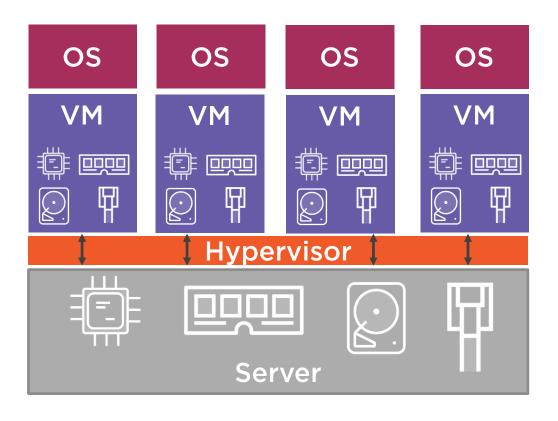
Working with Containers



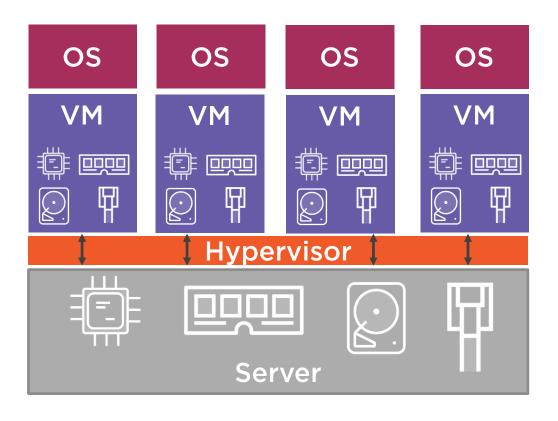
Nigel Poulton

@nigelpoulton www.nigelpoulton.com





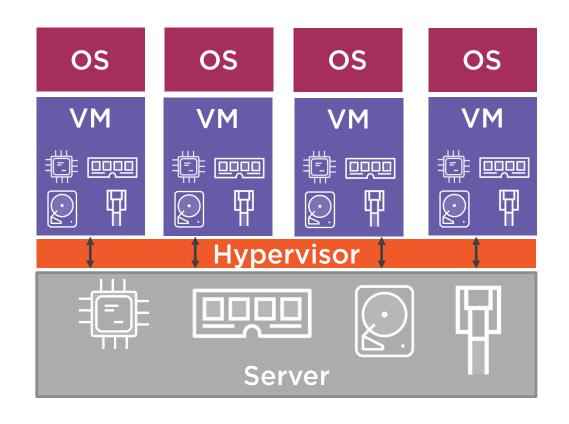


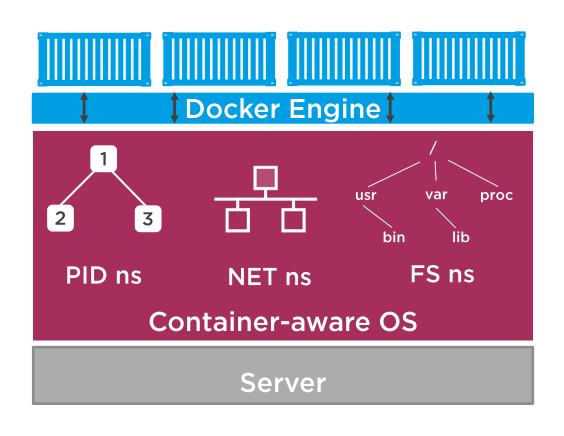




VM Model

Container Model



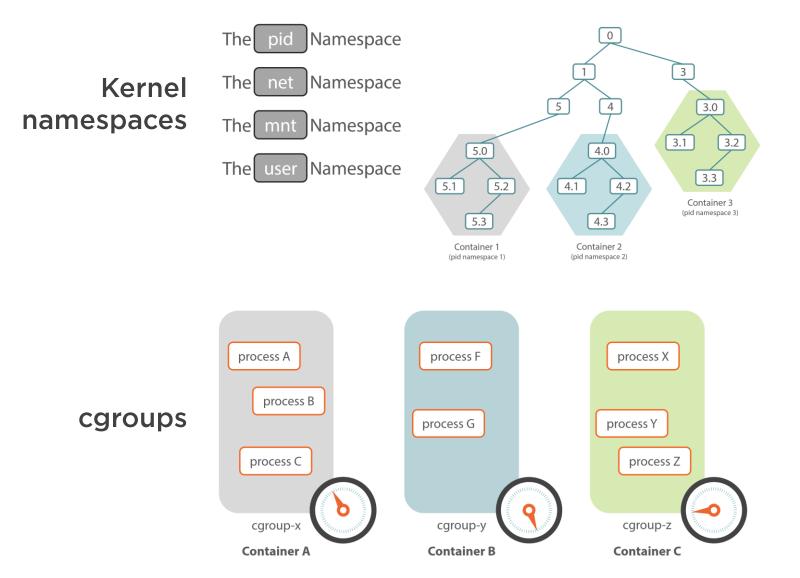




Objects in these diagrams are <u>not</u> drawn to scale



Docker Deep Dive course for more detail...



Capabilities

CAP_AUDIT_CONTROL

CAP_CHOWN

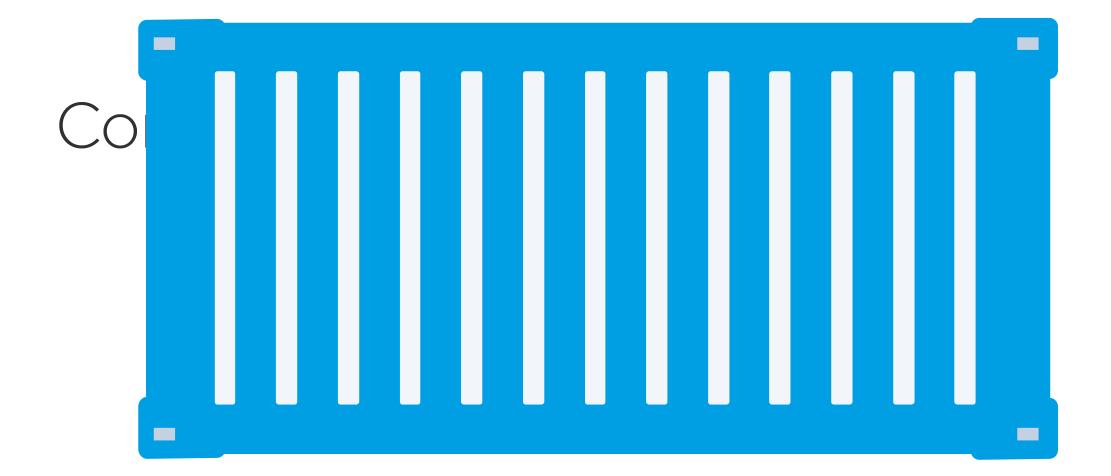
CAP_DAC_OVERRIDE

CAP_KILL

CAP_NET_BIND_SERVICE

CAP_SETUID

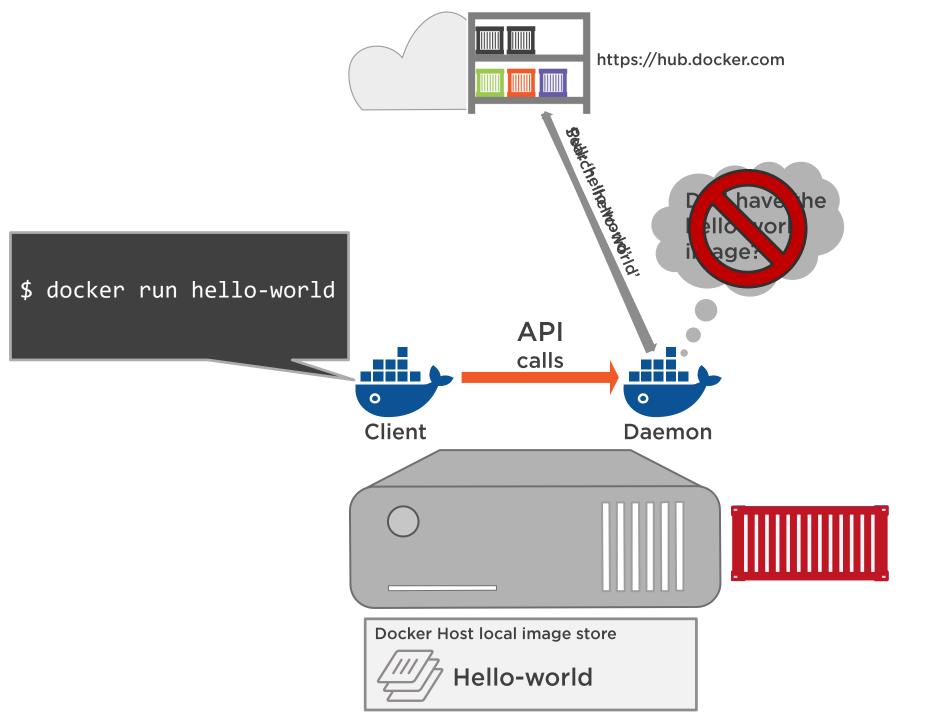




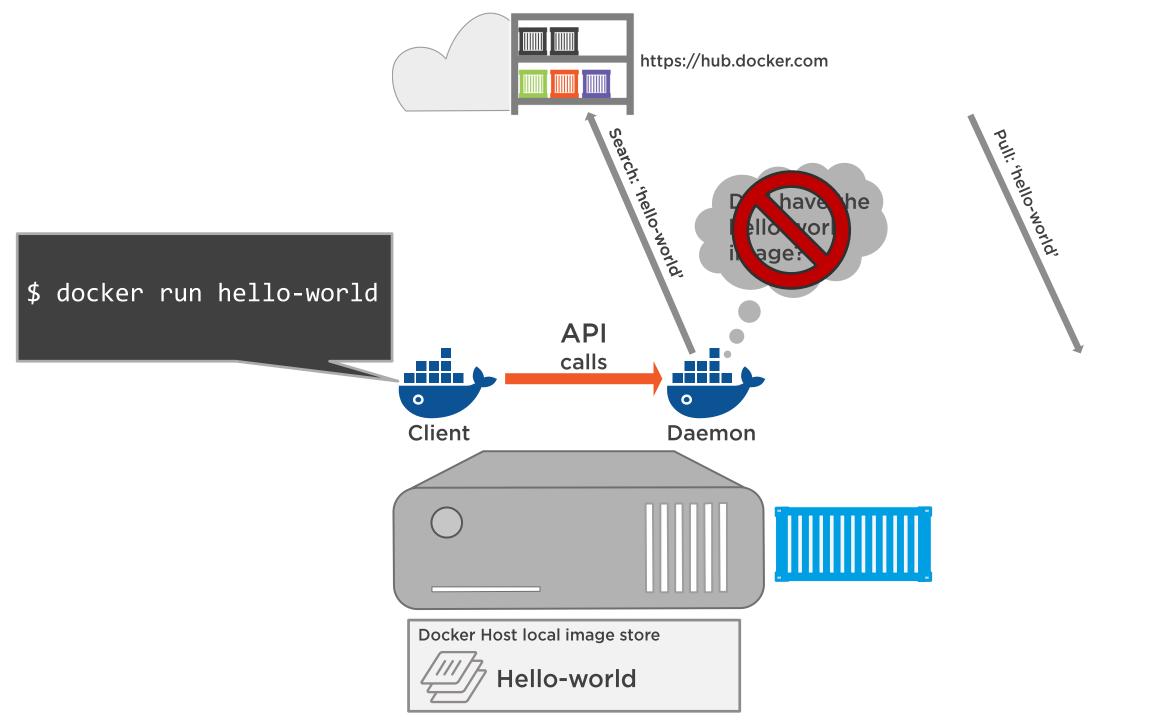


Quick recap...







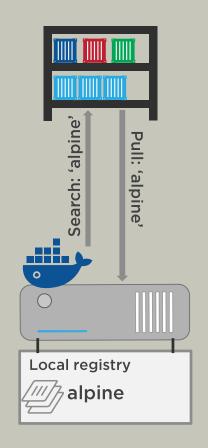


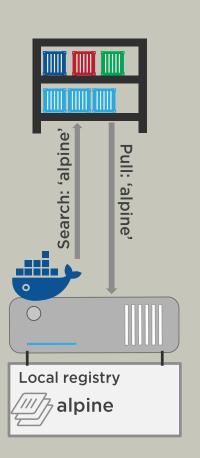


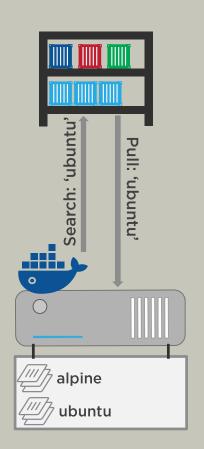
Contamages ~ 3 topped containers

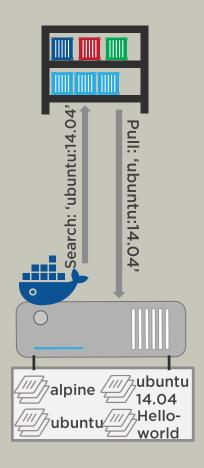
Containers ~ Running Images















Container Lifecycle



"To persist or not to persist."

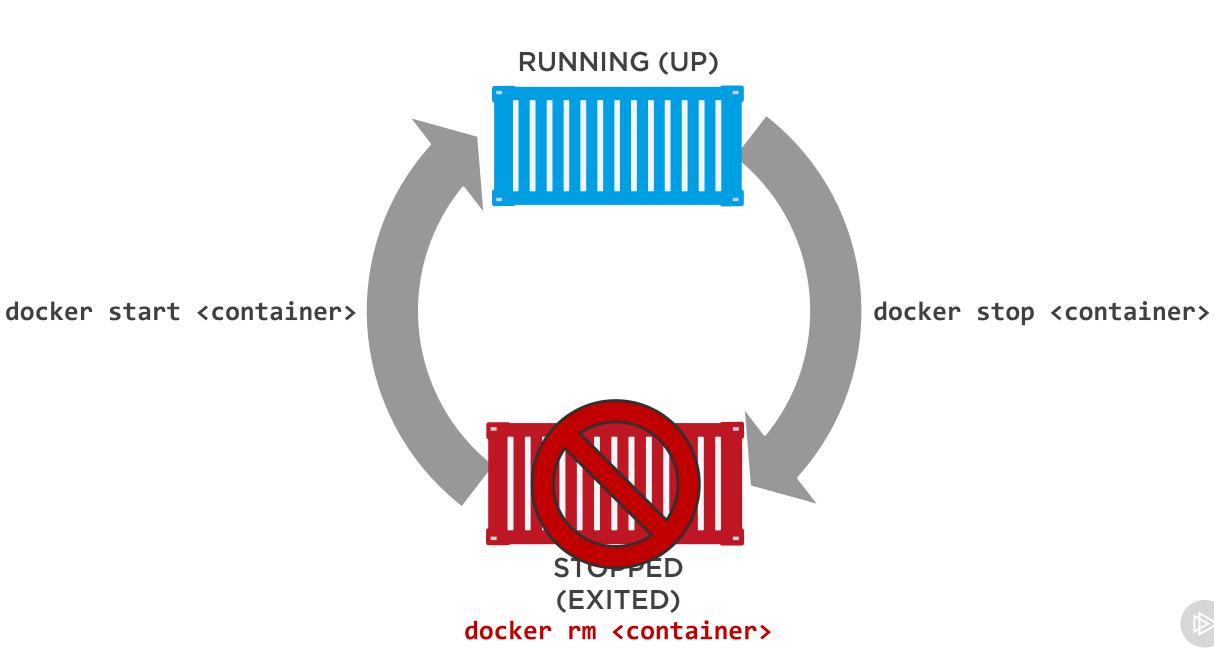
William Shakespeare

tosh

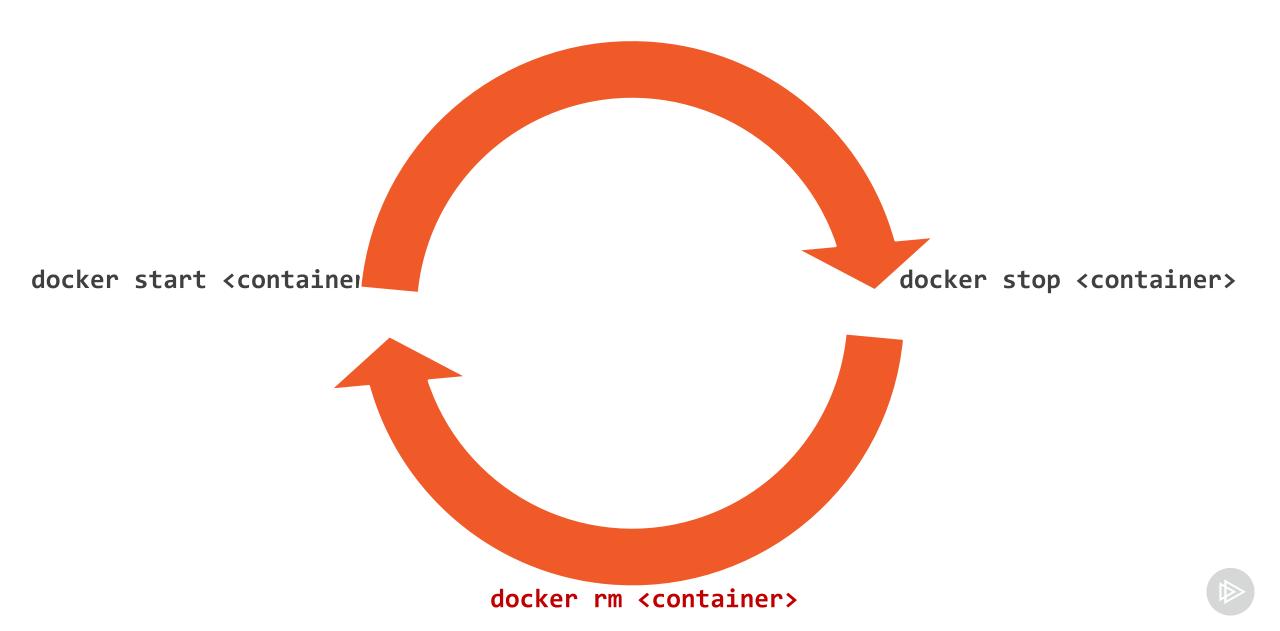
/tps//
noun BRITISH informal

rubbish; nonesense

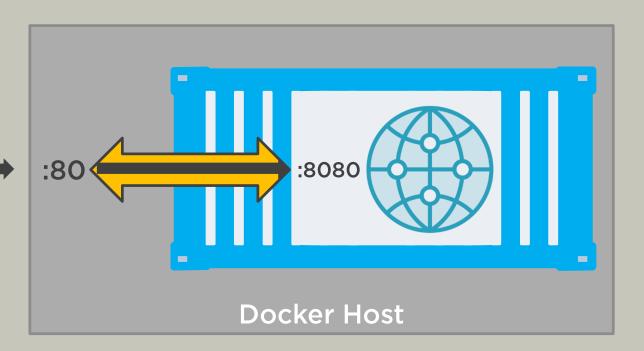




Container lifecycle ~ VM lifecycle







Top Level Images *Official*

(stored in the root of Hub)

- nginx
- busybox
- ubuntu
- redis
- alpine
- ..

Second Level Images

(stored in their own namespace)

- nigelpoulton/pluralsight-docker-ci
- dockercloud/haproxy
- phusion/baseimage
- mesoscloud/mesos-master
- cockpit/ws



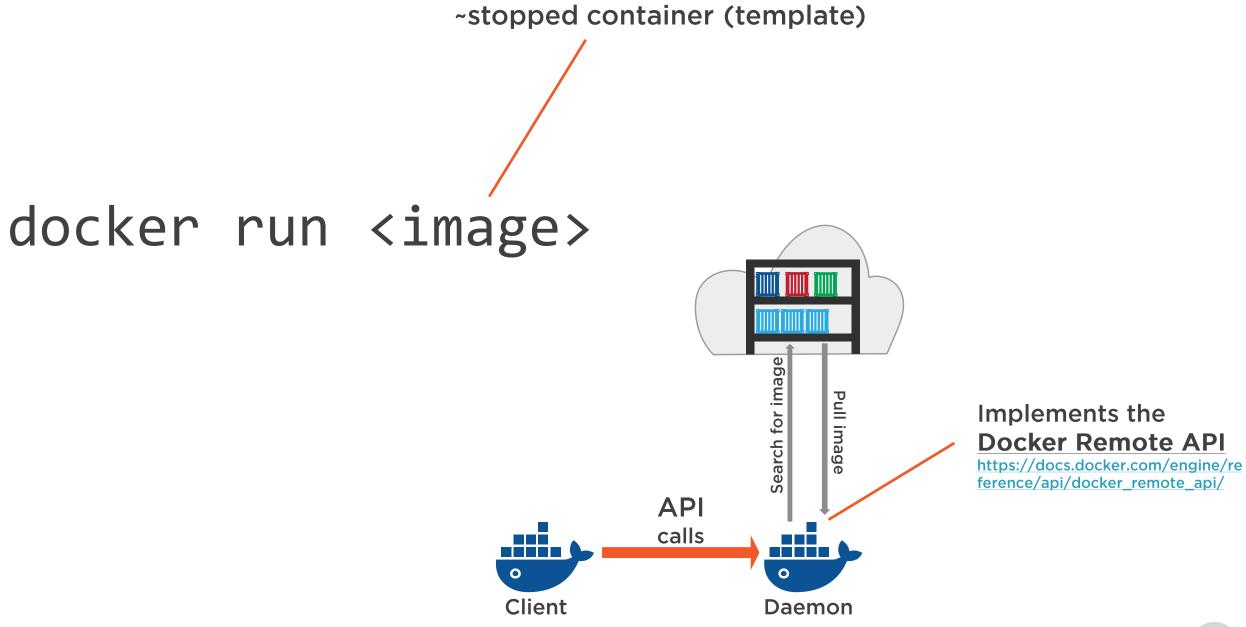
None of the above images and repos are endorsed or recommended by this course. They are just shown as examples of second-level repos



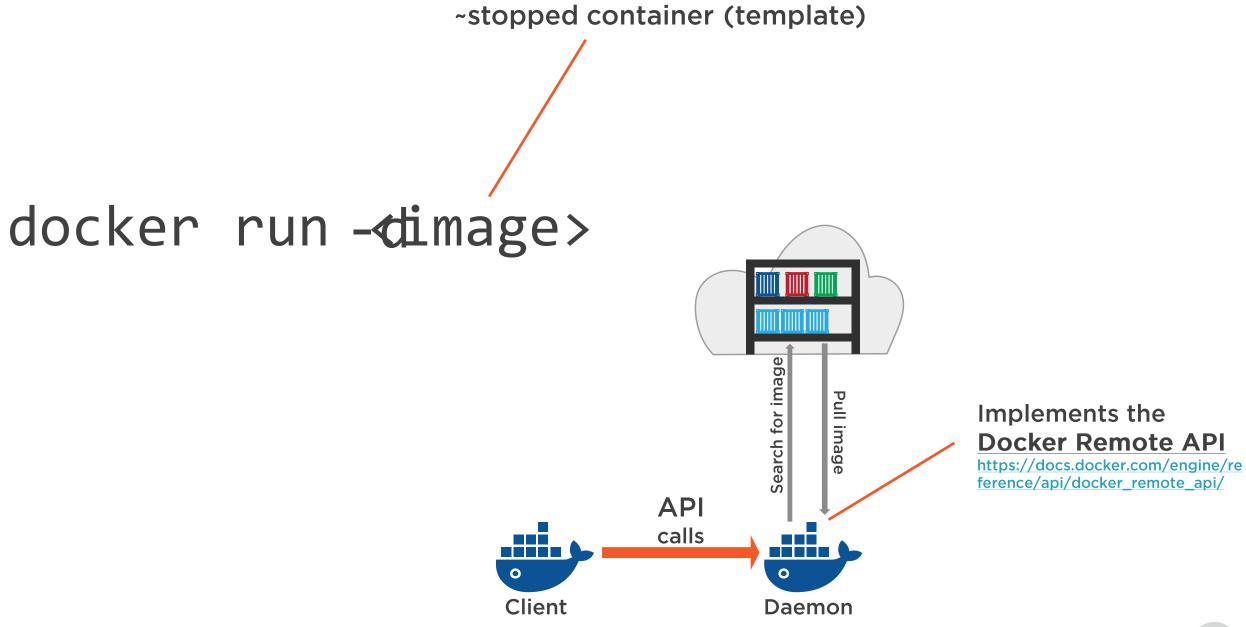
The other processes seen (ps and top) are temporary processes that Bash created (forked) when I ran those respective commands

Recap

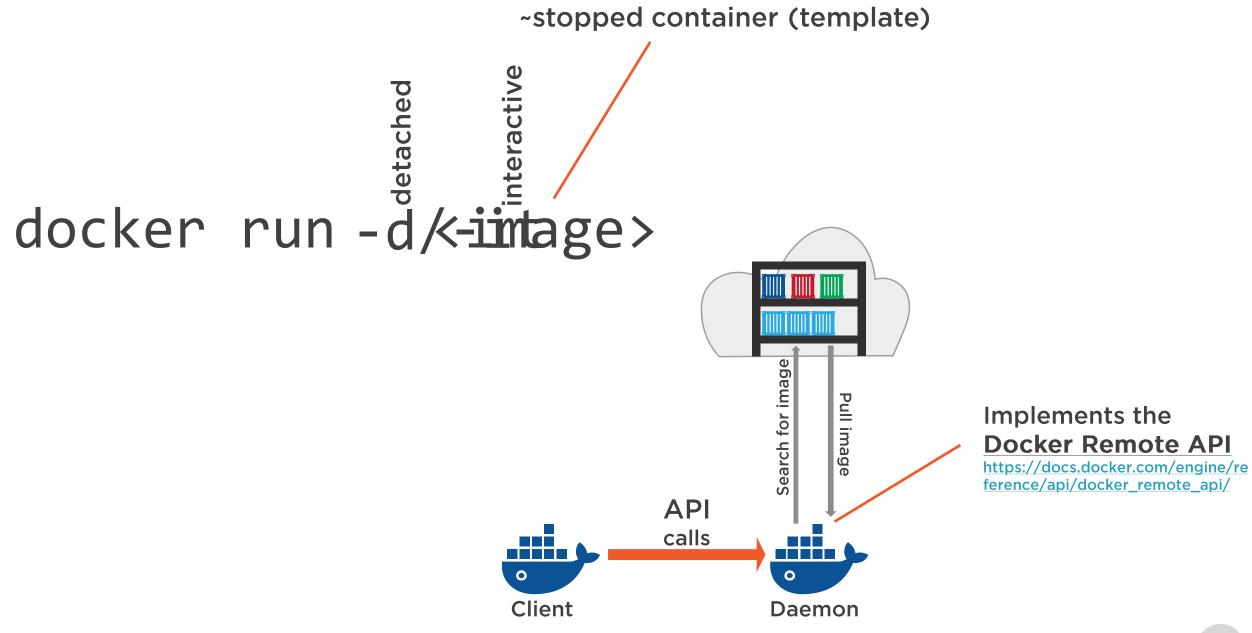














Starts a new container

docker pull docker run docker images docker rmi

Copies images to the Docker Host

Lists images on the Docker Host

Removes images from the Docker Host

docker ps docker stop docker rm

Lists running containers

Stops running containers

Removes (deletes) stopped containers



Coming up next....

Native Docker clustering and orchestration

