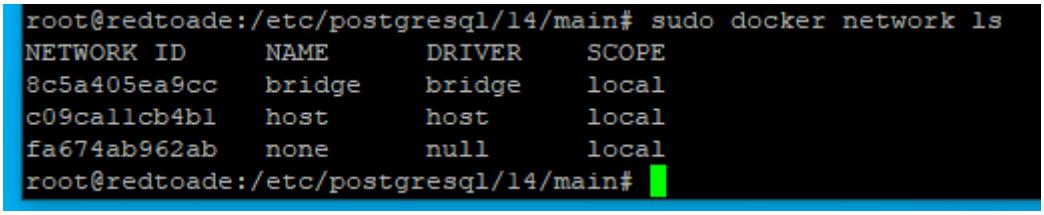
UFW and Docker

When running containers in Docker, you will come across the need for a container to gain access to a resource on the host.
If you have UFW firewall enabled, you will need to allow ingress from the docker network, running on the host.

To identify the docker network, run this:

```
sudo docker network ls
```

It will return the list of docker networks:



Next, you need to identify the docker network where your containers are addressed.
To do this, run the following on each network name:

```
sudo docker network inspect bridge
```

The above command will give you a list of containers and their addresses and subnets.

Next, you will update the ufw firewall rules to allow incoming connection from the docker subnet, like this:

```
sudo ufw allow from 172.17.0.0/16
```

You can check the status and rules with:

```
sudo ufw status
```

This will return something like this:

```
root@redtoade:/etc/postgresql/14/main# sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
80/tcp                     ALLOW       Anywhere
443                        ALLOW       Anywhere
62168                      ALLOW       Anywhere
80                         ALLOW       Anywhere
Anywhere                   ALLOW       172.17.0.0/16
80/tcp (v6)                ALLOW       Anywhere (v6)
443 (v6)                   ALLOW       Anywhere (v6)
62168 (v6)                 ALLOW       Anywhere (v6)
80 (v6)                    ALLOW       Anywhere (v6)

root@redtoade:/etc/postgresql/14/main#
```

Now, you should be able to access host resources from a docker container, with UFW enabled.

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