Practicle Docker Commands

Due No Due Date **Points** 0



You must use elevated shell (CMD, POWER, BASH)



ullet You need to add "sudo", stands for **switch user and do**, at the begining of each command

Stop and Remove ALL containers

docker stop \$(docker ps -aq); docker rm \$(docker ps -aq)

Stop ALL containers

docker stop \$(docker ps -a -q)

Remove ALL containers

docker rm -f \$(docker ps -a -q)

For Containers:

```
docker stop $(docker ps -qa)
docker rm $(docker ps -qa)
```

For Images: docker rmi \$(docker images -qa) docker images docker rmi -f b00ea124ed62 529165268aa2 0c45f7936948 docker images

Volume Example usage:

```
docker run -v c:\ContainerData:c:\data:RO for read-only access
docker run -v c:\ContainerData:c:\data:RW for read-write access
docker run -v c:\ContainerData:c:\data for read-write access (default)

docker run -itd -p 8030:80 -m 1GB --name nginx1 -v c:/html:/usr/share/nginx/html nginx
docker run -itd -p 8040:80 -m 1GB --name nginx2 -v c:/html:/usr/share/nginx/html:ro nginx:v2
```

Docker run:

```
--privileged
       $ docker run -t -i --rm ubuntu bash
       root@bc338942ef20:/# mount -t tmpfs none /mnt
                                                        mount: permission denied
       $ docker run -t -i --privileged ubuntu bash
       root@50e3f57e16e6:/# mount -t tmpfs none /mnt
       root@50e3f57e16e6:/# df -h
                                                 Filesystem
                                                                 Size Used Avail Use% Mounted on
                                                                 1.9G
                                                                          0 1.9G
                                                                                    0% /mnt
                                                 none
-W
       $ docker run -w /path/to/dir/ -i -t ubuntu pwd
       The -w lets the command being executed inside directory given, here /path/to/dir/.
       Note : If the path does not exist it is created inside the container.
       docker run -itd -p 8050:80 -m 1GB --name nginx3 -w //usr//share//nginx//html -v c:/html:/usr/share/ng
inx/html nginx
-e, --env, --env-file
       $ docker run -e MYVAR1 --env MYVAR2=foo --env-file ./env.list ubuntu bash
       $ docker run --env VAR1=value1 --env VAR2=value2 ubuntu env | grep VAR
               VAR1=value1
                VAR2=value2
Limiting Memory
       $ docker run -d -p 8081:80 --memory=20m --memory-swap=20m nginx
       $ docker container run -d --memory-reservation=250m --name mymem1 alpine:3.8 sleep 3600
Limiting CPU
       --cpus
                Docker 1.13 and higher:
                        $ docker run -it --cpus=".5" ubuntu /bin/bash
                Docker 1.12 and lower:
                        $ docker run -it --cpu-period=100000 --cpu-quota=50000 ubuntu /bin/bash
                        $ docker run -it --cpus-shares="512" ubuntu /bin/bash
```

docker stats:

779eb8148aa7 nginx7 0.00% 1.914MiB / 8.75GiB 0.02% 906B / 0B 0B / 4.1kB 2

Create and start a container \$ docker create -t -i fedora bash 6d8af538ec541dd581ebc2a24153a28329acb5268abe5ef868c1f1a261221752

```
$ docker start -a -i 6d8af538ec5
bash-4.2#
```

Copy:

Logs: \$ docker logs 779eb8148aa7 --follow