#### 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

**Registry / 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

Starta machine docker-machine\_name

Configure docker to use a specific machine eval "\$ (docker-machine env machine name)"

#### Docker compose syntax

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

