Module-2: Image Management and Registry

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DEMO-6: Creating a Local Registry

Note: All commands are executed as root.

1. To deploy a local registry use the following command

```
$ docker run -d -p 5000:5000 --restart=always --name registry registry:2
```

```
root@docker-1:~/dockDemo# docker run -d -p 5000:5000 --name registry registry:2
Unable to find image 'registry:2' locally
2: Pulling from library/registry
cbdbe7a5bc2a: Pull complete
47112e65547d: Pull complete
46bcb632e506: Pull complete
c1cc712bcecd: Pull complete
3db6272dcbfa: Pull complete
Digest: sha256:8be26f81ffea54106bae012c6f349df70f4d5e7e2ec01b143c46e2c03b9e551d
Status: Downloaded newer image for registry:2
6292192d7ae5478a1af800bfa3753d08d6dad38621aae224b57da5dac97292bd
```

2. Create a new image to push to the local registry. For this example we will pull the busybox image and tag it for our local repository

```
$ docker pull busybox

$ docker tag busybox localhost:5000/local-busybox
```

```
root@docker-1:~/dockDemo# docker tag busybox localhost:5000/local-busybox
root@docker-1:~/dockDemo# docker images
REPOSITORY                      TAG           IMAGE ID        CREATED          SIZE
edureka01/myimage               latest        168d5ca32694    23 minutes ago   189MB
edureka/myimage                 latest        7d5435a627e7    10 hours ago     189MB
<none>                          <none>        7a818341fa2d    11 hours ago     189MB
registry                        2             2d4f4b5309b1    7 days ago       26.2MB
ubuntu                          18.04         8e4ce0a6ce69    8 days ago       64.2MB
nginx                           latest        2622e6cca7eb    2 weeks ago      132MB
busybox                         latest        1c35c4412082    3 weeks ago      1.22MB
localhost:5000/local-busybox    latest        1c35c4412082    3 weeks ago      1.22MB
hello-world                     latest        bf756fb1ae65    5 months ago     13.3kB
```

3. Use the docker push command to push the image to the local repo

```
$ docker push localhost:5000/local-busybox
```

```
root@docker-1:~/dockDemo# docker push localhost:5000/local-busybox
The push refers to repository [localhost:5000/local-busybox]
1be74353c3d0: Pushed
latest: digest: sha256:fd4a8673d0344c3a7f427fe4440d4b8dfd4fa59cfabbd9098f9eb0cb4ba905d0 size: 527
```

4. To demonstrate pulling from the local repo, we will first delete the existing image and then pull

```
$ docker rmi localhost:5000/local-busybox
```

```
root@docker-1:~/dockDemo# docker rmi localhost:5000/local-busybox
Untagged: localhost:5000/local-busybox:latest
Untagged: localhost:5000/local-busybox@sha256:fd4a8673d0344c3a7f427fe4440d4b8dfd4fa59cfabbd9098f9eb0cb4ba905d0
```

5. Pull the image from the local repo using the pull command

```
$ docker pull localhost:5000/local-busybox
```

```
root@docker-1:~/dockDemo# docker pull localhost:5000/local-busybox
Using default tag: latest
latest: Pulling from local-busybox
Digest: sha256:fd4a8673d0344c3a7f427fe4440d4b8dfd4fa59cfabbd9098f9eb0cb4ba905d0
Status: Downloaded newer image for localhost:5000/local-busybox:latest
localhost:5000/local-busybox:latest
```

Deleting Local Registry

1. To delete the local registry, stop the registry container and then remove it

```
$ docker container stop registry && container rm –v registry
```