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1 Docker Container Image Lifecycle
2
3 1. Container Image를 어떻게 사용하는가?
4   $ docker search --help
5   $ sudo docker search nginx
6
7   $ sudo docker pull nginx:1.24
8   or
9   nginx:tagname <--- 해당 이미지의 tagname은 docker hub에서 확인할 것
10
11   $ sudo docker image ls
12   $ sudo docker inspect nginx:1.24
13   $ sudo docker rmi nginx:1.24
14   $ sudo docker image ls
15
16
17 2. Container 실행 Lifecycle
18  1) Container 생성하기
19     $ sudo docker create --name webserver nginx:1.24
20
21  2) Container 실행하기
22     $ sudo docker start webserver
23     $ sudo docker ps
24     $ sudo docker inspect webserver
25     $ sudo docker stop webserver
26     $ sudo docker rm webserver
27
28  3) Container 생성 및 실행하기
29     $ sudo docker run --name webserver -d nginx:1.24
30     -run은 pull > create > start
31
32  4) 실행 중인 Container 목록 확인하기
33     $ sudo docker ps
34
35  5) 동작 중인 Container 중지
36     $ docker stop webserver
37
38  6) Container 삭제하기
39     $ docker rm webserver
40
41
42
43 3. 실습하기
44   $ sudo docker search nginx
45   $ sudo docker pull nginx:1.24
46   $ sudo docker images
47   $ sudo docker pull mysql
48   $ sudo docker pull mysql:8
49   8: Pulling from library/mysql
50   Status: Downloaded newer image for mysql:8
51   docker.io/library/mysql:8
52   $ docker images <--- mysql과 mysql:8이 서로 같은 Image ID..
53
54   $ sudo docker images --help
55   $ sudo docker images --no-trunc <--- Image ID를 Full로 보여줌.
56
57   $ sudo docker ps -a
58   $ sudo create --name webserver nginx:1.24 <--- 기본적으로 background로 실행
59   $ sudo docker ps -a
60   $ sudo docker start webserver
61   $ sudo docker ps -a
62   $ sudo inspect webserver <-- IP Address 확인할 것
63   $ sudo docker inspect --format '{{.NetworkSettings.IPAddress}}' webserver <--- IPAddress 만 확인
64   $ alias
65   $ alias cip="sudo docker inspect --format '{{.NetworkSettings.IPAddress}}' webserver"
66   $ alias
67   $ cip
68   $ unalias cip
69
70   $ curl 172.17.0.2
71   $ curl 172.17.0.2/aaa.html --> Not Found
72   $ sudo docker logs webserver
73
74   $ sudo docker logs -f webserver
75   -별도의 세션에서
76   $ curl 172.17.0.2
77   $ curl 172.17.0.2/aaa.html
78   --> 계속 log가 쌓이는 것 확인할 것
79
80   $ sudo docker top webserver -> 실행 중인 Container의 Process 목록 확인
81
82   $ sudo docker exec -it webserver /bin/bash
83   root@689e289e8b6f:/# cd /usr/share/nginx/html
84   root@689e289e8b6f:/usr/share/nginx/html# echo "Hello, World" > index.html

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85 root@689e289e8b6f:/usr/share/nginx/html# exit
86 exit
87 $ curl 172.17.0.2
88 Hello, World
89
90 $ sudo docker stop webserver
91 $ sudo docker ps -a
92 $ sudo docker start webserver
93 $ curl 172.17.0.2
94 Hello, World
95 $ sudo docker rm webserver
96 Error response from daemon: You cannot remove a running container
689e289e8b6f17b81388d5d5d7b605e0daf2d495fd0cf9837a044097473f87f5. Stop the container before attempting removal or
force remove
97
98 $ sudo docker rm -f webserver
99 $ sudo docker ps -a
100
```