A build file

docker build

builds an image from a docker file and a context

Instructions for building an image

Contains instructions for building an image

build context

files in the same location and underneath the location of the docker file

When a docker client is on a separate host as a docker daemon, having a large build context could be a problem

Location

Any files in same directory or underneath is included in the build

Can be placed anywhere

Putting in root dir would include all files on your host filesystem

Comments start with #

## Process

docker build -t hello-world:1.1 .

tag is hello-world:1.1

docker file is in current directory

docker history [imageid]

docker run [imageid]

if no version is provided, the image marked latest will be used

## Instructions

FROM

First instruction in a Dockerfile

scratch means there’s no base image

MAINTAINER

just meta-data

RUN

For example

RUN apt-get update

after every run command, a new image layer is committed

CMD

executed whenever the image is launched

ADD

TODO

Adds files to images at a particular location in the image filesystem

## Terms

Image layer

An incremental change to an image

A temporary image

Before each command, the daemon spins up a new container

After each command, the daemon commits a new temporary image and removes the previous container

??? What is the side-effect of having so many image layers???

docker hub

public repo of docker images