

Docker compose – Exercise

Service response

Body

Cookies

Headers (6)

Test Results

🌐

Status: 200 OK

Time: 70 ms

Size: 309 B

Pretty

Raw

Preview

Visualize

Hello from ::ffff:172.22.0.1 : 55660
to ::ffff:172.22.0.3 : 8001
Hello from ::ffff:172.22.0.3 : 48524
to ::ffff:172.22.0.2 : 8002

docker container ls

```
Chaliths-MBP:docker-compose-cs user$ docker container ls
```

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS | NAMES |
|--------------|-----------------------------|--------------------------|----------------|---------------|------------------------|-------------------------------|
| 6d5f34ee57e2 | docker-compose-cs_service01 | "docker-entrypoint.s..." | 40 seconds ago | Up 38 seconds | 0.0.0.0:8001->8001/tcp | docker-compose-cs_service01_1 |
| aff086068843 | docker-compose-cs_service02 | "docker-entrypoint.s..." | 40 seconds ago | Up 38 seconds | 8002/tcp | docker-compose-cs_service02_1 |

docker network ls

```
Chaliths-MBP:docker-compose-cs user$ docker network ls
```

| NETWORK ID | NAME | DRIVER | SCOPE |
|--------------|---------------------------|--------|-------|
| 7092f0b2102d | bridge | bridge | local |
| b90ddc00d6ef | docker-compose-cs_backend | bridge | local |
| fb47209a3dc4 | host | host | local |
| ea85f17c629c | none | null | local |

```
Chaliths-MBP:docker-compose-cs user$
```

In here service 01 is getting request from host 172.22.0.1 and port 55660. This is the GET request I sent through the postman application for service01 with <http://localhost:8001> URL. Ideally this host should be localhost but the docker is creating a separate gateway for the localhost binding with port 8001 with same subnet as the created network in docker-compose.yaml (docker-compose-cs_backend). Then the request was sent to 172.22.0.3 host and port 8001 which is the subnet of service 01. Next request is sent from service 01(172.22.0.3) to service 02 host of 172.22.0.2 and port 8002.

Please note that this exercise was done in macOS and according to some findings the default docker networks are behaving in a different way in macOS than linux.

Reference - <https://dimitraz.github.io/blog/post/docker-networking/>