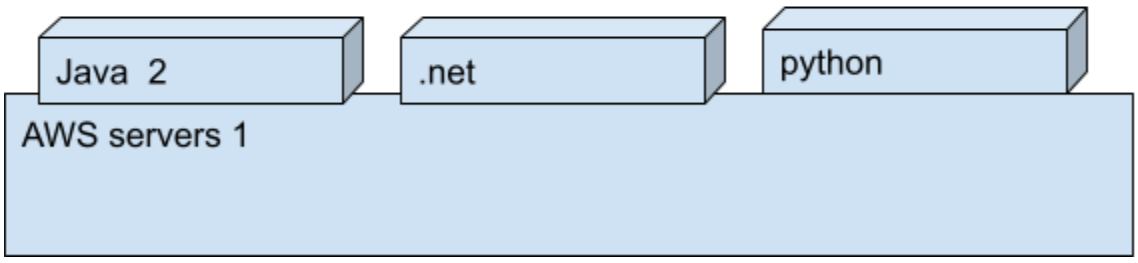
With containers , without mix

1) Java
2) .net
3) python

1 time

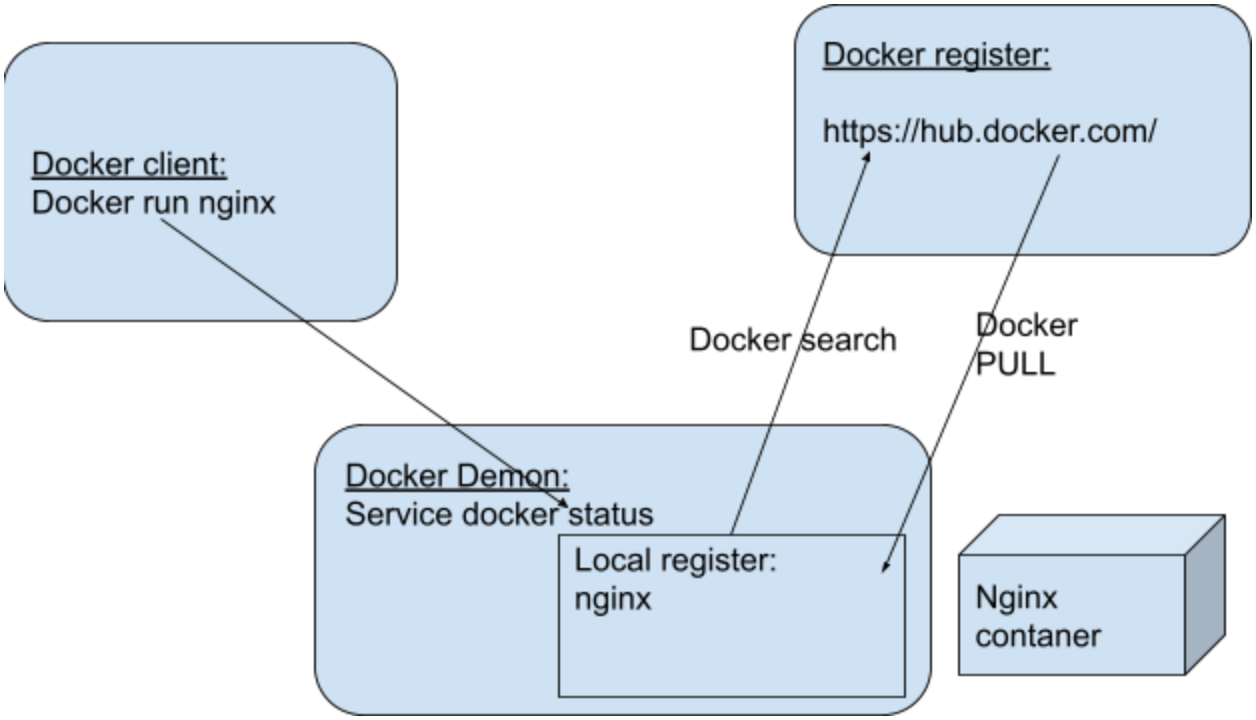


 # docker --version
 # docker ps
 # docker ps -a
 # docker images
 # docker run
 # docker stop <container id / container name>
 # docker start <container id / container name>

 # docker rm <container id / container name> -f
 # docker rmi <image id / image name> -f
 # docker ps -a -q
 # docker images -q
 # docker rm $(docker ps -a -q) -f
 # docker rmi $(docker images -q)
 # docker inspect <container id / container name>
 # docker exec -it myc1 /bin/bash

 # docker search <image name>
 # docker pull <image name>
 # docker run = search image + pull image +create container

Docker ART:



 # docker run --name myc1 -d -p 8081:8080 jenkins

Docker Modes:

1) **Attach mode : without -d**

After create docker container , container attach and run with terminal

Exp: docker run nginx

2) **Detach mode: with -d**

After create docker container , container detach from terminal and running in background

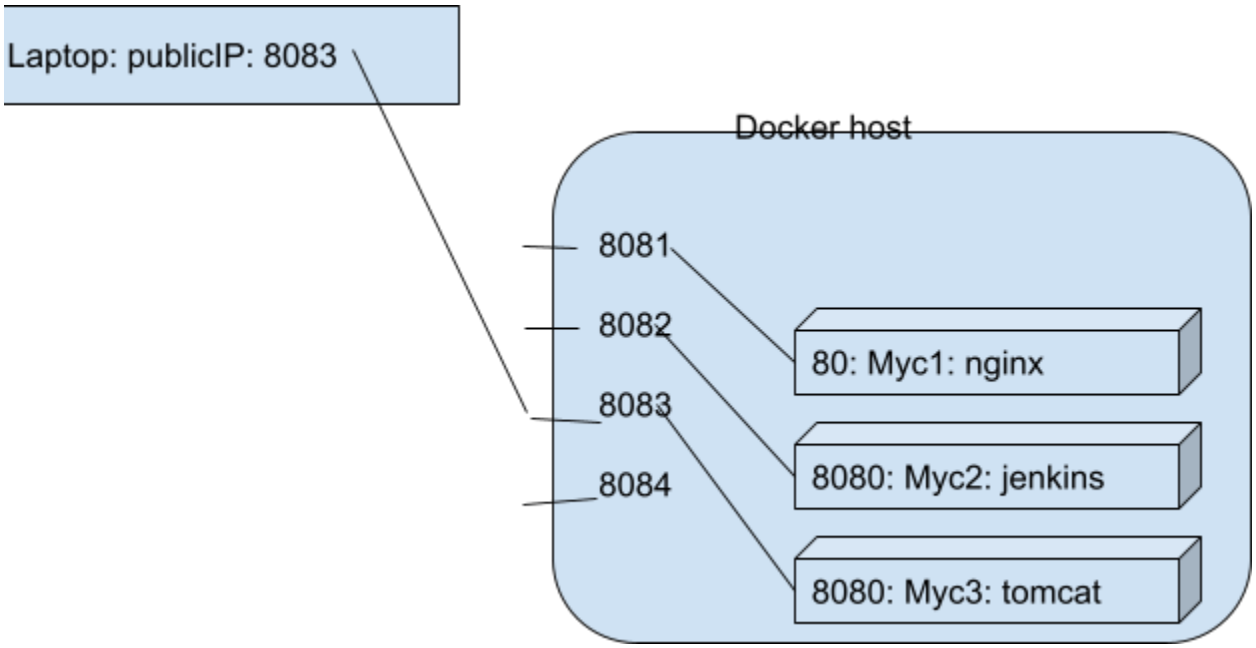
Exp: docker run -d nginx

3) **Interactive mode: -it**

After creating a docker container , we can get into the container with interactive (-it).

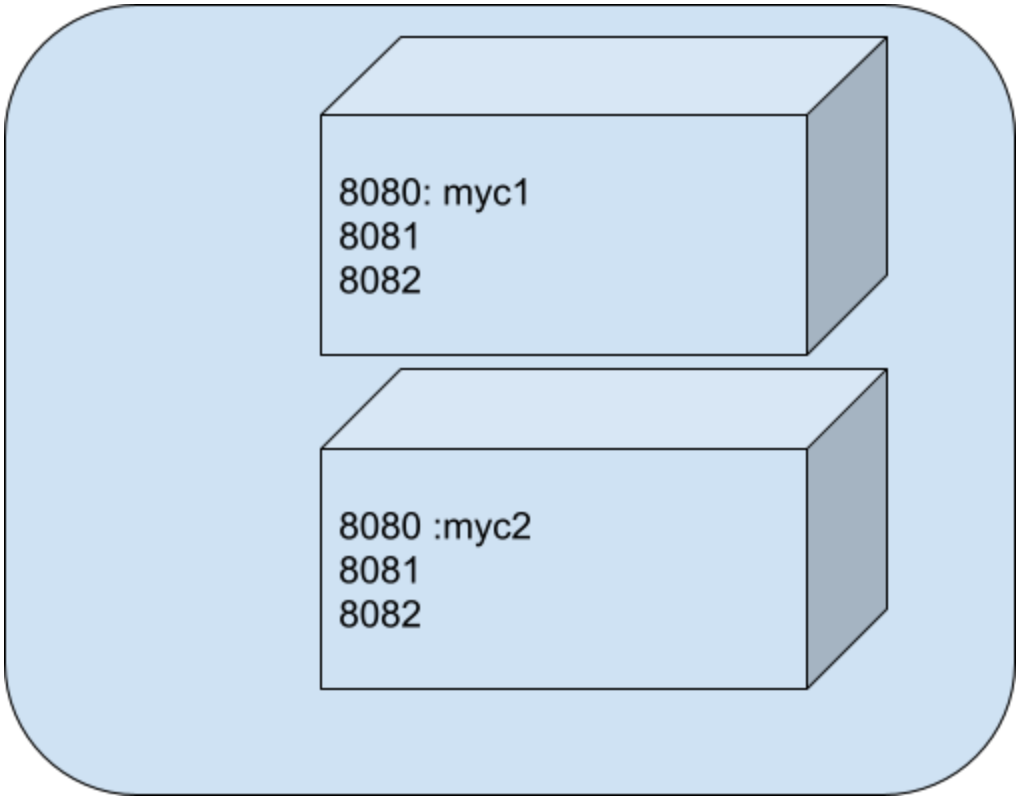
Exp: docker exec -it myc1 /bin/bash

Port forwarding: -p



-p 8081:80

Host : Guest



How does the docker container work?

1) Create Dockerfile with base image

```
# vi Dockerfile
FROM ubuntu: 14.04
MAINTAINER  maha65iac@gmail.com
RUN     apt-get update
RUN    apt-get install apache2 -y
ENTRYPOINT   [“ping” ]
CMD  [ “google.com” ]


:wq!
```

2) Build docker image

```
# docker build  -t  myimage:1 .
```

3) Create Container

```
# docker run -d myimage:1
```

Note :

- CMD command execute while create a container
- The container is in running state , until completion of CMD command execution.
- We can replace CMD common in run time