## 13、DockerFile脚本文件命令之CMD和ENTRYPOINT命令区别

CMD # 指定这个容器启动的时候要运行的命令,只有最后一个会性效。可被替代 ENTRYPOINT # 指定这个容器启动的时候要运行的命令,可以追加命令



[:=]

## (1)测试CMD命令

在docker run运行镜像时CMD后面的Is -a会被执行

```
[root@kuangshen dockerfile]# ls
mydockerfile-centos
[root@kuangshen dockerfile]# vim dockerfile-cmd-test
[root@kuangshen dockerfile]# docker build -f dockerfile-cmd-test -t cmdtest .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM centos
---> 470671670cac
                                              FROM centos
Step 2/2 : CMD ["ls","-a"]
                                              CMD ["ls", "-a"]
---> Running in 2eb999755110
Removing intermediate container 2eb999755110
---> dd8e4401d72f
Successfully built dd8e4401d72f
Successfully tagged cmdtest:latest
                                               -- INSERT --
[root@kuangshen dockerfile]#
[root@kuangshen dockerfile]# docker run dd8e4401d72f
 .dockerenv
bin
dev
etc
home
lib
lib64
lost+found
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
[root@kuangshen dockerfile]#
```

```
0
```

## 可以看到直接追加Is -al是没有问题的,直接替换了CMD命令

```
[root@kuangshen dockerfile]# docker run dd8e4401d72f(ls -al
total 56
drwxr-xr-x 1 root root 4096 May 15 13:13 .
drwxr-xr-x 1 root root 4096 May 15 13:13 ...
-rwxr-xr-x 1 root root
                          0 May 15 13:13 .dockerenv
lrwxrwxrwx 1 root root
                        7 May 11 2019 bin -> usr/bin
drwxr-xr-x 5 root root 340 May 15 13:13 dev
drwxr-xr-x 1 root root 4096 May 15 13:13 etc
drwxr-xr-x 2 root root 4096 May 11 2019 home
lrwxrwxrwx 1 root root
                         7 May 11 2019 lib -> usr/lib
                          9 May 11 2019 lib64 -> usr/lib64
lrwxrwxrwx 1 root root
drwx----- 2 root root 4096 Jan 13 21:48 lost+found
drwxr-xr-x 2 root root 4096 May 11 2019 media
drwxr-xr-x 2 root root 4096 May 11 2019 mnt
drwxr-xr-x 2 root root 4096 May 11 2019 opt
dr-xr-xr-x 118 root root
                          0 May 15 13:13 proc
dr-xr-x--- 2 root root 4096 Jan 13 21:49 root
drwxr-xr-x 11 root root 4096 Jan 13 21:49 run
lrwxrwxrwx 1 root root 8 May 11 2019;sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 May 11 2019 srv
dr-xr-xr-x 13 root root
                          0 Mar 23 14:00 sys
drwxrwxrwt 7 root root 4096 Jan 13 21:49 tmp
drwxr-xr-x 12 root root 4096 Jan 13 21:49 usr
drwxr-xr-x 20 root root 4096 Jan 13 21:49 var
[root@kuangshen dockerfile]#
```

## (2)测试ENTRYPOINT命令

可以看到在docker run运行镜像时ENTRYPOINT后面的Is -a会被执行(此时和cmd没什么区别)

```
[root@kuangshen dockerfile]# vim dockerfile-cmd-entrypoint
[root@kuangshen dockerfile]# docker build -f dockerfile-cmd-entrypoint -t entoryponit-test .
Sending build context to Docker daemon 4.096kB
Step 1/2 : FROM centos
 ---> 470671670cac.
                                                           FROM centos
Step 2/2 : ENTRYPOINT ["ls", "-a"]
                                                           ENTRYPOINT ["ls", "-a"]
 ---> Running in 444b257920ef.
Removing intermediate container 444b257920ef
 ---> 3c4c9621ed91
                                                           -- INSERT --
Successfully built 3c4c9621ed91
Successfully tagged entoryponit-test:latest
[root@kuangshen dockerfile]# docker run 3c4c9621ed91
.dockerenv
bin
dev
etc
home
lib
lib64
lost+found
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
[root@kuangshen dockerfile]#
```

如果在运行镜像时增加一个命令-I,此时镜像中的ENTRYPOINT命令被执行,ENTRYPOINT命令会将-I命令追加到["is","-a"]后,最后变成is -ai,因为is -ai是正确命令,所以正常打印。

```
[root@kuangshen dockerfile]# docker run 3c4c9621ed91 (-1)
total 56
drwxr-xr-x 1 root root 4096 May 15 13:15 .
drwxr-xr-x 1 root root 4096 May 15 13:15 ...
-rwxr-xr-x 1 root root 0 May 15 13:15 .dockerenv
lrwxrwxrwx 1 root root 7 May 11 2019 bin -> usr/bin
drwxr-xr-x 5 root root 340 May 15 13:15 dev
drwxr-xr-x 1 root root 4096 May 15 13:15 etc
drwxr-xr-x 2 root root 4096 May 11 2019 home
lrwxrwxrwx 1 root root 7 May 11 2019 lib -> usr/lib
lrwxrwxrwx 1 root root 9 May 11 2019 lib64 -> usr/lib64
drwx----- 2 root root 4096 Jan 13 21:48 lost+found
drwxr-xr-x 2 root root 4096 May 11 2019 media
drwxr-xr-x 2 root root 4096 May 11 2019 mnt
drwxr-xr-x 2 root root 4096 May 11 2019 opt
dr-xr-xr-x 118 root root 0 May 15 13:15 proc
dr-xr-x--- 2 root root 4096 Jan 13 21:49 root
drwxr-xr-x 11 root root 4096 Jan 13 21:49 run
lrwxrwxrwx 1 root root 8 May 11 2019 sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 May 11 2019 srv
dr-xr-xr-x 13 root root 0 Mar 23 14:00 sys
drwxrwxrwt 7 root root 4096 Jan 13 21:49 tmp
drwxr-xr-x 12 root root 4096 Jan 13 21:49 usr
drwxr-xr-x 20 root root 4096 Jan 13 21:49 var
[root@kuangshen dockerfile]#
```



