



# **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)

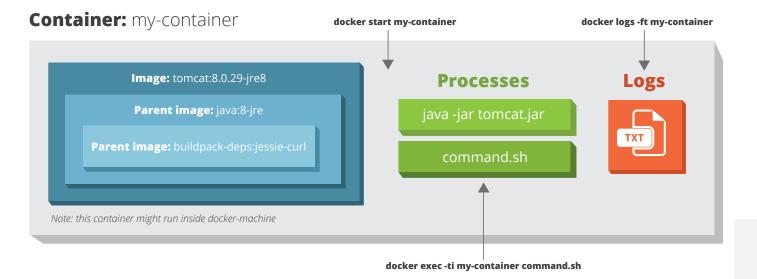
### DOCKER MACHINE COMMANDS

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" services: 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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