Lab: 建立 docker 映像檔-修改現有映像檔

方式 1 修改現有的映像檔

觀察 container
docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES

docker ps -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES

首先對之前下的指令進行解釋
docker run --rm -i -t opensuse /bin/bash
- run 執行 docker
- --rm Automatically remove the container when it exits
- -i Keep STDIN open even if not attached
- -t Allocate a pseudo-TTY

在 container 內
bash-4.2# echo $HOSTNAME
272dfd16c792

請另外啓動終端機觀察(如果是在自己機器上面)
docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
272dfd16c792	opensuse	"/bin/bash"	About a minute ago	Up About a minute		mad_poitras

在 container 內
bash-4.2# exit

觀察 container
docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES

docker ps -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES

接下來嘗試 沒有 --rm 的差異 (這次不加上 --rm, 也就是説 exit 之後不刪除)
docker run -i -t opensuse /bin/bash

在 container 內
bash-4.2# exit

觀察 container
docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES

docker ps -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
1dd047e1ec6b	opensuse	"/bin/bash"	36 seconds ago	Exited (0) 29 seconds ago		thirsty_archimedes

再次執行一個新的 container
docker run -i -t opensuse /bin/bash

bash-4.2# rpm -qa | grep ssh
libssh2-1-1.4.3-15.1.x86_64

bash-4.2# zypper -n install openssh
Retrieving repository 'NON-OSS' metadata ....[done]
Building repository 'NON-OSS' cache ....[done]
Retrieving repository 'OSS' metadata ....[done]
Building repository 'OSS' cache ....[done]
Retrieving repository 'OSS Update' metadata ....[done]
Building repository 'OSS Update' cache ....[done]
Retrieving repository 'Update Non-Oss' metadata ....[done]
Building repository 'Update Non-Oss' cache ....[done]
Loading repository data...
Reading installed packages...
Resolving package dependencies...

The following 3 NEW packages are going to be installed:
    libedit0 libncurses6 openssh

The following 3 packages are recommended, but will not be installed (only required packages will be installed):
    audit openssh-helpers xauth

3 new packages to install.
Overall download size: 1.2 MiB. Already cached: 0 B. After the operation, additional 5.7 MiB will be used.
Continue? [y/n/? shows all options] (y): y
Retrieving package libncurses6-5.9-53.4.x86_64   (1/3), 349.5 KiB (1020.7 KiB unpacked)
Retrieving: libncurses6-5.9-53.4.x86_64.rpm ....[done]
Retrieving package libedit0-3.1.snap20140620-3.2.x86_64   (2/3), 94.9 KiB (247.1 KiB unpacked)
Retrieving: libedit0-3.1.snap20140620-3.2.x86_64.rpm ....[done]
Retrieving package openssh-6.6p1-11.1.x86_64   (3/3), 830.7 KiB (4.5 MiB unpacked)
Retrieving: openssh-6.6p1-11.1.x86_64.rpm ....[done]
Checking for file conflicts: ....[done]
(1/3) Installing: libncurses6-5.9-53.4.x86_64 ....[done]
(2/3) Installing: libedit0-3.1.snap20140620-3.2.x86_64 ....[done]
(3/3) Installing: openssh-6.6p1-11.1.x86_64 ....[done]
Additional rpm output:
Updating /etc/sysconfig/ssh...

bash-4.2# rpm -qa | grep ssh
libssh2-1-1.4.3-15.1.x86_64
openssh-6.6p1-11.1.x86_64

這樣這個映像檔就跟之前不一樣了

觀察 container (如果是用 play with docker, 請 exit container)
docker   ps -a
CONTAINER ID   IMAGE   COMMAND   CREATED   STATUS   PORTS   NAMES
f4b981edb1e5   opensuse   "/bin/bash"   5 minutes ago Up 5 minutes   sleepy_bhabha

接下來透過 docker commit 來建立新的
docker   commit -m "Add openssh" -a "sakana" f4b981edb1e5   testrepo/testimage:vTEST
c840a5f6ade64751dc26036af4ff6bd79dc42738f7cb3cd32385dc3d8aaee55a

- commit 提交一個新的 image

- -m 訊息 Commit message

- -a 作者 Author

- f4b981edb1e5 是 container ID
- testrepo/testimage:vTEST 是 Repository 名稱/映像檔名稱:TAG

觀察映像檔

```
# docker  images
```

REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
testrepo/testimage	vTEST	c840a5f6ade6	56 seconds ago	168.9 MB
opensuse	42.1	80bd0f661aef	5 weeks ago	97.74 MB
opensuse	latest	80bd0f661aef	5 weeks ago	97.74 MB
busybox	latest	b41c5284db84	7 weeks ago	1.093 MB