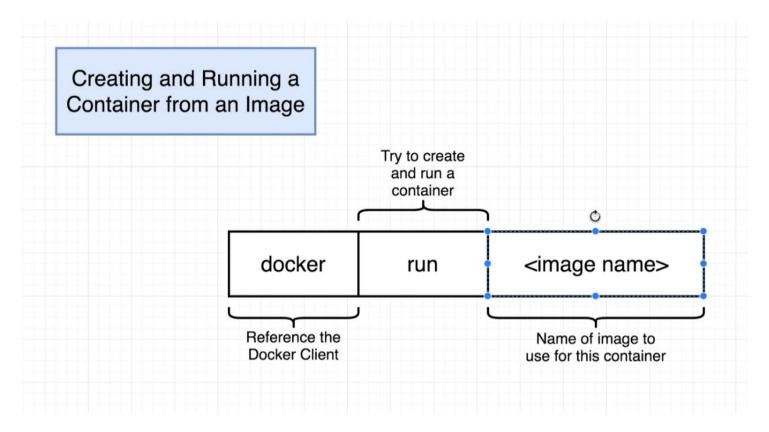
Messing up with Container

Rupesh Panwar

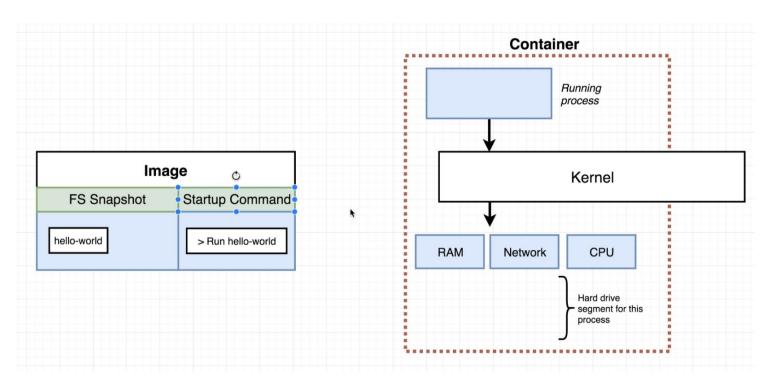
Date: 03-Aug-21

Agenda

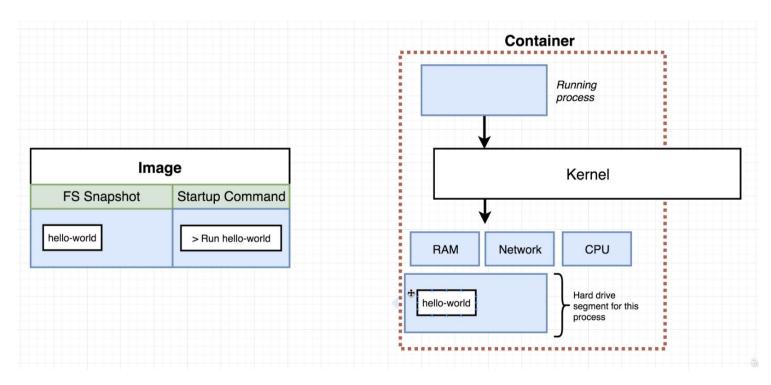
Docker run Override default commands Listing running containers Container lifecycle Restarting a stopped container Removing a stopped container Retrieving log output Stopping a container Multi-command container Executing command in running container Purpose of "-it" flag Getting a command prompt in a container Starting with a shell Container isolation



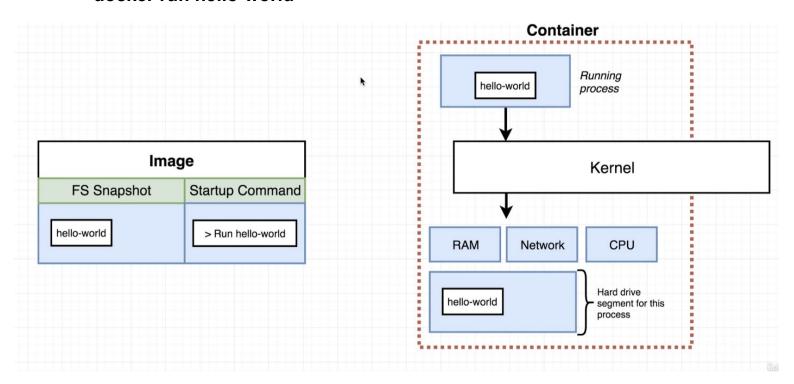
> docker run hello-world

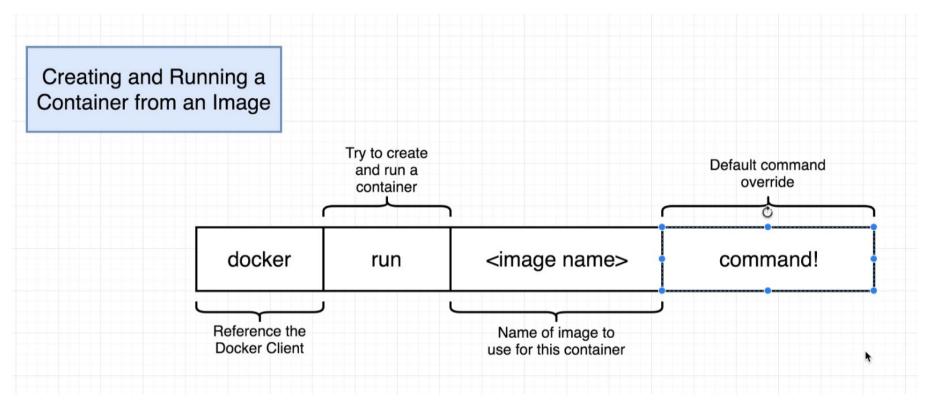


> docker run hello-world



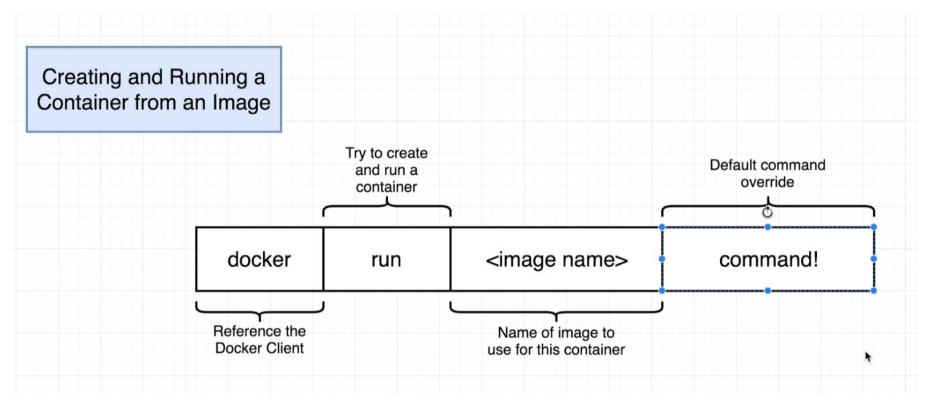
> docker run hello-world





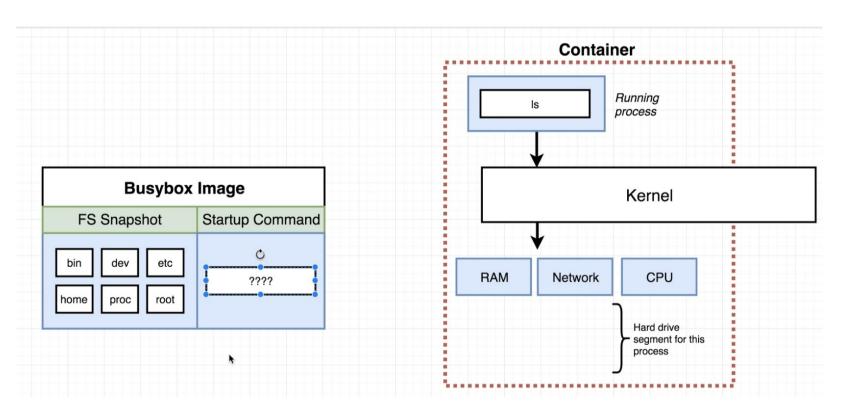
> docker run busybox echo there

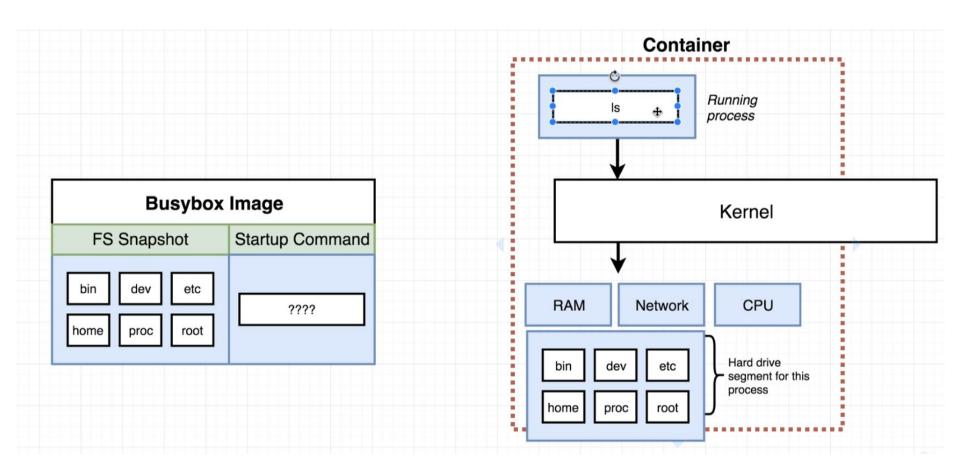
> docker run busybox Is



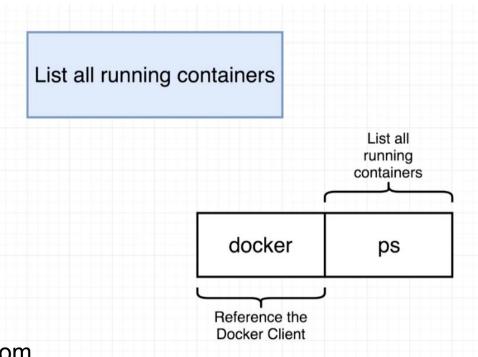
> docker run busybox echo there

> docker run busybox Is



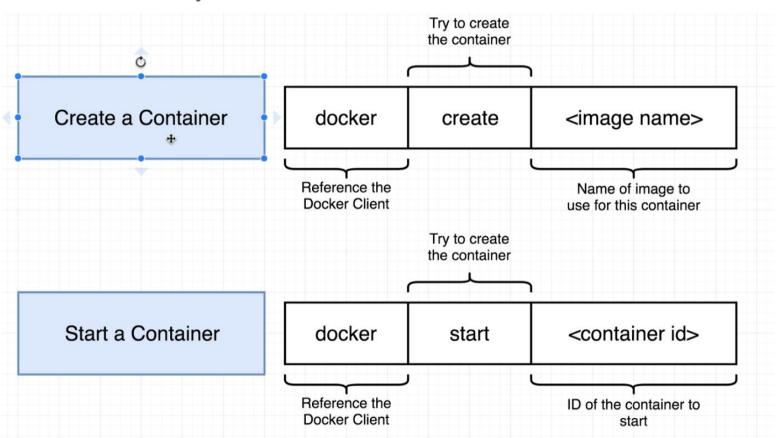


3. Listing running container



- > docker run busybox ping google.com
- > docker ps
- > docker ps -a

Containers Lifecycle



Restarting a stopped container

- > docker run busybox echo hi there
- > docker ps -a
- # To restart
- > docker start -a container-id
- # Can't override the default behavior of a container
- > docker run busybox echo hi there
- > docker ps -a
- > docker start -a container-id echo hi there

Removing a stopped container

- > docker ps -a
- # To remove
- > docker system prune

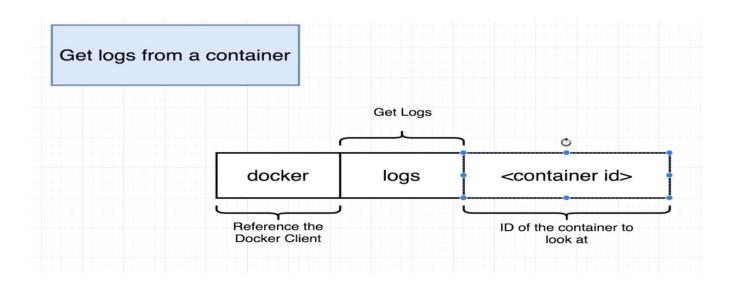
WARNING! This will remove:

- all stopped containers
- all networks not used by at least one container
- all dangling images
- all dangling build cache

Are you sure you want to continue? [y/N]

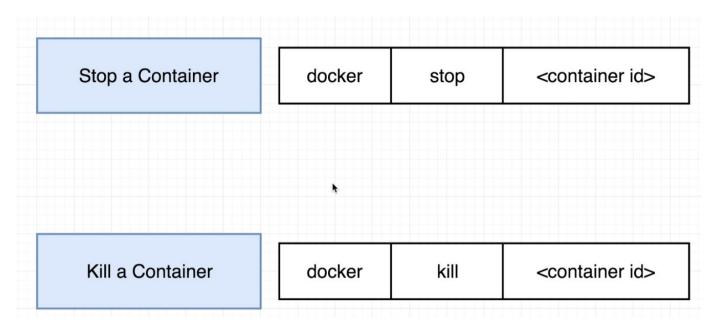
Retrieving logs output

- > docker create busybox echo hi there
- > docker start container-id

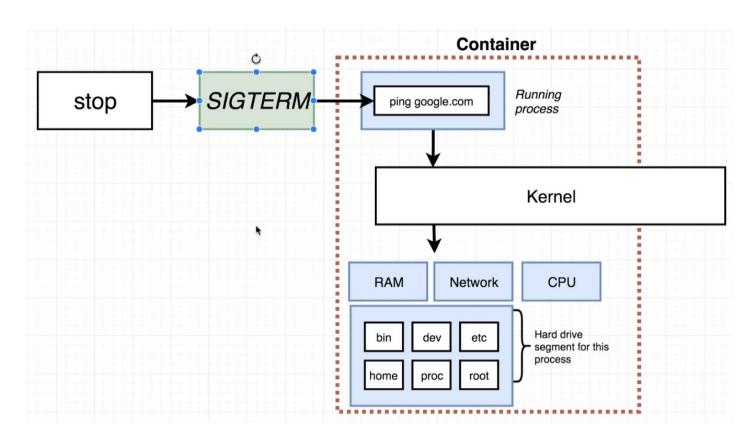


Stopping a container

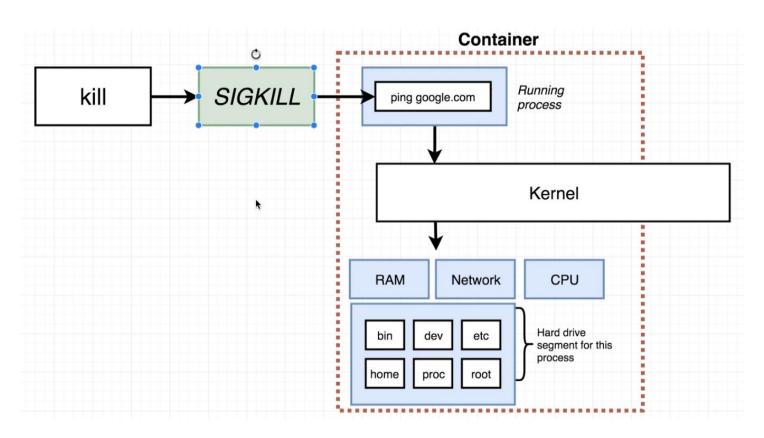
- > docker create busybox ping google.com
- > docker start container-id
- > docker logs container-id
- > docker ps



Stopping a container

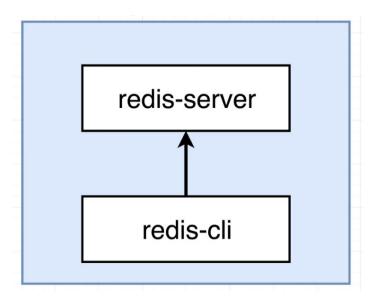


Stopping a container



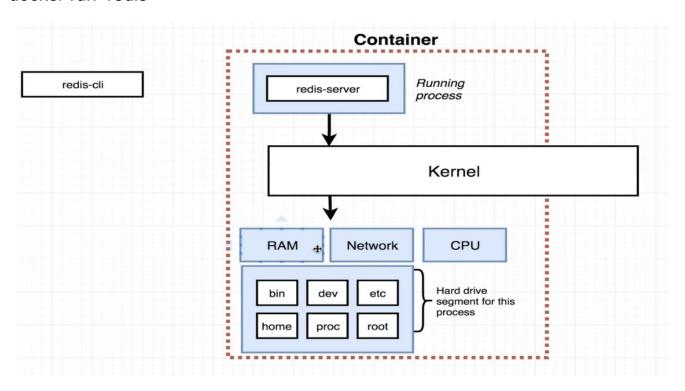
Multi-command container

- > docker run redis
- # to interact with redis
- > redis-cli



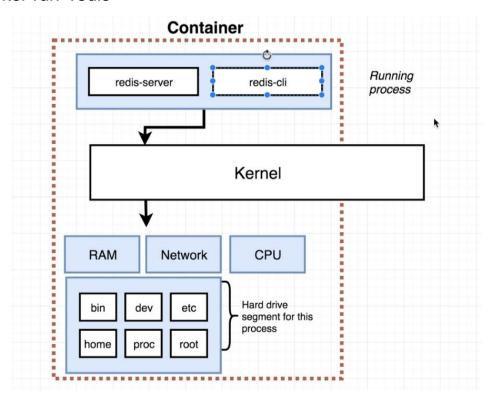
Multi-command container

> docker run redis

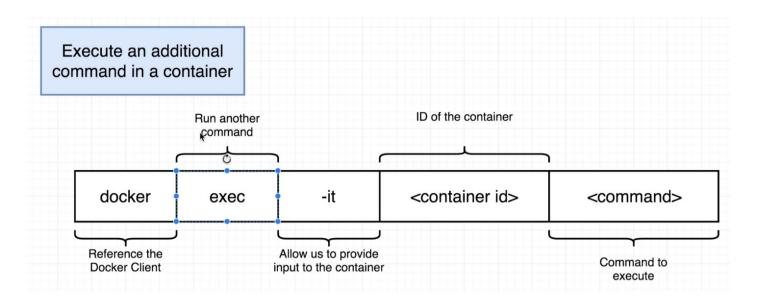


Multi-command container

> docker run redis

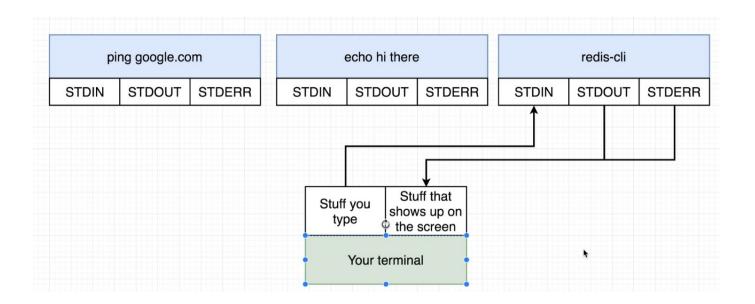


Executing command in running container



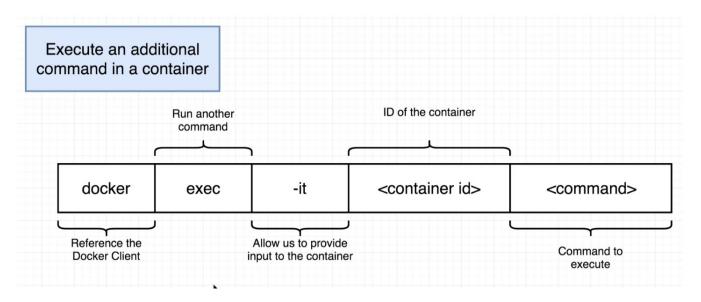
- > docker ps # get container-id
- > docker exec -it container-id redis-cli

Purpose of "-it" flag



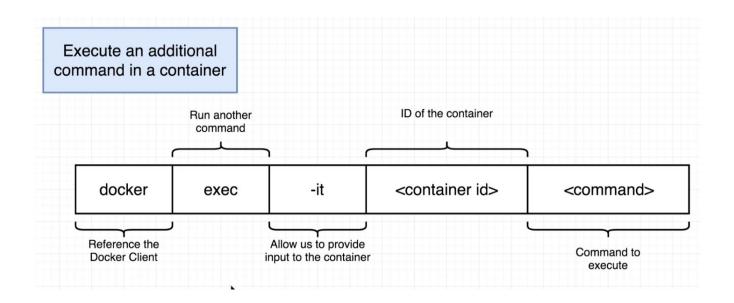
> docker exec -it container-id redis-cli

Getting a command prompt in a container

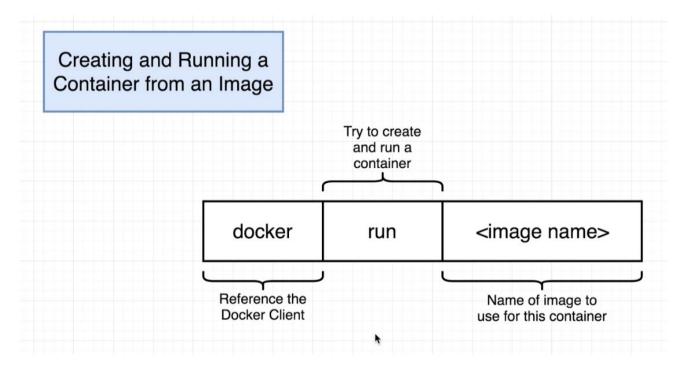


- > docker ps # grab container id
- > docker exec -it container-id sh
- > cd /
- > Is
- > echo hi there
- > redis-cli

Starting with a shell



Starting with a shell



> docker run -it busybox sh

/ # ls

/# echo hi there

Container isolation

- > docker run -it busybox sh
- > ls
- # Another terminal
- > docker run -it busybox sh
- > touch hithere
- > ls
- > docker ps