## ps

List all containers that have been run on this machine, including those that have been exited on the host

docker ps -a

## version and other info

Display docker version

docker -v

Display information about various aspects of docker

docker version

List system-wide information

docker info

Lists containers running

storage driver

execution driver

## pull

Pull images from docker hub and store them locally

Pull latest ubuntu image

docker pull ubuntu

Pull all ubuntu imaes

docker pull -a ubuntu

## port

lists port mappings from container to host

## images

information about available local images

docker images ubuntu

displays all available local images

image-id specifies the unique image id.

Several images may have the same id if tagged under different names

Each image may have the same tag

Contain all the data and metadata required to start a container

images are stored on /var/lib/docker/<storage driver>

container os images tend to have the bare-minimum packages installed

it’s up to you to add stuff you want

doesn’t even have man

The latest tag is by default called latest

## start

Starts an existing container

## stop

Stops an existing container

docker stop n1 n2 n3

## rm

Removes an existing container

docker rm n1 n2 n3

## attach

Open an interactive shell against a running container

## run

Creates a new container

Start a new container with interactive support based on ubuntu kernel

docker run -it ubuntu /bin/bash

start new container and make it interactive and give it a tty base container on ubuntu image, in container, run bash process

places you in the ps1 of the container

root@b7724239484 <= unique id of container

Start a new container with interactive support based on centos kernel

docker run -it centos /bin/bash

/bin/bash is just something to run in the container.

Could be anything else installed in the container

Docker unpacks an image, stacks the layers, then starts it

Specify -it flags to provide a means of attaching

Exit a container without killing it by doing Ctrl + P + Q

-v command mounts a local folder to a mount point

docker run --name n1 -v $PWD/scripts:/scripts -d tobert/cassandra

Obtain id of new docker instance

ID=$(docker run --name n1 -d tobert/cassandra)

### flags

-d run container in background in detached mode

-i

-t

--name logical name for a docker container

## exec

run a command in a running docker container

docker exec -it n1 /bin/bash

## inspect

docker inspect -f ‘{{ .NetworkSettings.IPAddress }}’ n1

IP=$(docker inspect -f '{{ .NetworkSettings.IPAddress }}' $ID)

docker run --name n2 -d tobert/cassandra -seeds $IP

## commit

creates an image from the saved state of an existing image

## build

build docker images from scratch