Lab: Docker 實做練習 sshd

参考: <a href="https://github.com/sakanamax/SA">https://github.com/sakanamax/SA</a> dockerReading/blob/master/Dockerfile/sshd/openSUSE423sshd Dockerfile

建立工作目錄

\$ mkdir sshd

進入工作目錄 \$ cd sshd

取得練習 Dockerfile

\$ wget https://raw.githubusercontent.com/sakanamax/SA\_dockerReading/master/Dockerfile/sshd/openSUSE423sshd\_Dockerfile

將檔案重新命名

\$ mv openSUSE423sshd Dockerfile Dockerfile

請觀察 Dockerfile 内容

\$ cat Dockerfile

觀察 docker images \$ docker images

進行 docker build

\$ docker build -t testrepo/sshd\_opensuse423.

觀察 docker images \$ docker images

REPOSITORY TAG **IMAGE ID** CREATED SIZE testrepo/sshd\_opensuse423 latest f575e03b0440 9 seconds ago 213MB busybox latest 8c811b4aec35 6 weeks ago 1.15MB opensuse 42.3 35057ab4ef08 2 months ago 110MB 35057ab4ef08 opensuse latest 2 months ago 110MB

以背景方式執行 docker 隨機指定 port publish \$ docker run -d -P testrepo/sshd opensuse423

觀察相關資訊

\$ docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES f3ddd5146418 testrepo/sshd\_opensuse423 "/usr/sbin/sshd -D" 3 minutes ago Up 3 minutes 0.0.0.0:32768->22/tcp objective\_mccarthy

使用 ssh 指令進行連接測試, 例如 ssh -l root SERVER\_IP -p XXXX

指定 port 方式執行 sshd

\$ docker run -d -p 8022:22 testrepo/sshd\_opensuse423

## 以相同方式練習

https://github.com/sakanamax/SA\_dockerReading/tree/master/Dockerfile/jupyterhub

https://github.com/sakanamax/SA dockerReading/tree/master/Dockerfile/R shiny

## Lab: docker exec

# 觀察資訊

## \$ docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

8a38d6ab1bd6 testrepo/sshd\_opensuse423 "/usr/sbin/sshd -D" 9 minutes ago Up 9 minutes 0.0.0.0:8022->22/tcp eloquent\_neumann f3ddd5146418 testrepo/sshd\_opensuse423 "/usr/sbin/sshd -D" 17 minutes ago Up 17 minutes 0.0.0.0:32768->22/tcp objective\_mccarthy

#### docker exec

- Run a command in a running container
- 會在 container 啓動 2nd process 執行

## 直接執行指令方式

#### \$ docker exec 8a38d6ab1bd6 cat /etc/hosts

127.0.0.1 localhost

::1 localhost ip6-localhost ip6-loopback

fe00::0 ip6-localnet ff00::0 ip6-mcastprefix ff02::1 ip6-allnodes ff02::2 ip6-allrouters

172.17.0.3 8a38d6ab1bd6

## 拿來執行 shell

\$ docker exec -it 8a38d6ab1bd6 /bin/bash

## docker attach

- attach Attach to a running container 針對已經執行的 container 再次進入到容器内
- 如果使用 --sig-proxy=false 的方式(預設 --sig-proxy=true)那 Ctrl + C 之後 container 不會停止