Docker Networking Hands-on Lab

Time spent: 60 min

1. Networking Basics

Network command

```
$ docker network ls
NETWORK ID
                    NAME
                                          DRIVER
                                                              SCOPE
28570c73b7c1
                     bridge
                                          bridge
                                                               local
fe873c539f6f
                     host
                                          host
                                                               local
01d167c94a01
                                          null
                                                              local
                    none
```

• Inspect a network

2. Bridge Networking

Basics

```
[node1] (local) root@192.168.0.28 ~
$ apk update
fetch http://dl-cdn.alpinelinux.org/alpine/v3.8/main/x86 64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.8/community/x86 64/APKINDEX.tar.gz
v3.8.1-45-g1d77558b1e [http://dl-cdn.alpinelinux.org/alpine/v3.8/main]
v3.8.1-42-ge6bc061baf [http://dl-cdn.alpinelinux.org/alpine/v3.8/community]
OK: 9545 distinct packages available
[node1] (local) root@192.168.0.28 ~
$ apk add bridge
OK: 302 MiB in 111 packages
[node1] (local) root@192.168.0.28 ~
$ brctl show
bridge name
               bridge id
                                        STP enabled
                                                        interfaces
docker0
               8000.0242e1ae1571
[node1] (local) root@192.168.0.28 ~
```

Connect a container

```
[node1] (local) root@192.168.0.28 ~
$ docker run -dt ubuntu sleep infinity
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
473ede7ed136: Pull complete
c46b5fa4d940: Pull complete
93ae3df89c92: Pull complete
6b1eed27cade: Pull complete
Digest: sha256:29934af957c53004d7fb6340139880d23fb1952505a15d69a03af0d1418878cb
Status: Downloaded newer image for ubuntu:latest
baa21b73ac15025d3618481d62f14acfaed98382c356e855f61f93aee7f9c78e
```

3. Overlay Networking

Summary

In this lab, I have learned the knowledge about network in the container.