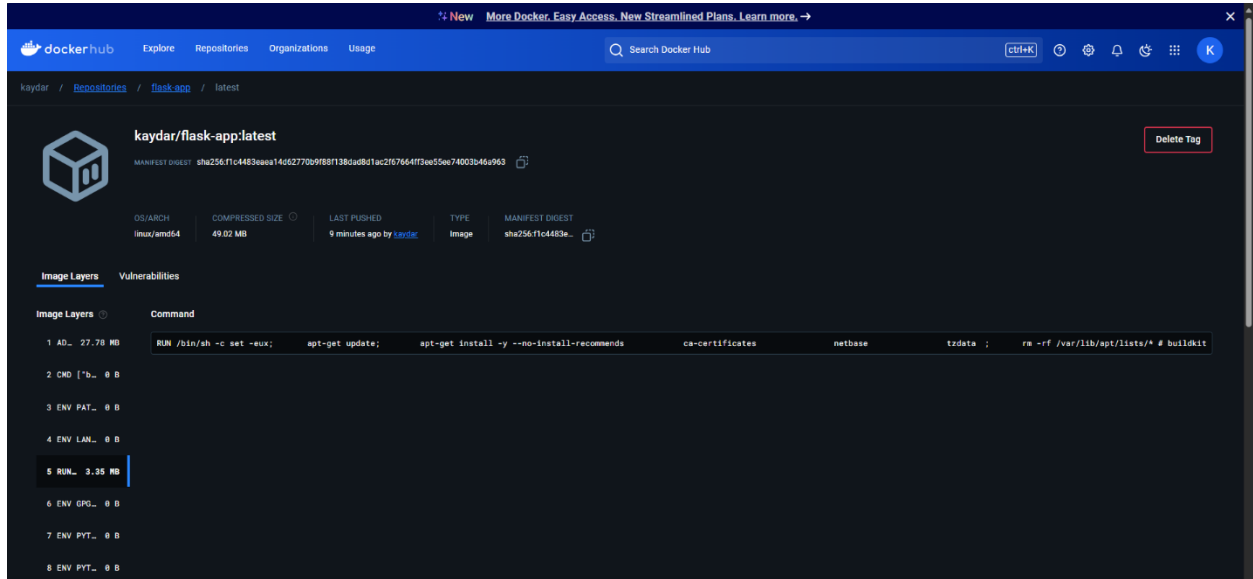
c548b2118d26: Layer already exists

v1.0: digest: sha256:f1c443b6a62778b9f88f13dadb81ac2f6766aff3ee5ee74003b4a093 size: 1783

kaydar@WALITECH-PC: ~\$

Screenshot of Docker image

```
kaydarkey@AMALITECH-PC-TKD-10665:/mnt/c/Users/SylvesterKafuiKof1Da/OneDrive - AmaliTech GmbH/Desktop/AmaliTech/labs/lab 9$ sudo docker images
[sudo] password for kaydarkey:
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
kaydar/flask-app    latest         755bde43c5b1   About an hour ago   136MB
kaydar/flask-app    v1.0          755bde43c5b1   About an hour ago   136MB
<none>              <none>        29e336c36feb   2 hours ago       126MB
<none>              <none>        2c32164fba02   2 hours ago       126MB
python              3.9-slim      6a22698eab0e   3 weeks ago       126MB
```



The screenshot shows the Docker Hub page for the `kaydar/flask-app:latest` image. The page includes a header with navigation links and a search bar. The main content area displays the image details, including the manifest digest, OS/ARCH, compressed size, last pushed time, type, and manifest digest. The image layers are listed, showing the command used to build the image.

OS/ARCH	COMPRESSED SIZE	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	49.02 MB	9 minutes ago by kaydar	Image	sha256:f1c4483e...

Image Layers

Layer	Size	Command
1 AD_	27.78 MB	RUN /bin/sh -c set -eux; apt-get update; apt-get install -y --no-install-recommends ca-certificates netbase tzdata ; rm -rf /var/lib/apt/lists/* # buildkit
2 CMD	1'b_	0 B
3 ENV	PAT_	0 B
4 ENV	LAN_	0 B
5 RUN_	3.35 MB	
6 ENV	GPG_	0 B
7 ENV	PYT_	0 B
8 ENV	PYT_	0 B