docker-assignment

Friday, 13 February 2026   8:50 AM
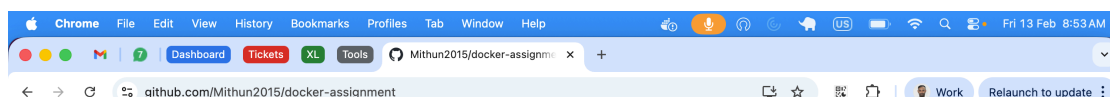
Application & GitHub Setup
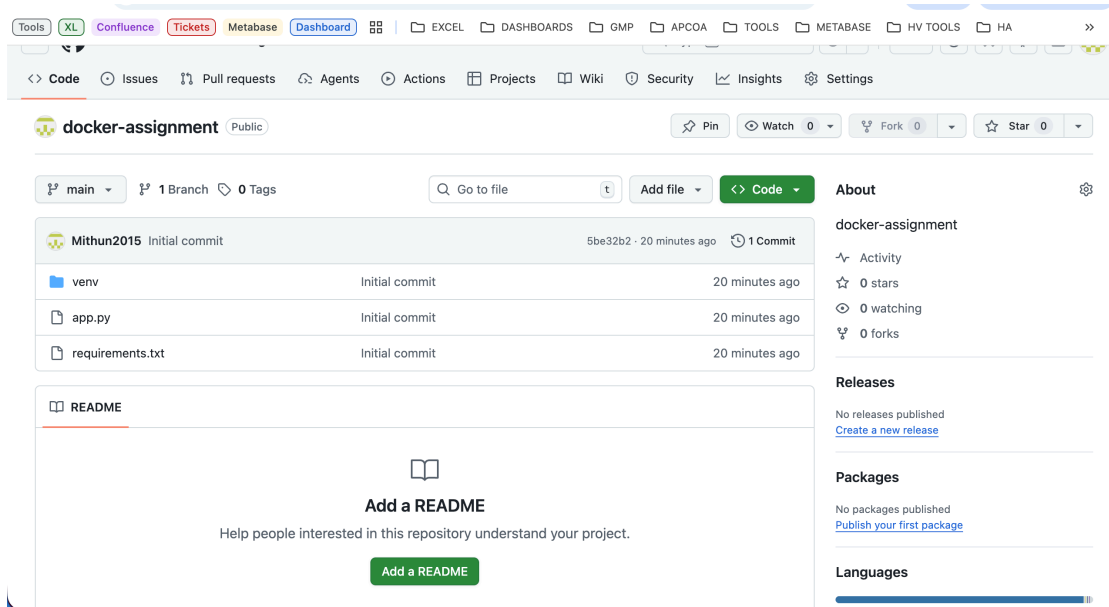
```
[(venv) admins-MacBook-Pro-5:docker-assignment admin$ pwd
/Users/admin/Desktop/HERO_VIRED/docker-assignment
(venv) admins-MacBook-Pro-5:docker-assignment admin$ 
```

```
[(venv) admins-MacBook-Pro-5:docker-assignment admin$ ls
app.py                    Dockerfile            requirements.txt        venv
(venv) admins-MacBook-Pro-5:docker-assignment admin$ 
```

```
[(venv) admins-MacBook-Pro-5:docker-assignment admin$ cat app.py
from flask import Flask

app = Flask(__name__)

@app.route("/")
def home():
    return "Hello from Docker."

if __name__ == "__main__":
    app.run(host="0.0.0.0", port=5000)

(venv) admins-MacBook-Pro-5:docker-assignment admin$ 
```

```
[(venv) admins-MacBook-Pro-5:docker-assignment admin$ cat requirements.txt
Flask==3.1.2
(venv) admins-MacBook-Pro-5:docker-assignment admin$
```

localhost:5000

HV_TOOLS   All Bookmarks

Hello from Docker.

github.com/Mithun2015/docker-assignment

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docker-assignment   Public

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About

docker-assignment

Mithun2015   Initial commit   5be32b2 · 20 minutes ago   1 Commit

Activity
0 stars
0 watching
0 forks

venv	Initial commit	20 minutes ago
app.py	Initial commit	20 minutes ago
requirements.txt	Initial commit	20 minutes ago

Releases

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README

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Help people interested in this repository understand your project.

Add a README

Packages

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Languages

Dockerfile & Image Build

```
Flask==3.1.2
[(venv) admins-MacBook-Pro-5:docker-assignment admin$ cat Dockerfile
# Base image
FROM python:3.9-slim

# Set working directory
WORKDIR /app

# Copy requirements first (for caching)
COPY requirements.txt .

# Install dependencies
RUN pip install --no-cache-dir -r requirements.txt

# Copy application code
COPY app.py .

# Expose application port
EXPOSE 5000

# Start the application
CMD ["python", "app.py"]

(venv) admins-MacBook-Pro-5:docker-assignment admin$
```

Docker Build

```
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker build -t flask-docker-app .
```
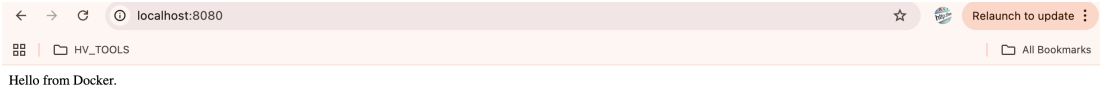
Check Docker images after build

```
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker images
REPOSITORY                    TAG        IMAGE ID         CREATED         SIZE
flask-docker-app              latest     2d327eef9963     8 minutes ago   226MB
```

Check container and docker status

```
netto world          latest    9b499ddbe9fd   6 months ago   18.3kB
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker ps
CONTAINER ID   IMAGE             COMMAND            CREATED        STATUS         PORTS                                           NAMES
244426a51256   flask-docker-app  "python app.py"    8 minutes ago  Up 8 minutes   0.0.0.0:8080->5000/tcp, [::]:8080->5000/tcp     sad_hertz
(venv) admins-MacBook-Pro-5:docker-assignment admin$
```

← → C ⓘ localhost:8080 ☆ 🔄 Relaunch to update ⋮

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Hello from Docker.

Docker Compose

```
[(venv) admins-MacBook-Pro-5:docker-assignment admin$ cat docker-compose.yml
 version: "3.9"

 services:
   flask-app:
     build: .
     container_name: flask-compose-app
     ports:
       - "8081:5000"

 (venv) admins-MacBook-Pro-5:docker-assignment admin$
```
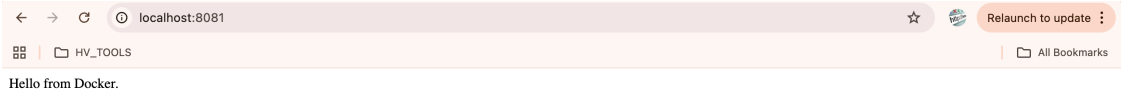
Compose up (detached mode)

```
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker-compose up -d
WARN[0000] /Users/admin/Desktop/HERO_VIRED/docker-assignment/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confus
ion
[+] Building 3.0s (12/12) FINISHED
 => [internal] load local bake definitions                                                                                    0.0s
 => => reading from stdin 583B                                                                                                 0.0s
 => [internal] load build definition from Dockerfile                                                                          0.0s
 => => transferring dockerfile: 388B                                                                                          0.0s
 => [internal] load metadata for docker.io/library/python:3.9-slim                                                            2.3s
 => [internal] load .dockerignore                                                                                             0.0s
 => => transferring context: 2B                                                                                               0.0s
 => [internal] load build context                                                                                            0.0s
 => => transferring context: 63B                                                                                             0.0s
 => [1/5] FROM docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aab1acda1e13cf1731b1b      0.0s
 => => resolve docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aab1acda1e13cf1731b1b      0.0s
 => CACHED [2/5] WORKDIR /app                                                                                                 0.0s
 => CACHED [3/5] COPY requirements.txt .                                                                                      0.0s
 => CACHED [4/5] RUN pip install --no-cache-dir -r requirements.txt                                                           0.0s
 => CACHED [5/5] COPY app.py .                                                                                                0.0s
 => => exporting to image                                                                                                     0.1s
 => => exporting layers                                                                                                       0.0s
 => => exporting manifest sha256:5dd3152b52fba9963e116f979f4f60ceb1daf5b455f3be18e7d2c4914495d418                             0.0s
 => => exporting config sha256:e9c81648b36bb2fc502bfe5b67ebd132c2b77cce746ab6da1d62e06d55e5ba5b                               0.0s
 => => exporting attestation manifest sha256:6c3ffea34801019d6d2209ed963f050f92c615a328836897cfcdc2e84ec6f3f9                 0.0s
 => => exporting manifest list sha256:4f283631597c6646afdd9b08c4b3366a1755bf796e3a6fa945f0630f06bf4e0a                        0.0s
 => => naming to docker.io/library/docker-assignment-flask-app:latest                                                         0.0s
 => => unpacking to docker.io/library/docker-assignment-flask-app:latest                                                      0.0s
 => resolving provenance for metadata file                                                                                    0.0s
[+] Running 3/3
 ✔ docker-assignment-flask-app           Built                                                                                0.0s
 ✔ Network docker-assignment_default     Created                                                                              0.1s
 ✔ Container flask-compose-app           Started                                                                              0.4s
(venv) admins-MacBook-Pro-5:docker-assignment admin$
```

Check the running container and docker names .

```
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker-compose ps
WARN[0000] /Users/admin/Desktop/HERO_VIRED/docker-assignment/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confus
ion
NAME              IMAGE                         COMMAND          SERVICE     CREATED         STATUS          PORTS
flask-compose-app  docker-assignment-flask-app  "python app.py"  flask-app   22 seconds ago  Up 22 seconds   0.0.0.0:8081->5000/tcp, [::]:8081->5000/tcp
You have new mail in /var/mail/admin
(venv) admins-MacBook-Pro-5:docker-assignment admin$
```

Access the application on web browser

← → C ⓘ localhost:8081 ☆ 🔄 Relaunch to update ⋮

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Hello from Docker.

Check Docker Logs

```
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker-compose logs
WARN[0000] /Users/admin/Desktop/HERO_VIRED/docker-assignment/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confus
ion
flask-compose-app  |  * Serving Flask app 'app'
flask-compose-app  |  * Debug mode: off
flask-compose-app  | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
flask-compose-app  |  * Running on all addresses (0.0.0.0)
flask-compose-app  |  * Running on http://127.0.0.1:5000
flask-compose-app  |  * Running on http://172.18.0.2:5000
flask-compose-app  | Press CTRL+C to quit
flask-compose-app  | 192.168.65.1 - - [13/Feb/2026 03:31:18] "GET / HTTP/1.1" 200 -
flask-compose-app  | 192.168.65.1 - - [13/Feb/2026 03:31:18] "GET /favicon.ico HTTP/1.1" 404 -
(venv) admins-MacBook-Pro-5:docker-assignment admin$
```

Down Docker

```
flask-compose-app  | 192.168.65.1 - - [13/Feb/2026 03:31:18] "GET /favicon.ico HTTP/1.1" 404 -
(venv) admins-MacBook-Pro-5:docker-assignment admin$ docker-compose down
WARN[0000] /Users/admin/Desktop/HERO_VIRED/docker-assignment/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confus
ion
[+] Running 2/2
 ✔ Container flask-compose-app       Removed                                                                                                                                    1.3s
 ✔ Network docker-assignment_default  Removed                                                                                                                                    0.2s
(venv) admins-MacBook-Pro-5:docker-assignment admin$
```