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 内

bash-4.2# echo \$HOSTNAME

272dfd16c792

請另外啓動終端機觀察

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 内

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 内 bash-4.2# exit

觀察 container

docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

docker ps -a

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]
Building repository 'Update Non-Oss' metadata [done]
Building 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]

 (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:
 [done]

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

docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES f4b981edb1e5 opensuse "/bin/bash" 5 minutes ago Up 5 minutes

接下來透過 docker commit 來建立新的

docker commit -m "Add openssh" -a "sakana" f4b981edb1e5 testrepo/testimage:vTEST c840a5f6ade64751dc26036af4ff6bd79dc42738f7cb3cd32385dc3d8aaee55a

sleepy_bhabha

- •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 secon	ds ago	168.9 MB
opensuse	42.1	80bd0f661aef	5 weeks ago		97.74 MB	
opensuse	latest	80bd0f661aef	5 weeks ago		97.74 1	MB
busybox	latest	b41c5284db84	7 we	eks ago	1.093 I	MB