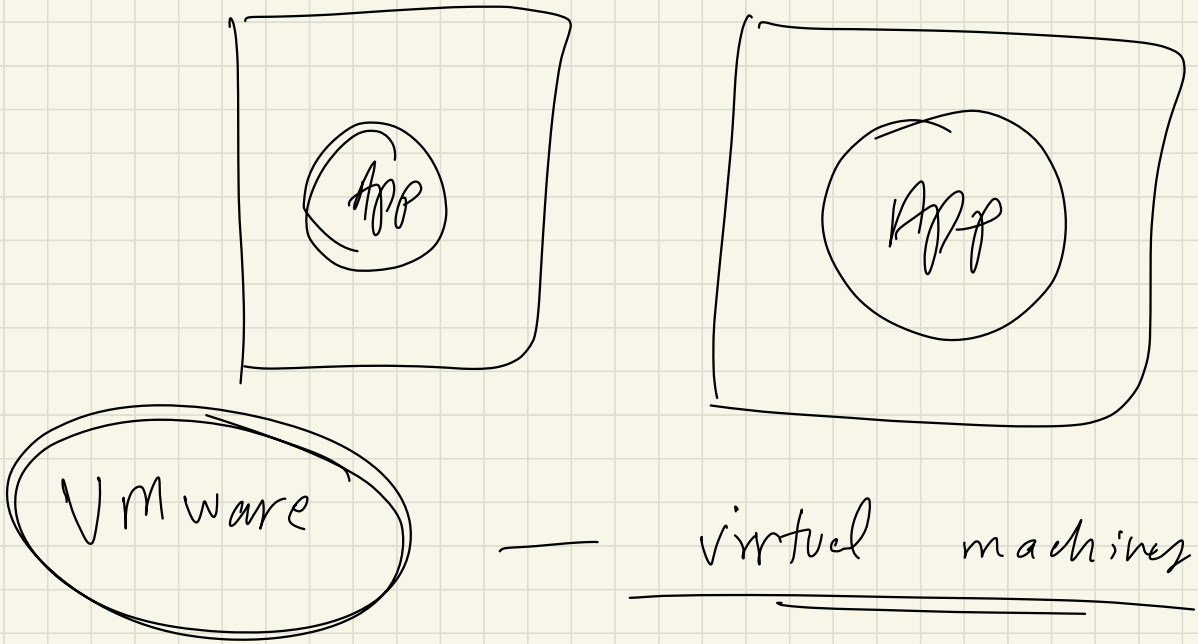
One application on one server.



— virtual machines.

Containers

Windows : Docker Desktop + WSL2

Mac : VMs & Docker Desktop

Linux : As it is

Docker- It is tool which creates container to run our app in our machine in an isolaed environment

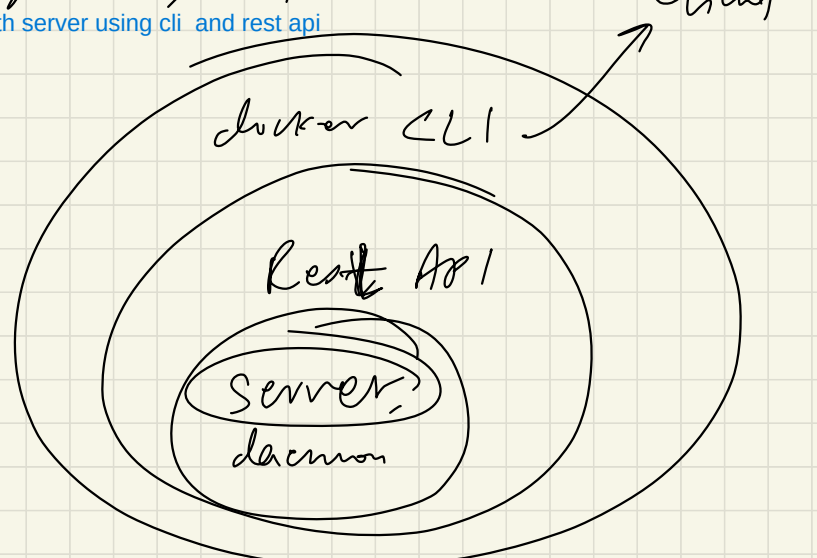
1 Runtime Runtime allows us to start and stop containers.

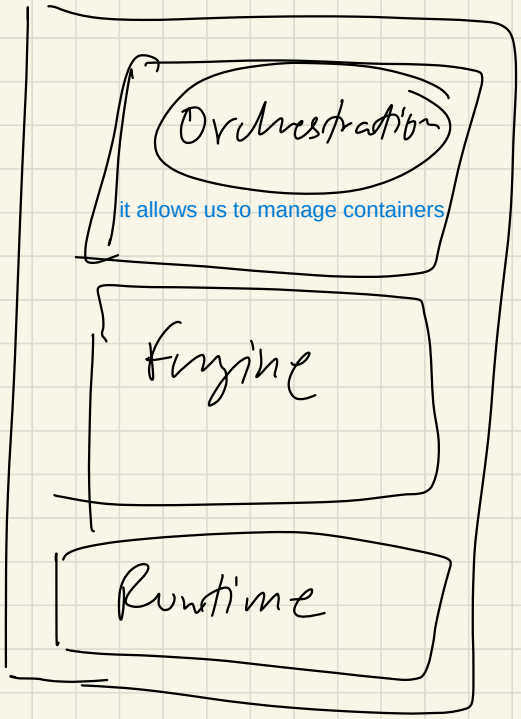
low-level runtime — runc (it works with our OS and starts and stop the cont)

high-level runtime — containerd (it manages run C ,helps in manages container,also pulling the images, conntecting to network and data)

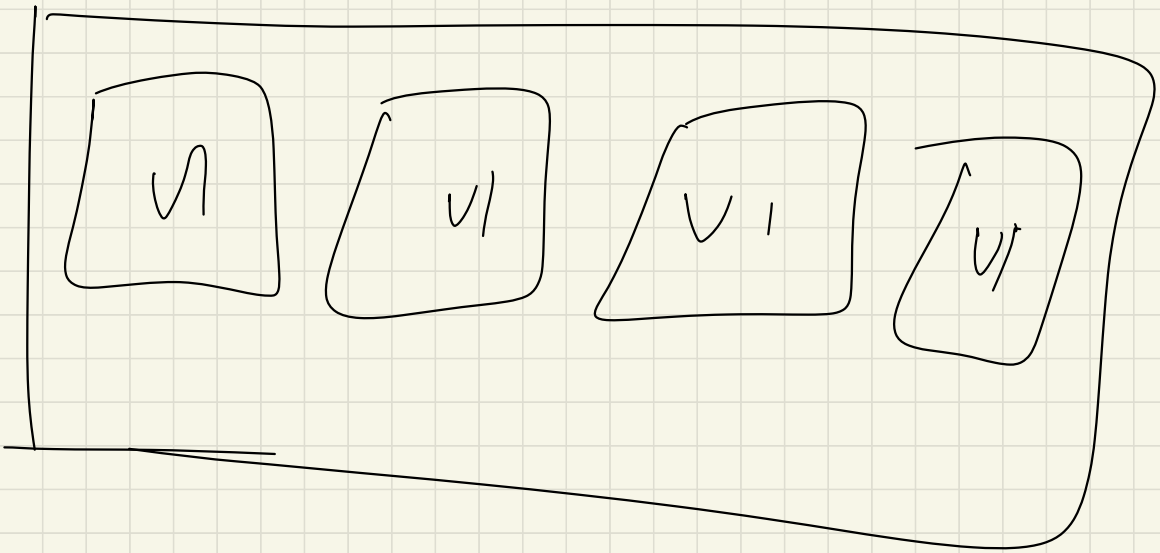
2 Engine , Daemon

it used to interact with server using cli and rest api

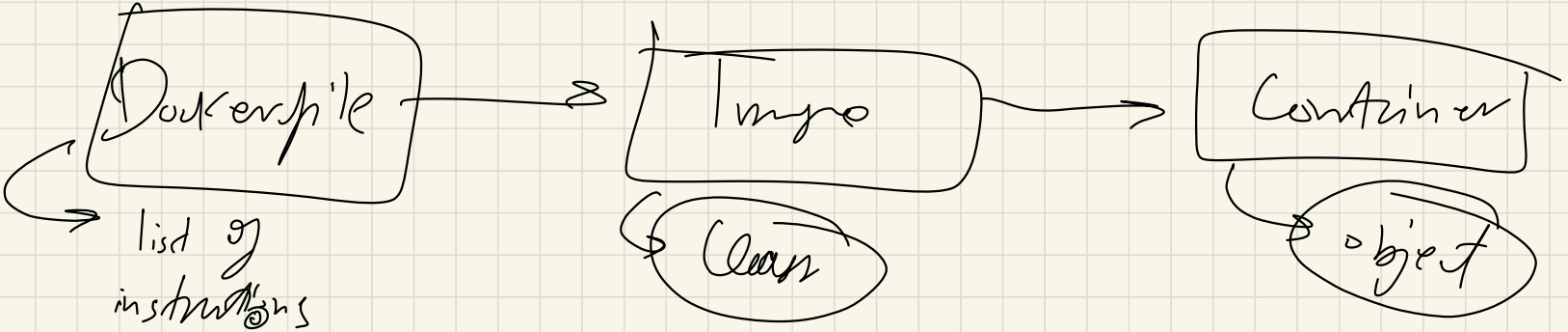


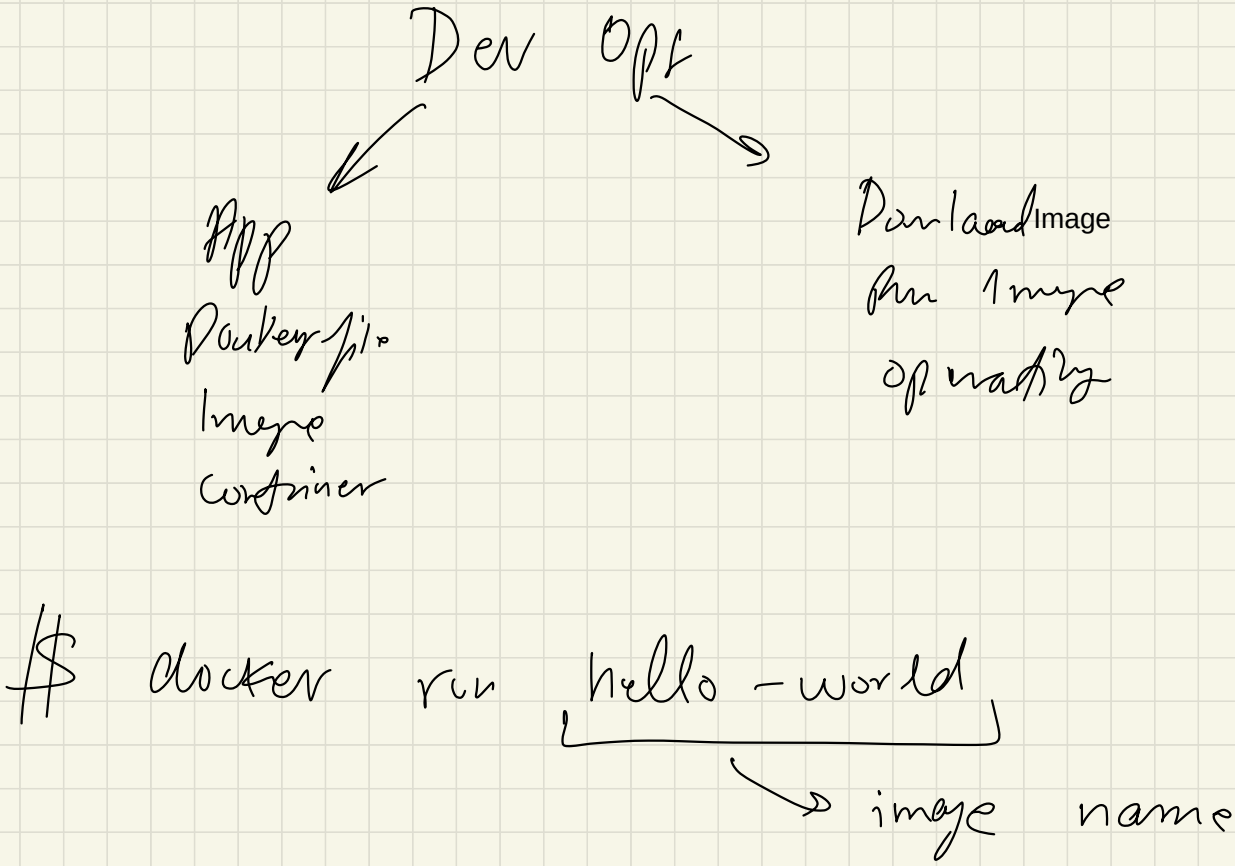


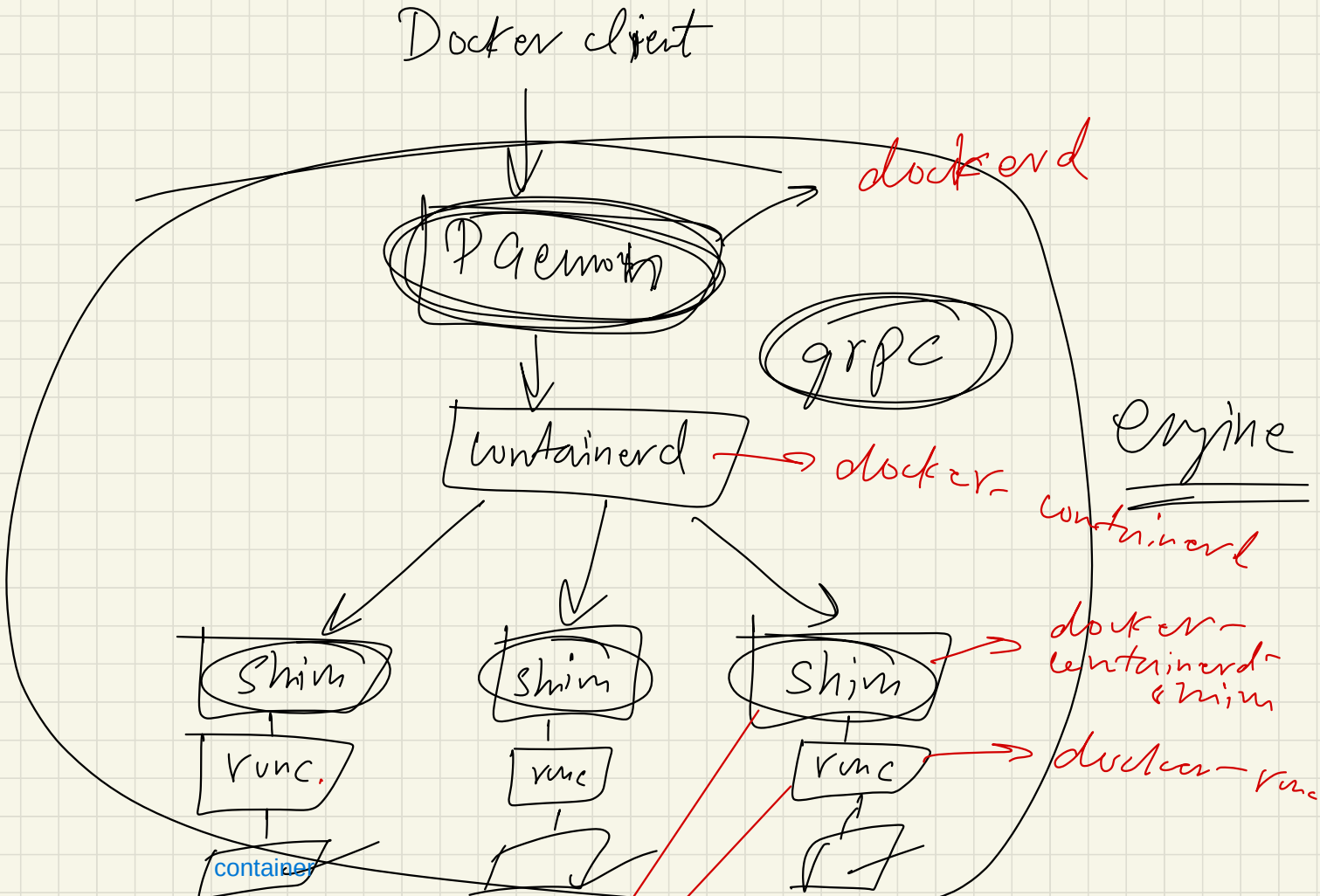
Docker Container

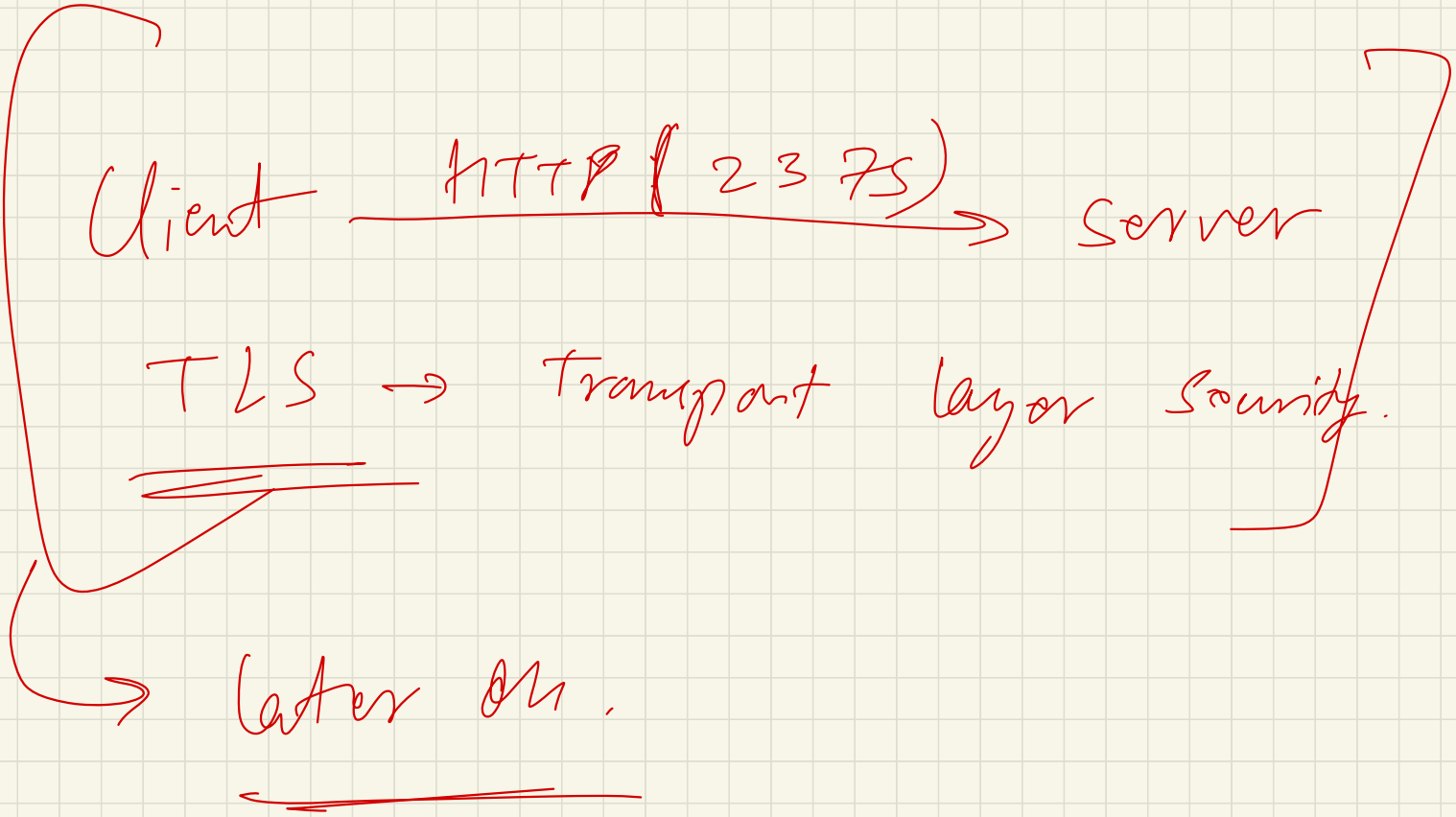


we run docker file(list of instructions to create an image),we can use the image to create our container.




Dev
Ops
App
Dockerfile
Image
Container
Download Image
Run Image
Ops work


Docker client
dockerd
Pgemon
grpc
containerd
docker-containerd-shim
runc
container


Client
HTTP (2375)
Server
TLS → Transport layer Security.
later on.