



Build

Build an image from the Dockerfile in the current directory and tag the image

```
docker build -t myimage:0.1 .
```

List all images that are locally stored with Docker

```
docker images
```

Delete an image from the local image store

```
docker rmi myimage:0.1
```



Share

Pull an image from a registry

```
docker pull myimage:0.1
```

Retag a local image

```
docker tag myimage:0.1 myrepo/myimage:1.0
```

Push an image to registry

```
docker push myrepo/myimage:1.0
```



Interact

Run a command in the container

```
docker exec -it myimage:0.1 whoami
```

Get's inside a container

```
docker exec -it myimage:0.1 bash
```

Save a running containers as an image

```
docker commit container_name myimage:0.2
```



Run

Run a container with name "web", expose port 8080 externally mapped to port 80 inside the container, from the Nginx version alpine image.

```
docker container run --name web -p 8080:80 nginx:alpine
```

Stop a running container through SIGTERM

```
docker container stop web
```

Stop a running container through SIGKILL

```
docker container kill web
```

List the running containers (add --all or -a to include stopped containers)

```
docker container ls
```

or

```
docker ps
```

Delete all running and stopped containers

```
docker container rm -f $(docker ps -aq)
```

List the networks

```
docker network ls
```



Glossary

Image - a read-only layer that is the base of your container. Might have a parent image

Container - a runnable instance of the image

Registry/Hub - central place where images live

Docker Machine - a VM to run Docker (Linux does this natively)

Dockerfile - Document that executed in order to build a Docker image

Layer - a set of modification to the image, represented by an instruction in the Dockerfile

Docker Compose - a utility to run multiple containers as a system