

1-docker version

```
helmy@ubuntu: ~  
helmy@ubuntu:~$ docker --version  
Docker version 24.0.1, build 6802122  
helmy@ubuntu:~$
```

2-run hello-world container

```
helmy@ubuntu: ~  
helmy@ubuntu:~$ docker image ls  
REPOSITORY      TAG          IMAGE ID      CREATED        SIZE  
node             node         bd472681863f  25 hours ago  187MB  
helloworled2    latest      0fdafaa6892e  2 weeks ago   7.33MB  
<none>          <none>      5c89e3f72667  2 weeks ago   7.33MB  
alpine          latest      5e2b554c1c45  2 weeks ago   7.33MB  
hello-world     latest      9c7a54a9a43c  2 weeks ago   13.3kB  
nginx           latest      448a08f1d2f9  2 weeks ago   142MB  
redis           latest      116cad43b6af  3 weeks ago   117MB  
ubuntu          latest      3b418d7b466a  4 weeks ago   77.8MB  
helmy@ubuntu:~$ docker run hello-world  
  
Hello from Docker!  
This message shows that your installation appears to be working correctly.  
  
To generate this message, Docker took the following steps:  
1. The Docker client contacted the Docker daemon.  
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
   (amd64)  
3. The Docker daemon created a new container from that image which runs the  
   executable that produces the output you are currently reading.  
4. The Docker daemon streamed that output to the Docker client, which sent it  
   to your terminal.
```

3-run redis container in attached mode

```
helmy@ubuntu: ~  
helmy@ubuntu:~$ docker run -d redis  
6681b0af01d6ebb3d25ddd32b472702701682fdbbf48dd74f2e2a83936516cb1  
helmy@ubuntu:~$
```

4-stop redis container

```
helmy@ubuntu: ~  
helmy@ubuntu:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS  
PORTS          NAMES  
6681b0af01d6   redis     "docker-entrypoint.s..." 5 minutes ago  Up 5 minutes  
6379/tcp      funny_hodgkin  
helmy@ubuntu:~$ docker stop 6681b0af01d6  
6681b0af01d6  
helmy@ubuntu:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES  
helmy@ubuntu:~$
```

5-check the ID of the redis container

```
helmy@ubuntu: ~  
helmy@ubuntu:~$ docker image ls  
REPOSITORY      TAG         IMAGE ID      CREATED        SIZE  
node             node        bd472681863f  25 hours ago  187MB  
helloworled2    latest     0fdafaa6892e  2 weeks ago   7.33MB  
<none>          <none>     5c89e3f72667  2 weeks ago   7.33MB  
alpine          latest     5e2b554c1c45  2 weeks ago   7.33MB  
hello-world     latest     9c7a54a9a43c  2 weeks ago   13.3kB  
nginx           latest     448a08f1d2f9  2 weeks ago   142MB  
redis           latest     116cad43b6af  3 weeks ago   117MB  
ubuntu          latest     3b418d7b466a  4 weeks ago   77.8MB  
helmy@ubuntu:~$
```

6-run nginx:alpine

```
helmy@ubuntu: ~  
helmy@ubuntu:~$ docker run nginx:alpine  
Unable to find image 'nginx:alpine' locally  
alpine: Pulling from library/nginx  
f56be85fc22e: Pull complete  
2ce963c369bc: Pull complete  
59b9d2200e63: Pull complete  
3e1e579c95fe: Pull complete  
547a97583f72: Pull complete  
1f21f983520d: Pull complete  
c23b4f8cf279: Pull complete  
Digest: sha256:02fffd439b71d9ea9408e449b568f65c0bbbb94bebd8750f1d80231ab6496008e
```

6-delete nginx:alpine

```
helmy@ubuntu:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
US            PORTS         NAMES
c4ffd9c494ac   nginx:alpine   "/docker-entrypoint...." About a minute ago Up A
bout a minute 80/tcp        xenodochial_cray
helmy@ubuntu:~$ docker stop c4ffd9c494ac
c4ffd9c494ac
helmy@ubuntu:~$ docker rm c4ffd9c494ac
c4ffd9c494ac
helmy@ubuntu:~$
```

7-delete redis image

```
helmy@ubuntu:~$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
node          node      bd472681863f   25 hours ago   187MB
alpine        latest    5e2b554c1c45   2 weeks ago    7.33MB
helloworled2  latest    0fdafaa6892e   2 weeks ago    7.33MB
<none>        <none>    5c89e3f72667   2 weeks ago    7.33MB
hello-world   latest    9c7a54a9a43c   2 weeks ago    13.3kB
nginx         latest    448a08f1d2f9   2 weeks ago    142MB
redis         latest    116cad43b6af    3 weeks ago    117MB
ubuntu        latest    3b418d7b466a   4 weeks ago    77.8MB
nginx         alpine    8e75cbc5b25c   7 weeks ago    41MB
helmy@ubuntu:~$ docker image rm --force redis
Untagged: redis:latest
Untagged: redis@sha256:ea30bef6a1424d032295b90db20a869fc8db76331091543b7a80175cede7d887
Deleted: sha256:116cad43b6aff97c73227088f04da7eaec57aeb40923fc8cc99043663207e944
helmy@ubuntu:~$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
node          node      bd472681863f   25 hours ago   187MB
helloworled2  latest    0fdafaa6892e   2 weeks ago    7.33MB
alpine        latest    5e2b554c1c45   2 weeks ago    7.33MB
<none>        <none>    5c89e3f72667   2 weeks ago    7.33MB
hello-world   latest    9c7a54a9a43c   2 weeks ago    13.3kB
nginx         latest    448a08f1d2f9   2 weeks ago    142MB
ubuntu        latest    3b418d7b466a   4 weeks ago    77.8MB
nginx         alpine    8e75cbc5b25c   7 weeks ago    41MB
helmy@ubuntu:~$
```

8-docker pull nginx:1.4alpine

```
helmy@ubuntu:~$ docker pull nginx:1.14-alpine
1.14-alpine: Pulling from library/nginx
bdf0201b3a05: Pull complete
3d0a573c81ed: Pull complete
8129faeb2eb6: Pull complete
3dc99f571daf: Pull complete
Digest: sha256:485b610fefec7ff6c463ced9623314a04ed67e3945b9c08d7e53a47f6d108dc7
Status: Downloaded newer image for nginx:1.14-alpine
docker.io/library/nginx:1.14-alpine
helmy@ubuntu:~$
```

9-Run a container with the nginx: alpine image and name it web

```
helmy@ubuntu:~$ docker run -d --name web nginx:alpine
docker: Error response from daemon: Conflict. The container name "/web" is already in use by container "30ac3ff7e58e1716a62e3dc799e8acdccf664d2c39655efe8bcc316170ce0994". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
helmy@ubuntu:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
30ac3ff7e58e	nginx:alpine	"/docker-entrypoint..."	57 seconds ago	Up 56 seconds
80/tcp	web			

10-delete all image

```
helmy@ubuntu:~$ docker image rm $(docker image ls -a -q)
Untagged: alpine:latest
Untagged: alpine@sha256:02bb6f428431fbc2809c5d1b41eab5a68350194fb508869a33cb1af4444c9b11
Deleted: sha256:5e2b554c1c45d22c9d1aa836828828e320a26011b76c08631ac896cbc3625e3e
Untagged: nginx:1.14-alpine
Untagged: nginx@sha256:485b610fefec7ff6c463ced9623314a04ed67e3945b9c08d7e53a47f6d108dc7
Deleted: sha256:8a2fb25a19f5dc1528b7a3fabe8b3145ff57fe10e4f1edac6c718a3cf4aa4b73
Deleted: sha256:f68a8bcb9dbd06e0d2750eabf63c45f51734a72831ed650d2349775865d5fc20
Deleted: sha256:cbf2c7789332fe231e8defa490527a7b2c3ae8589997ceee00895f3263f0a8cf
Deleted: sha256:894f3fad7e6ecd7f24e88340a44b7b73663a85c0eb7740e7ade169e9d8491a4c
Deleted: sha256:a464c54f93a9e88fc1d33df1e0e39cca427d60145a360962e8f19a1dbf900da9
Error response from daemon: conflict: unable to delete bd472681863f (must be forced) - image is being used by stopped container 3d3ff2afb575
Error response from daemon: conflict: unable to delete 5c89e3f72667 (must be forced) - image is being used by stopped container 8fc0589be442
Error response from daemon: conflict: unable to delete 0fdafaa6892e (must be forced) - image is being used by stopped container d60cb09fab3c
Error response from daemon: conflict: unable to delete 9c7a54a9a43c (must be forced) - image is being used by stopped container b656ef254a2a
Error response from daemon: conflict: unable to delete 448a08f1d2f9 (must be forced) - image is being used by stopped container 74c1c6c7889a
Error response from daemon: conflict: unable to delete 3b418d7b466a (must be forced) - image is being used by stopped container abd1872162c4
Error response from daemon: conflict: unable to delete 8e75cbc5b25c (cannot be forced) - image is being used by running container 30ac3ff7e58e
```