Lab: Create docker image - modify image

Method 1 – Edit current image

Check container

docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

Execute docker run with --rm

docker run --rm -i -t opensuse /bin/bash

- run execute docker container
- --rm Automatically remove the container when it exits
- -i Keep STDIN open even if not attached
- t Allocate a pseudo-TTY

In container

bash-4.2# echo \$HOSTNAME

272dfd16c792

Please check your console (If you are in local machine, not cloud)

docker ps

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

In container

bash-4.2# exit

Check container

docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

Test docker run without --rm

docker run -i -t opensuse /bin/bash

在 container 内 bash-4.2# exit

Check 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

Execute a new 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] 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 package libedit0-3.1.snap20140620-3.2.x86_64 (2/3), 94.9 KiB (247.1 K Retrieving: libedit0-3.1.snap20140620-3.2.x86_64.rpm [done] (2/3), 94.9 KiB (247.1 KiB unpacked)

(3/3), 830.7 KiB (4.5 MiB unpacked) Retrieving package openssh-6.6p1-11.1.x86_64

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

(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

It is different with base image

Check container (If you use play with docker, please exit container)

docker ps -a CONTAINER ID IMAGE CREATED STATUS PORTS COMMAND

"/bin/bash" f4b981edb1e5 opensuse 5 minutes ago Up 5 minutes sleepy_bhabha

Use docker commit to create new docker image

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

NAMES

- commit Create a new image
- •-m Commit message
- •-a Author

•f4b981edb1e5 container ID

•testrepo/testimage:vTEST Repository Name/ImageName:TAG

Check Images

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	1atest	b41c5284db84	7 weeks ago	1.093 MB