

Lab: 建立 docker 映像檔-使用 Dockerfile

透過 `docker build` 指令來建立映像檔

首先觀察目前的路徑

```
# pwd  
/root
```

建立工作目錄

```
# mkdir sakana
```

進入該目錄

```
# cd sakana/
```

建立 Dockerfile

```
# vi Dockerfile
```

```
# 用於註解
```

```
# 後續的流程, 前面都要大寫
```

```
# FROM 基於那個 image
```

```
FROM opensuse:42.1
```

```
# MAINTAINER 維護作者
```

```
MAINTAINER Max Huang < sakana@study-area.org >
```

```
# RUN 要執行的指令
```

```
# 每一行就是一個 image layer, 儘量將同一種行為放同一行 使用 && 來連接
```

```
RUN zypper -n install openssh
```

使用 `docker build` 指令建立 image

這邊 最後面是 Dockerfile 所在目錄, 這邊使用 `.` 目前目錄來指定, 也可以使用絕對路徑

```
# docker build -t testrepo/buildimage .
```

```
Sending build context to Docker daemon 2.048 kB
```

```
Step 1 : FROM opensuse:42.1
```

```
----> 80bd0f661aef
```

```
Step 2 : MAINTAINER Max Huang < sakana@study-area.org >
```

```
----> Running in c4aba3a10ec7
```

```
----> a3f0f611196b
```

```
Removing intermediate container c4aba3a10ec7
```

```
Step 3 : RUN zypper -n install openssh
```

```
----> Running in 702c7f07ba12
```

```
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 (37.8 KiB/s)]
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...

```

```

---> c823a9e4a1a0
Removing intermediate container 702c7f07ba12
Successfully built c823a9e4a1a0

```

- -t 是 tag 後面為 repository 名稱/image 名稱
- 路徑為 Dockerfile 所在目錄, 跟他上層目錄叫啥名字沒有關係...

觀察映像檔

```

# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             VIRTUAL SIZE
testrepo/buildimage latest              c823a9e4a1a0       3 minutes ago      168.9 MB
testrepo/testimage  vTEST              c840a5f6ade6       12 hours 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       8 weeks ago        1.093 MB

```