Docker – First Image & Container

1. Let's start by checking whether the docker service is up and running.

2. Let's check the images in the docker.

\$ docker image Is

```
[root@localhost ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
[root@localhost ~]# █
```

Let's download the first image

\$ docker image Is

```
[root@localhost ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
docker.io/hello-world latest fce289e99eb9 7 months ago 1.84 kB
[root@localhost ~]# ☐
```

To give a custom name/tag name to the image

\$ docker tag hello-world:latest my-hello-world:latest

```
[root@localhost ~]# docker tag hello-world:latest my-hello-world:latest
[root@localhost ~]# docker image ls
REPOSITORY
                         TAG
                                             IMAGE ID
                                                                  CREATED
                                                                                      SIZE
docker.io/hello-world
                                                                                      1.84 kB
                         latest
                                             fce289e99eb9
                                                                  7 months ago
my-hello-world
                                             fce289e99eb9
                                                                                      1.84 kB
                         latest
                                                                  7 months ago
[root@localhost ~]#
```

This would create another image linking to the source image.

If you observe the IMAGE ID, for both the images are same.

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Note: -- New tag name that was created from the "hello-world" image does not consume any extra space on the disk.

It's just a extra name to the same image.

A very use full feature to maintain the images in a structured way.

3. Run the First Container.

Let's first list all the containers



\$ docker ps

This will list all the running containers.

Note: -- Currently there are no Running containers

\$ docker ps -a

This would list all the running and stopped containers



Note: -- Currently there are no Running and Stopped containers

\$ docker run hello-world

This will start the container from the image <hello-world> and stop it after printing the content.

As below.

Let's check the container list again.

\$ docker ps

We still don't see any containers.

Let's now check all container list.

\$ docker ps -a

The container ran from the image and stopped as there is no continuous process in it.

4. Delete the Container.

\$ docker rm <container ID>

```
[root@localhost ~]# docker container rm 2ea73691568f
2ea73691568f
[root@localhost ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
[root@localhost ~]# |
```

To force the container deletion add "-f", if there is an error or warning.

\$ docker rm <container ID> -f

To delete all the containers that are stopped all at once, we can use "prune".

\$ docker container prune

```
[root@localhost ~]# docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
82b6a1ce85543e74a30fd91f05a07d0a50838d16b3a6ac71113f1828e1cf797d
Total reclaimed space: 0 B
[root@localhost ~]# [
```