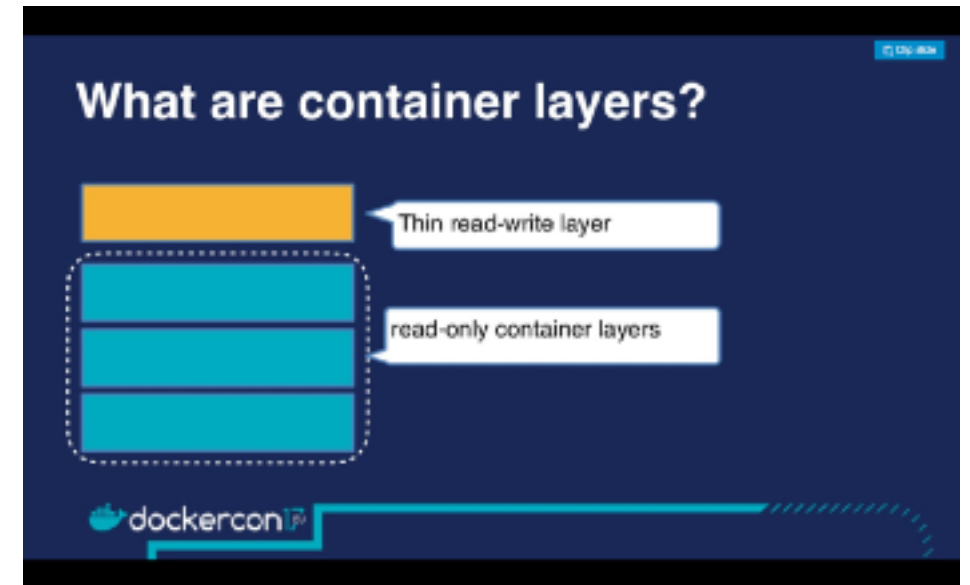


docker image management

What is it?

- a snapshot of a file system
- layered, so generally maintains a list of FS changes
kind of like Git - at the expense of space
- only top level is R/W
- images can be tagged and stored locally in the image index, and remotely in a registry
- provides root access by default



When managed individually, images are generally created by this process:

- “**docker pull <user>/<image>:<tag>**” - starting with a OS base image (eg. library/busybox:latest)
- “**docker run -d**” or* “**docker create**” to apply modifications
- “**docker diff**” to inspect changes
- “**docker commit**” to save the changes to a new image name
- “**docker push**” to push the changes to a repo

* the difference between run (-d is detached) and create is that “create” never starts the container

manual image modification

```
start a registry -> docker run -d -p 5000:5000 registry:2
pull latest from docker hub -> docker pull busybox:latest
make a new tag for our repo -> docker tag busybox:latest localhost:5000/busybox
push the copied image to repo -> docker push localhost:5000/busybox
remove the busy box image -> docker rmi busybox:latest
test pulling the new image -> docker pull localhost:5000/busybox:latest
run our image with a name -> docker run --name mylinux -it localhost:5000/busybox:latest
    modify it -> touch helloworld.txt

list of running containers -> 2> docker ps
differences to base image -> 2> docker diff mylinux
commit changes to a new image -> 2> docker commit mylinux localhost:5000/mylinux
push them to the repo -> 2> docker push localhost:5000/mylinux
remove the old container -> 2> docker rm -f mylinux
remove the new image -> 2> docker rmi localhost:5000/busybox:latest
test pulling the new image -> 2> docker pull localhost:5000/mylinux:latest
run our image with a name -> 2> docker run --name mylinux2 -it localhost:5000/mylinux
check helloworld.txt is there -> 2> ls
```