新壽-環境部屬指南(第一次建置適用)

最後編輯時間: 2025-05-08 (siang)

▼ SKL_EI Docker 部署流程 v2.0

▼ 載入映像檔

```
# 載入映像檔(依照版本命名)
docker load -i skl_ap0507.tar
docker load -i skl_web0507.tar
docker load -i skl_init0507.tar
```

驗證映像檔是否正確載入

siang@siang-ubuntu24:~/dev/src/SKL/SKL_IFRS9_CICD\$ docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
skl-ei-tomcat	2.0	8cce0dd05276	15 seconds ago	2.74GB
skl-ei-httpd	2.0	cbe3a134d6b7	About a minute ago	842MB
skl-ei-init	2.0	339094150ca7	2 minutes ago	4.28MB
openjdk	17.0.14	ed4185088f38	2 minutes ago	626MB

▼ 步驟 1: 移除舊容器(若已存在)

```
docker rm -f skl_ei_web skl_ei_ap
```

▼ 步驟 2:建立網路(若不存在)

docker network create \

- --driver=bridge \
- --subnet=172.22.0.0/16 \
- --ip-range=172.22.0.0/16 \
- --gateway=172.22.1.1 \

sklsit

驗證網路是否成功建立

```
siang@siang-ubuntu24:~/dev/src/SKL/SKL_IFRS9_CICD$ docker network ls
              NAME
                            DRIVER
                                      SC0PE
NETWORK ID
a516249a8b9a
              bridge
                            bridge
                                      local
1d09951b7a0f
              dev default
                            bridge
                                      local
b96793a6e8c0
              host
                                      local
                            host
                            null
7364af817c43 none
                                      local
d23005cd8fab
                            bridge
                                      local
```

▼ 步驟 3:建立 Volume

• SKL_EL_VOL_DATA : 用於持久化應用運行過程中的資料與日誌, 部署後無需重建, 可跨版本保留。

• SKL_EL_AP_DATA :用於 AP 與 WEB 共用的資料夾,應用更新前需重新建立以確保資料更新一致性。 <每次部版都要重新建立>

```
docker volume create SKL_EI_VOL_DATA
docker volume create SKL_EI_AP_DATA
```

驗證 volume 是否正確建立

```
    siang@siang-ubuntu24:~/dev/src/SKL/SKL_IFRS9_CICD$ docker volume ls
        DRIVER VOLUME NAME
        local SKL_EI_AP_DATA
        local SKL_EI_VOL_DATA
```

▼ 步驟 4:初始化資料 Volume(只需執行一次,後續不需重建)

```
docker run --rm \
-v SKL_EI_VOL_DATA:/data \
skl-ei-init:2.0
```

▼ 步驟 5:驗證 Volume 資料初始化結果

```
docker run --rm \
-v SKL_EI_VOL_DATA:/data \
skl-ei-init:2.0 \
Is -IR /data
```

驗證 volume 目錄結構是否正確建立

```
siang@siang-ubuntu24:~/dev/src/SKL/SKL_IFRS9_CICD$ docker run --rm \
   -v SKL_EI_VOL_DATA:/data \
   skl-ei-init:2.0 \
  ls -lR /data
/data:
 total 12
drwxr-xr-x
              6 1000
                          1000
                                        4096 May 8 08:38 ap
drwxr-xr-x
              2 1000
                          1000
                                        4096 May 8 08:21 apache-logs
                                        4096 May 8 08:21 tomcat-logs
drwxr-xr-x
              2 1000
                          1000
 /data/ap:
 total 16
drwxr-xr-x
              2 1000
                          1000
                                        4096 May
                                                 8 08:21 API LOG
               2 1000
                          1000
                                                  8 08:21 HISTUPLOAD
drwxr-xr-x
                                        4096 May
drwxr-xr-x
               2 1000
                          1000
                                        4096 May 8 08:21 OUTFILE
drwxr-xr-x
              2 1000
                          1000
                                        4096 May 8 08:21 UPLOAD
 /data/ap/API LOG:
 total 0
 /data/ap/HISTUPLOAD:
total 0
 /data/ap/OUTFILE:
 total 0
/data/ap/UPLOAD:
total 0
 /data/apache-logs:
total 0
 /data/tomcat-logs:
 total 0
```

本機實體位置參考:

```
# 需切換至 root 權限
sudo su
cd /var/lib/docker/volumes/SKL_EI_VOL_DATA/_data
```

▼ 步驟 6:啟動 httpd 容器(前端)

```
docker run -dt \
--network sklsit \
--restart unless-stopped \
--name skl_ei_web \
--hostname skl_ei_web \
--user apuser \
-p 9001:443 \
--ip 172.22.0.2 \
-v SKL_EI_VOL_DATA:/data \
-v SKL_EI_AP_DATA:/home/skladmin/tomcat/jhapps/DATA/DOWNLOAD \
skl-ei-httpd:2.0
```

驗證服務是否正常啟動

```
# 日誌判斷 (success RUNNING)
docker logs skl_ei_web -f

# 狀態判斷 (healthy)
docker ps -a

# 網址判斷
https://test-vipfrontend.skl.com.tw:9001
```

```
sianghsiang-ubuntu24- /dev/src/SML/SML_IFRS9_CICDS docker logs skl el web f

2025-89-80 16-45:18-455, [1MP0], -docker-entrypoint.sh-, Checking if OpenSSL is installed...

2025-89-80 16-45:18-455, [1MP0], -docker-entrypoint.sh-, OpenSSL version. OpenSSL 3.2.2 4 Jun 2024 (Library: OpenSSL 3.2.2 4 Jun 2024)

2025-89-80 16-45:18-457, [1MP0], -docker-entrypoint.sh-, Starting certificate verification process...

2025-89-80 16-45:18-457, [1MP0], -docker-entrypoint.sh-, Starting certificate verification process...

2025-89-80 16-45:15-462, [1MP0], -docker-entrypoint.sh-, Senerating OpenSSL config: /etc/httpd/private/openssl.orf

2025-89-80 16-45:15-595, [1MP0], -docker-entrypoint.sh-, Generating OpenSSL config: /etc/httpd/private/penssl.orf

2025-89-80 16-45:15-595, [1MP0], -docker-entrypoint.sh-, Generating openSt config deleted

2025-89-80 16-45:15-595, [1MP0], -docker-entrypoint.sh-, Generating openSt config deleted

2025-89-80 16-45:15-595, [1MP0], -docker-entrypoint.sh-, Senerating openSt config deleted

2025-89-80 16-45:15-595, [1MP0], -docker-entrypoint.sh-, Senerating openSt config deleted

2025-89-80 16-45:15-595, [1MP0], -docker-entrypoint.sh-, Senerating onengies deleted and saved to /etc/httpd/private/skl_server.crt

2025-89-80 16-45:15-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord -c /etc/supervisord.conf

2025-89-80 16-45:15-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord -c /etc/supervisord.conf

2025-89-80 16-45:15-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord -c /etc/supervisord.conf

2025-89-80 16-45:15-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord -c /etc/supervisord.conf

2025-89-80 16-45:16-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord -c /etc/supervisord.conf

2025-89-80 16-45:16-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord -c /etc/supervisord.conf

2025-89-80 16-45:16-585, [1MP0], -docker-entrypoint.sh-, Executing command: supervisord.conf

2025-89-80 16-45:16-585, [1
```

▼ 步驟 7:啟動 tomcat 容器(後端)

```
docker run -dt \
--network sklsit \
--restart unless-stopped \
--name skl_ei_ap \
--hostname skl_ei_ap \
--user apuser \
-p 9002:8443 \
--ip 172.22.0.3 \
-v SKL_EI_VOL_DATA:/data \
-v SKL_EI_AP_DATA:/home/skladmin/tomcat/jhapps/DATA/DOWNLOAD \
skl-ei-tomcat:2.0
```

驗證服務是否正常啟動

```
# 日誌判斷 (success RUNNING)
docker logs skl_ei_ap -f
# 08-May-2025 16:50:03.390 INFO [main] org.apache.catalina.startup.HostConfig.deploy[
# 狀態判斷 (healthy)
docker ps -a
# 網址判斷
# [ServiceMgr 應用]
https://test-vipfrontend.skl.com.tw:9002/ServiceMgr/
# [MiddleWare 應用]
https://test-vipfrontend.skl.com.tw:9002/MiddleWare/jh/CLIENT/ip/CIP/99
```

