

PS C:\Users\chuhl\docker-cd-practice\html-flask-sql-redis-task> tree /f

Folder PATH listing

Volume serial number is 288A-E689

C:.

```
├── docker-compose.yml
├── backend
│   ├── app.py
│   ├── Dockerfile
│   └── requirements.txt
└── frontend
    ├── Dockerfile
    └── index.html
```

PS C:\Users\chuhl\docker-cd-practice\html-flask-sql-redis-task> docker-compose up --build

[+] Building 1.9s (20/20) FINISHED

```
=> [internal] load local bake definitions                                0.0s
=> => reading from stdin 1.20kB                                         0.0s
=> [frontend internal] load build definition from Dockerfile            0.0s
=> => transferring dockerfile: 121B                                     0.0s
=> [backend internal] load build definition from Dockerfile             0.0s
=> => transferring dockerfile: 198B                                     0.0s
=> [backend internal] load metadata for docker.io/library/python:3.11-slim 0.6s
=> [frontend internal] load metadata for docker.io/library/nginx:alpine 0.6s
=> [backend internal] load .dockerignore                               0.0s
=> => transferring context: 2B                                          0.0s
=> [frontend internal] load .dockerignore                               0.0s
=> => transferring context: 2B                                          0.0s
=> [backend 1/5] FROM docker.io/library/python:3.11-slim@sha256:193fdd0bbcb3d2ae612bd6cc3548d2f7c78d65b549fcaa8af75624c47474444d 0.0s
=> => resolve docker.io/library/python:3.11-slim@sha256:193fdd0bbcb3d2ae612bd6cc3548d2f7c78d65b549fcaa8af75624c47474444d 0.0s
=> [backend internal] load build context                                0.0s
=> => transferring context: 63B                                         0.0s
=> [frontend internal] load build context                                0.0s
=> => transferring context: 32B                                         0.0s
=> [frontend 1/2] FROM docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb430e32f646adc92441b72f82b14 0.0s
=> => resolve docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb430e32f646adc92441b72f82b14 0.0s
=> CACHED [backend 2/5] WORKDIR /app                                    0.0s
=> CACHED [backend 3/5] COPY requirements.txt .                         0.0s
=> CACHED [backend 4/5] RUN pip install -r requirements.txt            0.0s
=> CACHED [backend 5/5] COPY app.py .                                   0.0s
```

```
backend-1 | * Serving Flask app 'app'
backend-1 | * Debug mode: off
frontend-1 | /docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
```

View in Docker Desktop

View Config

Enable Watch

```
frontend-1 | /docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.shUse a production WSGI server instead.
backend-1 | * Running on all addresses (0.0.0.0)
frontend-1 | /docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
backend-1 | * Running on http://127.0.0.1:5000

backend-1 | * Running on http://172.19.0.4:5000
```

```
backend-1 | Press CTRL+C to quit
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: nginx/1.29.3
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: built by gcc 14.2.0 (Alpine 14.2.0)
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: OS: Linux 6.6.87.2-microsoft-standard-WSL2
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker processes
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 30
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 31
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 32
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 33
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 34
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 35
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 36
frontend-1 | 2025/11/30 18:23:16 [notice] 1#1: start worker process 37
backend-1 | 172.19.0.1 - - [30/Nov/2025 18:23:19] "GET / HTTP/1.1" 200 -
frontend-1 | 172.19.0.1 - - [30/Nov/2025:18:23:28 +0000] "GET / HTTP/1.1" 200 705 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/142.0.0.0 Safari/537.36 Edg/142.0.0.0" "-"
backend-1 | 172.19.0.1 - - [30/Nov/2025 18:23:30] "GET / HTTP/1.1" 200 -
backend-1 | 172.19.0.1 - - [30/Nov/2025 18:23:30] "GET / HTTP/1.1" 200 -
db-1 | 2025-11-30 18:28:15.799 UTC [28] LOG: checkpoint starting: time
db-1 | 2025-11-30 18:28:19.839 UTC [28] LOG: checkpoint complete: wrote 43 buffers (0.3%); 0 WAL file(s) added, 0 removed, 0 recycled; write=4.019 s
, sync=0.010 s, total=4.040 s; sync files=11, longest=0.004 s, average=0.001 s; distance=252 kB, estimate=252 kB
```

View in Docker Desktop

View Config

Enable Watch



localhost:5000

Hello from **BackEnd**: Flask, PostgreSQL, Redis!



localhost:8080

Hello, user!

It is **FrontEnd** container, where u can call **BackEnd (Flask)**:

Call backend

Hello from Flask, PostgreSQL, Redis!