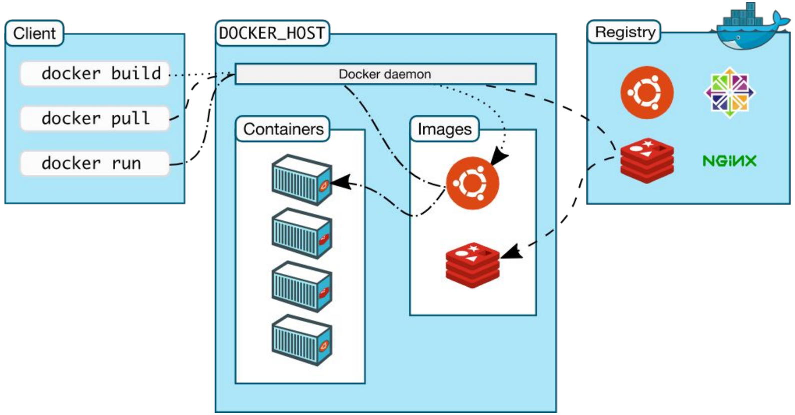
docker Cheat Sheet

ThoughtWorks®



Dockerfile

```
FROM openjdk:alpine    // image to build from
// copy file(s) from host to image
[ADD/COPY] /src/path/from/host /dest/path/to/image
// executes command(s) as new layer, used to install softwares. use a \
(backslash) to continue onto the next line
RUN apt-get install python3 \
      git
EXPOSE 8080 9009    // expose ports from container
// configures a container that runs as an executable, main process start
ENTRYPOINT ["executable", "param1", "param2", ...]
```

Docker commands

```
docker pull <image_name>  // download an image
docker images  // list all images
docker rmi $(docker images -q -f "dangling=true") //remove
all unused images

// build an image from the Dockerfile
docker build -t <namespace>/<app-name>:<version> .

// create and start container, run command
docker run
   --name <web>  // name the container
   -p 5000:80  // expose port 5000 externally and map to port 80
   -v ~/dev:/code  //create a host mapped volume inside the container
   alpine:3.6  // the image from which the container is instantiated
   /bin/sh  // the command to run inside the container

docker [start|stop] <container>  // start and stop the container
docker ps // list the running containers
docker rm -f $(docker ps -aq) // delete all running and stopped
containers
docker exec -it <web> bash // create a new bash process inside the
container and connect it to the terminal
docker logs -f --tail 100 <web> // print & follow container's logs
```