

## Lab: SUSE Linux Enterprise Image for Docker

請開啟終端機 (於桌面上按滑鼠右鍵 --> 使用終端機開啟)

如果是用一般使用者登入, 請使用 `> su -` 輸入密碼來切換管理者 root

管理者的提示符號是 `#`

### 安裝 sle2docker 套件

```
# zypper install sle2docker
```

```
正在重新整理服務 'Containers_Module_12_x86_64'。
正在重新整理服務 'SUSE_Linux_Enterprise_Server_12_SP1_x86_64'。
正在載入套件庫資料...
讀取已安裝的套件...
正在解決套件相依性...
```

The following 6 NEW packages are going to be installed:

```
ruby2.1-rubygem-archive-tar-minitar ruby2.1-rubygem-docker-api ruby2.1-rubygem-excon
ruby2.1-rubygem-sle2docker ruby2.1-rubygem-thor sle2docker
```

6 new packages to install.

全部下載大小: 806.6 KiB。已快取: 0 B。完成操作後, 將增加 1.3 MiB 的使用。

要繼續嗎? [y/n/? 顯示所有選項] (y): **y** 輸入y確認安裝

### 列出可用的 SLES docker image

```
# sle2docker list
```

Available pre-built images:

No pre-built image found.

Pre-built images can be installed from SLE12 Update repository using zypper:

```
zypper install \"sle*-docker-image\"
```

### 確認可安裝 SLES docker images

```
# zypper search sles1*
```

```
正在重新整理服務 'Containers_Module_12_x86_64'。
正在重新整理服務 'SUSE_Linux_Enterprise_Server_12_SP1_x86_64'。
正在載入套件庫資料...
讀取已安裝的套件...
```

S   名稱	摘要	類型
sles11sp3-docker-image	SUSE Linux Enterprise Server 11sp3 image for Docker	package
sles11sp4-docker-image	SUSE Linux Enterprise Server 11sp4 image for Docker	package
sles12-docker-image	SUSE Linux Enterprise Server 12 image for Docker	package
<b>sles12sp1-docker-image</b>	SUSE Linux Enterprise Server 12sp1 image for Docker	package

### 安裝 SLES 12 SP 1 docker image

```
# zypper install sles12sp1-docker-image
```

```
正在重新整理服務 'Containers_Module_12_x86_64'。
正在重新整理服務 'SUSE_Linux_Enterprise_Server_12_SP1_x86_64'。
正在載入套件庫資料...
讀取已安裝的套件...
正在解決套件相依性...
```

The following NEW package is going to be installed:  
sles12sp1-docker-image

1 new package to install.

全部下載大小：22.9 MiB。已快取：0 B。完成操作後，將增加 22.5 MiB 的使用。  
要繼續嗎？ [y/n/? 顯示所有選項] (y): **y** 輸入y確認安裝

再次確認

# sle2docker **list**

Available pre-built images:

- **sles12sp1-docker.x86\_64-1.0.5-Build10.18**

列出 docker images

目前並沒有列出 SLES docker image

# docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
opensuse	42.1	63c4e5e0fa49	2 weeks ago	95.73 MB
opensuse	latest	63c4e5e0fa49	2 weeks ago	95.73 MB
busybox	latest	e02e811dd08f	3 weeks ago	1.093 MB
sakana/sshd	latest	c96ecaaba6c9	10 months ago	329.4 MB

啟用 SLES docker image

# sle2docker **activate sles12sp1-docker.x86\_64-1.0.5-Build10.18**

Verifying integrity of the pre-built image

Activating image

suse/sles12sp1:1.0.5 activated

再次檢查 docker image

# docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
<b>suse/sles12sp1</b>	1.0.5	d8d6ca91ecd7	37 seconds ago	98.88 MB
<b>suse/sles12sp1</b>	latest	d8d6ca91ecd7	37 seconds ago	98.88 MB
opensuse	42.1	63c4e5e0fa49	2 weeks ago	95.73 MB
opensuse	latest	63c4e5e0fa49	2 weeks ago	95.73 MB
busybox	latest	e02e811dd08f	3 weeks ago	1.093 MB
sakana/sshd	latest	c96ecaaba6c9	10 months ago	329.4 MB

觀察 openSUSE / SLES 軟體來源

openSUSE

# docker **run -it --rm opensuse /bin/bash**

**bash-4.2#** ls /etc/zypp/repos.d/

non-oss.repo oss-update.repo oss.repo update-non-oss.repo

**bash-4.2#** exit

SLES 12 Docker image

SLES 12 會自動相訂閱的服務加入到 container 內

執行 container

```
# docker run -it --rm suse/sles12sp1 /bin/bash
```

觀察目錄

```
bash-4.2# ls /etc/zypp/repos.d/
```

進行 zypper ref -s

```
bash-4.2# zypper ref -s
```

Refreshing service 'container-suseconnect'.

Adding repository 'SLES12-SP1-Debuginfo-Pool for sle-12-x86\_64' .....[done]

Adding repository 'SLES12-SP1-Debuginfo-Updates for sle-12-x86\_64' .....[done]

Adding repository 'SLES12-SP1-Pool for sle-12-x86\_64' .....[done]

Adding repository 'SLES12-SP1-Source-Pool for sle-12-x86\_64' .....[done]

Adding repository 'SLES12-SP1-Updates for sle-12-x86\_64' .....[done]

All services have been refreshed.

Retrieving repository 'SLES12-SP1-Pool for sle-12-x86\_64' metadata .....[done]

Building repository 'SLES12-SP1-Pool for sle-12-x86\_64' cache .....[done]

Retrieving repository 'SLES12-SP1-Updates for sle-12-x86\_64' metadata .....[done]

Building repository 'SLES12-SP1-Updates for sle-12-x86\_64' cache .....[done]

All repositories have been refreshed.

再次觀察

```
bash-4.2# ls /etc/zypp/repos.d/
```

container-suseconnect:SLES12-SP1-Debuginfo-Pool.repo

container-suseconnect:SLES12-SP1-Debuginfo-Updates.repo

container-suseconnect:SLES12-SP1-Pool.repo

container-suseconnect:SLES12-SP1-Source-Pool.repo

container-suseconnect:SLES12-SP1-Updates.repo

```
bash-4.2# exit
```