GLOSSARY

Layer

A set of read-only files to provision the system.

Image

A read-only layer that is the base of your container. Might have a parent image.

Container

A runnable instance of the image.

Registery / Hub

Central place where images live.

Docker machine

A VM to run Docker containers (Linux does this natively).

Docker compose

A utility to run multiple containers as a system.

USEFUL ONE-LINERS

Download an image

docker pull image name

Start and stop the container

docker [start|stop] container name

Create and start container, run command
docker run -ti --name container_name
 image name command

Create and start container, run command, destroy container

docker run --rm -ti image_name command

Example filesystem and port mappings docker run -it --rm -p 8080:8080 -v /path/to/agent.jar:/agent.jar -e JAVA_OPTS="-javaagent:/agent.jar" tomcat:8.0.29-jre8

DOCKER CLEANUP COMMANDS

Kill all running containers

docker kill \$(docker ps -q)

Delete dangling images

docker rmi \$(docker images -q -f
 dangling=true)

Remove all stopped containers

docker rm \$(docker ps -a -q)

DOCKER MACHINE COMMANDS

Use docker-machine to run the containers

Start a machine

docker-machine start machine_name

Configure docker to use a specific machine

eval "\$(decker-machine env machine_name)"

DOCKER COMPOSE SYNTAX

docker-compose.yml file example

version: "2"

web:

container_name: "web"

image: java:8 # image name

command to run

command: java -jar /app/app.jar
ports: # map ports to the host

- "4567:4567"

volumes: # map filesystem to the host

- ./myapp.jar:/app/app.jar

mongo: # container name
 image: mongo # image name

Create and start containers

docker-compose up

INTERACTING WITH A CONTAINER

Run a command in the container

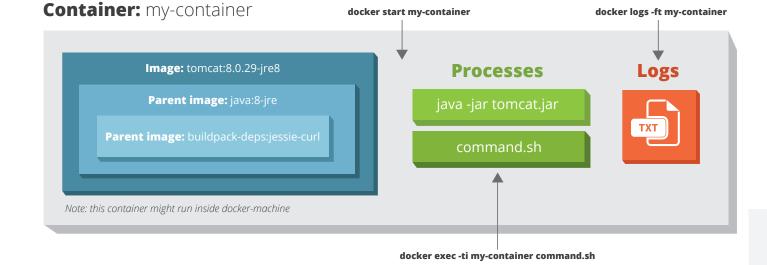
docker exec -ti container name command.sh

Follow the container logs

docker logs -ft container name

Save a running container as an image

docker commit -m "commit message" -a "author"
 container name username/image name:tag



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