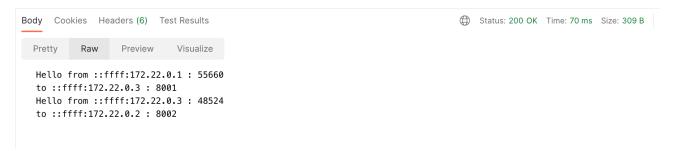
Docker compose – Exercise

Service response



docker container Is

| 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 Is

```
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
                                                       local
ea85f17c629c
                                            null
               none
                                                       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/