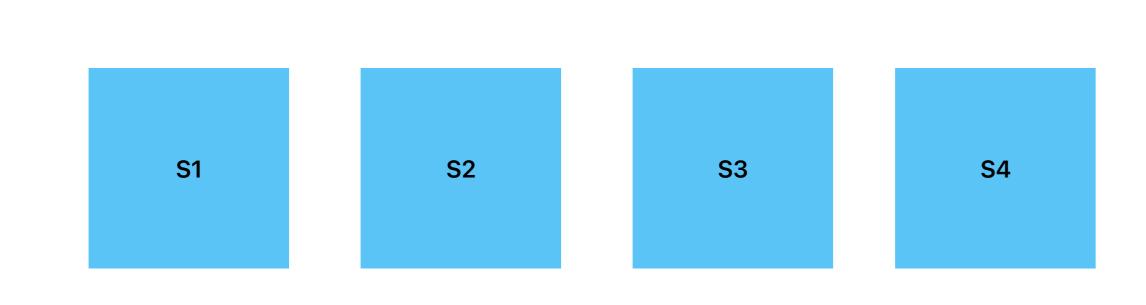
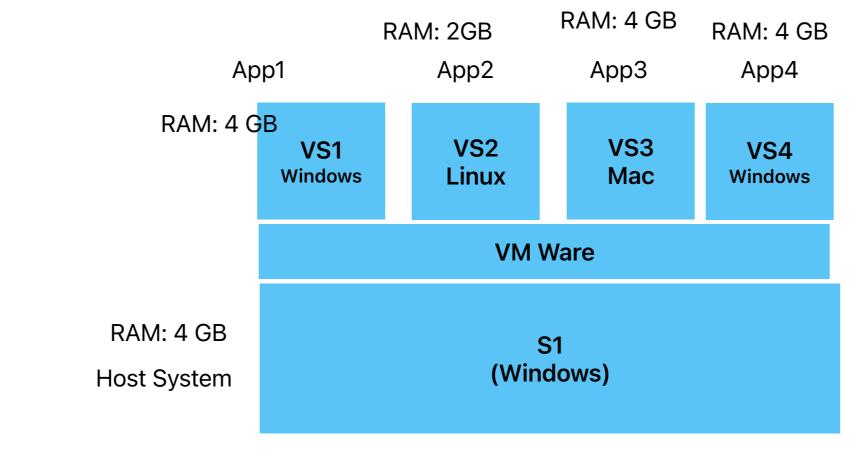
What is Docker?

Docker is a platform that lets you package, distribute, and run applications in lightweight,





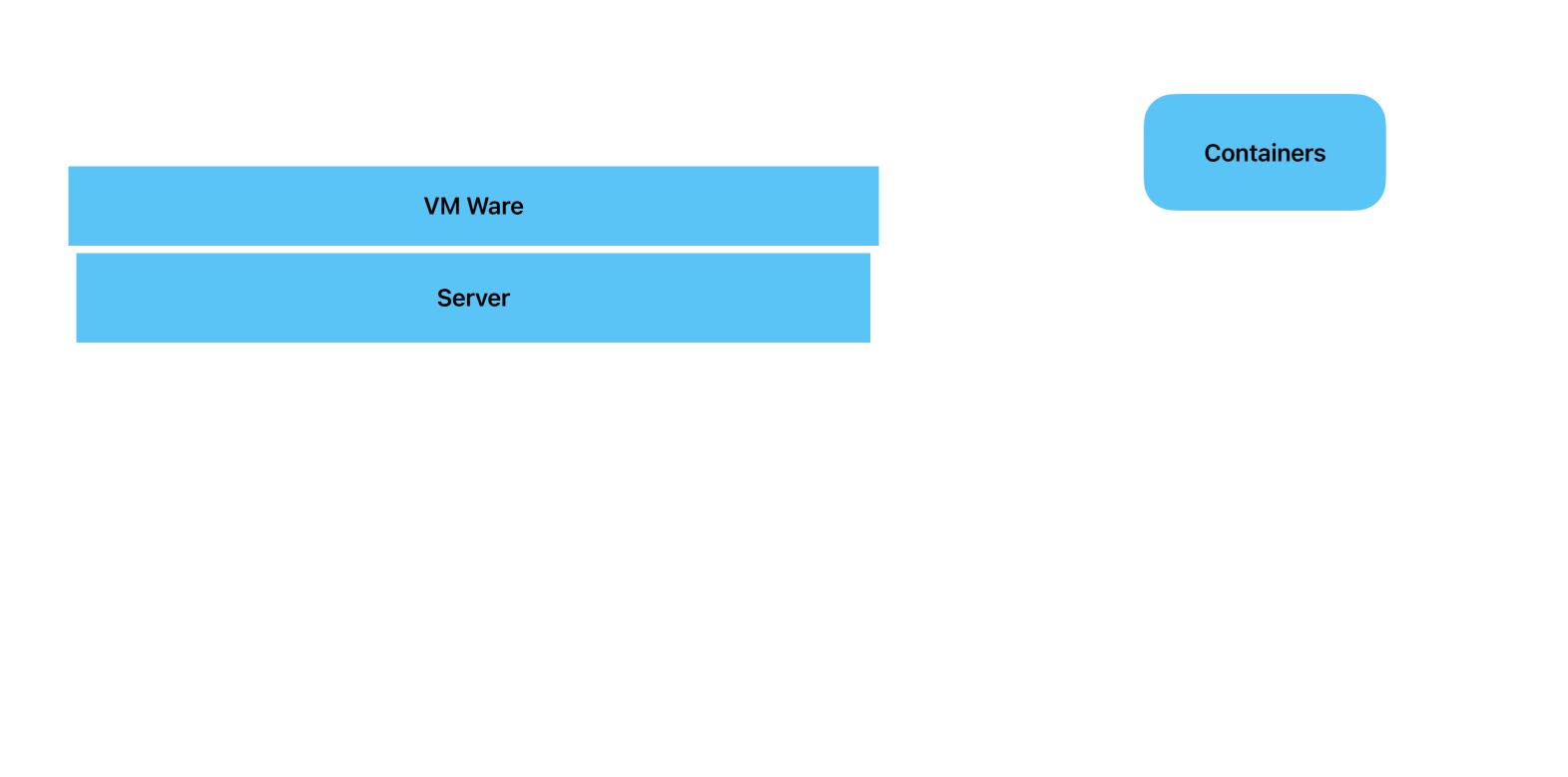
Computer with OS installed

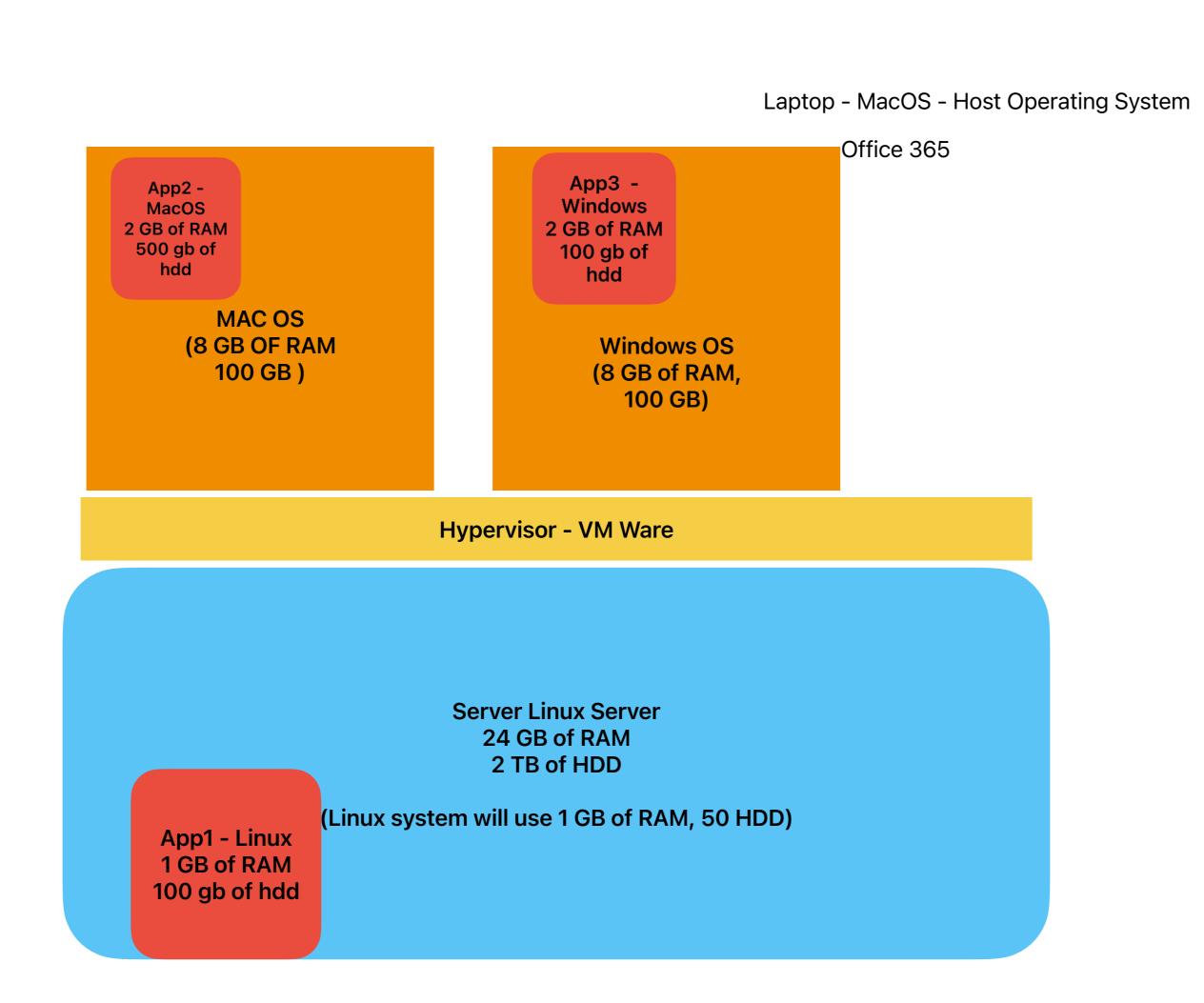
Containers

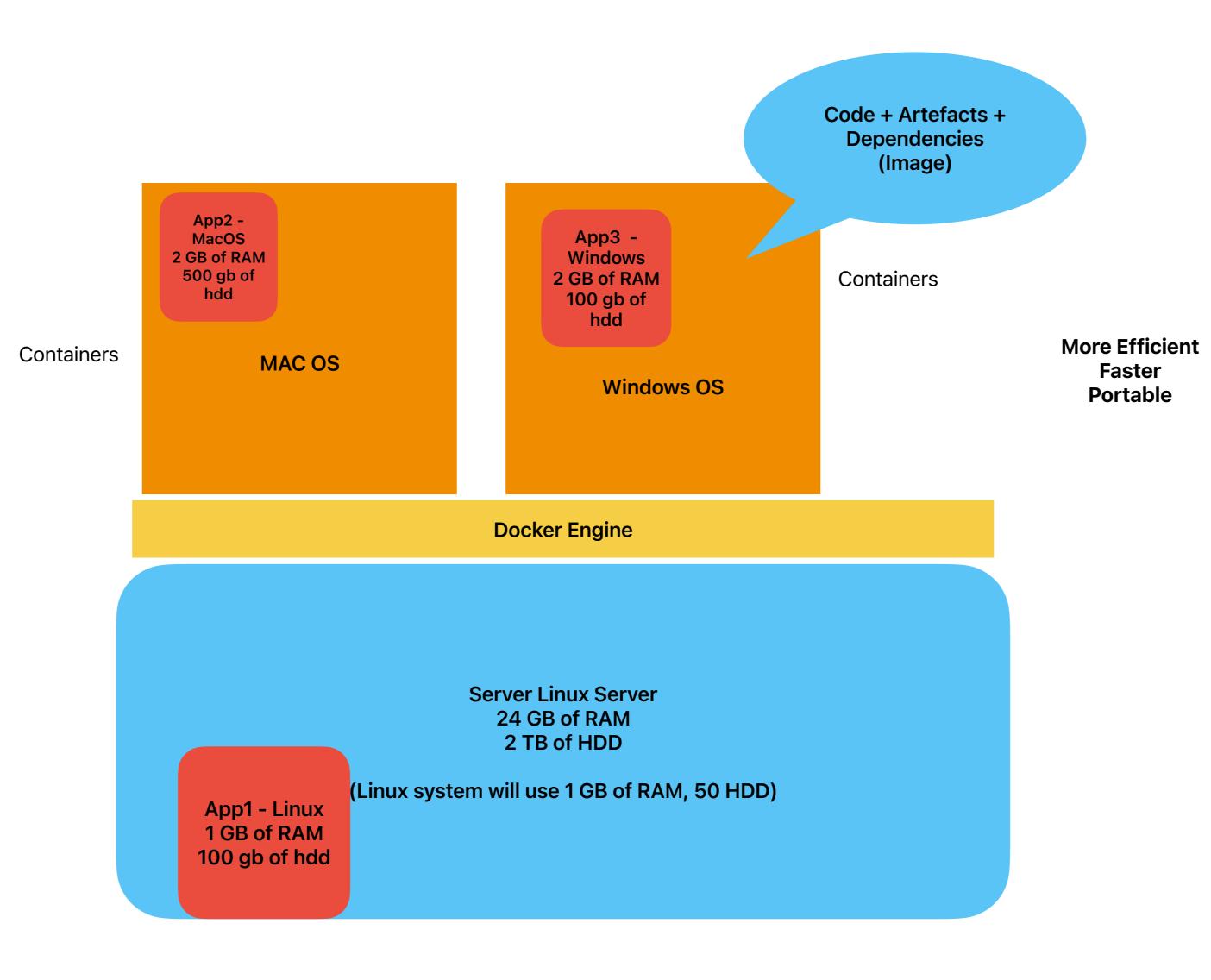
Instance of the Image

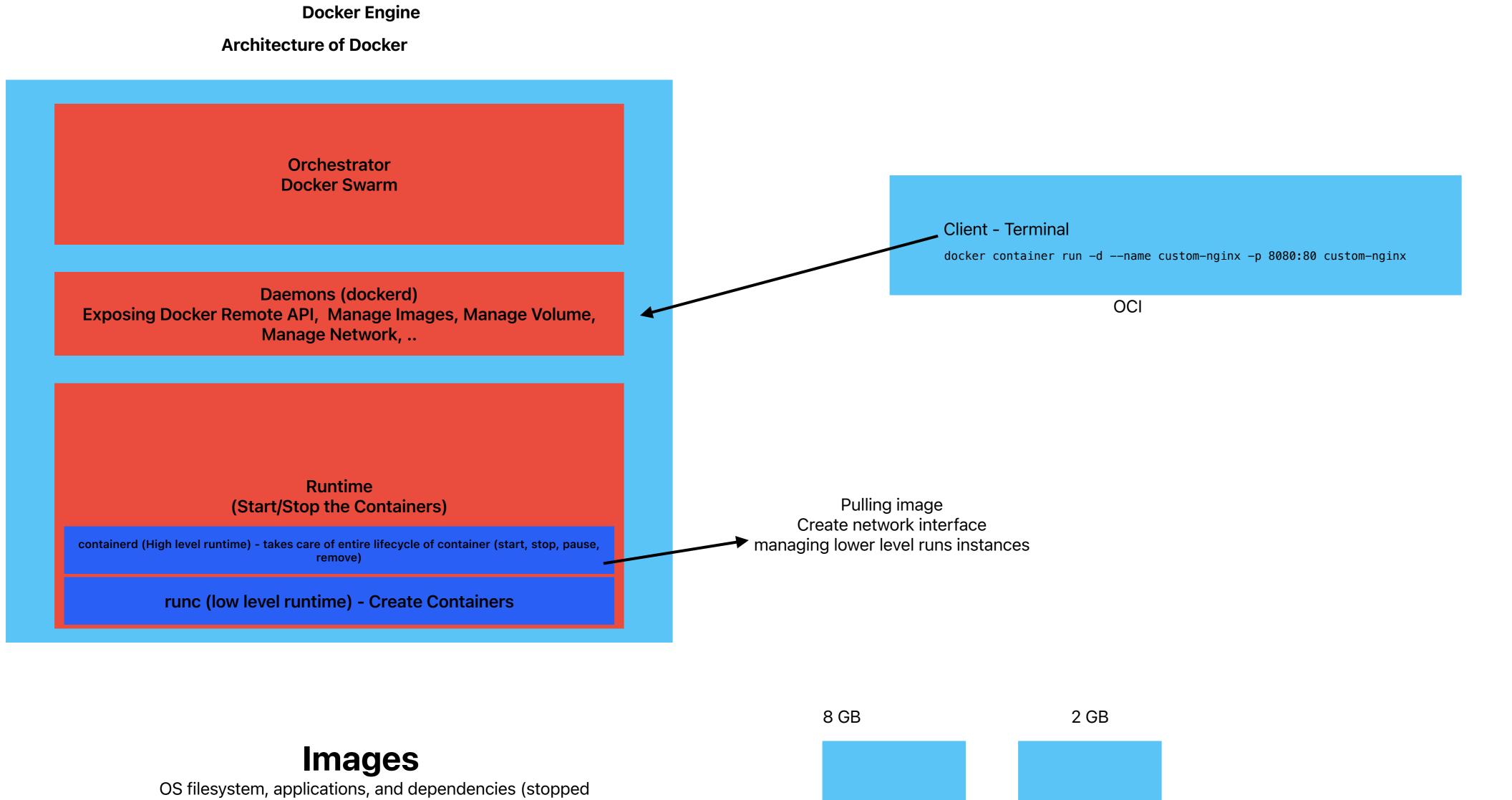
Like a VM to run Software Application

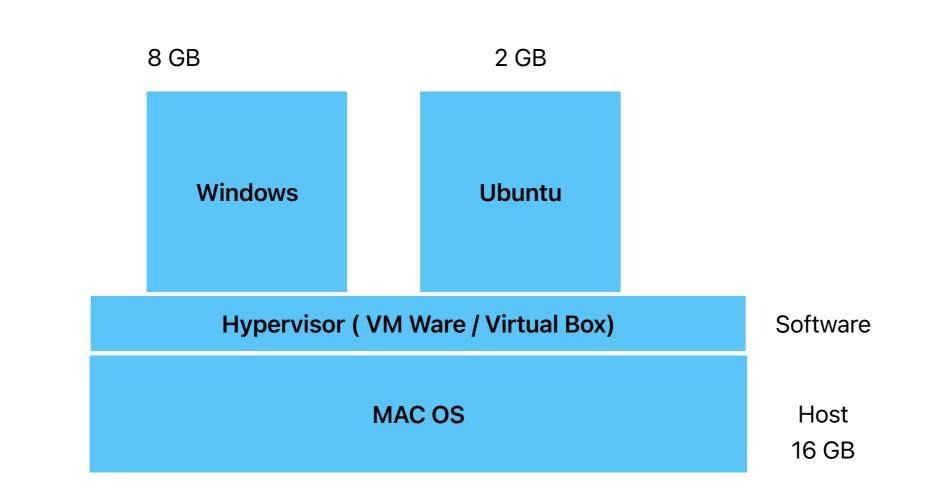
RAM: 16 GB

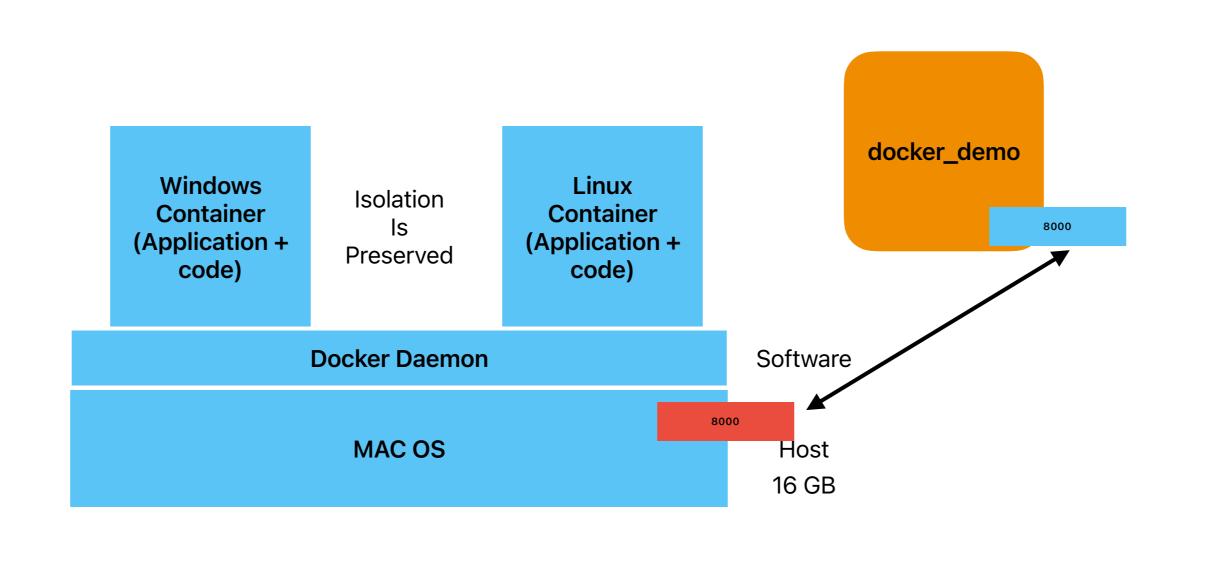












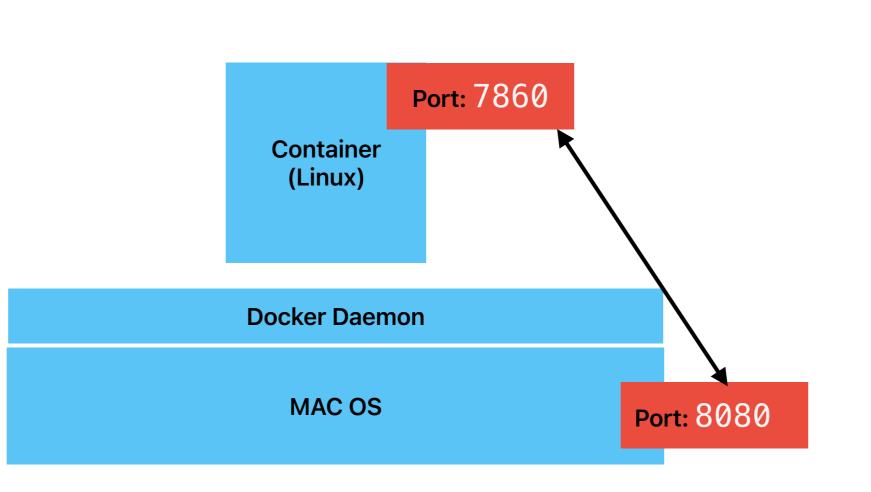
Dockerfile --> Text file that contains the list of commands that Docker Client calls while creating the image.

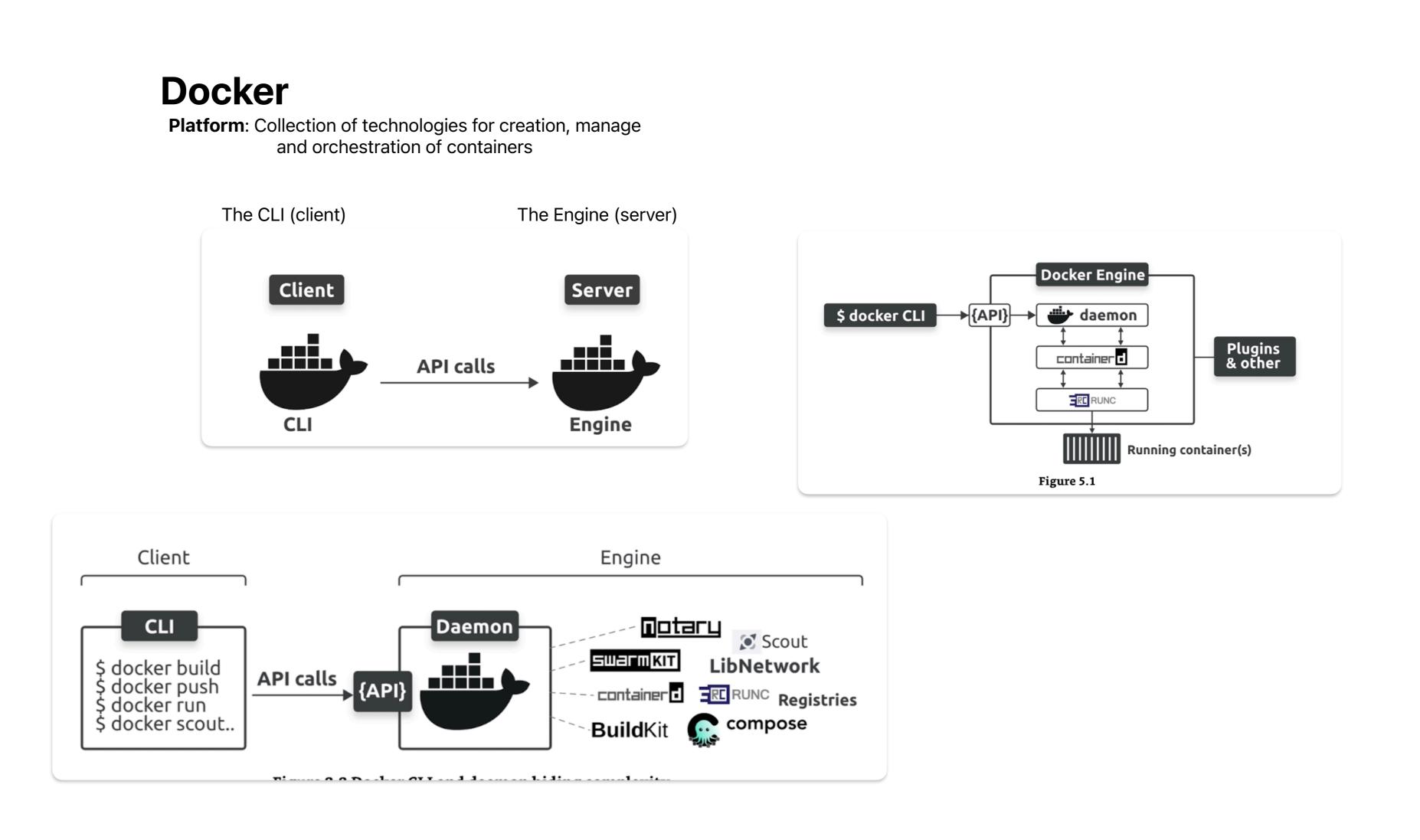
Commands to Run:

- docker run <image_name> : To create a container by referring the Image
- docker pull <image_name> : Download the image from Remote Repo

Docker Compose

docker compose up





Ops Perspective

- Check docker is working
- Download an Image docker pull image_name
- Start Container from Image
- Execute the command inside the Container
- Delete the Container

docker run --name nginx-demo -d -p 8080:80 nginx:latest

--name: Container Name-d: start the container in the background (detach mode)-p: Map the port 80 in the container to port 8080 on Docker Host nginx:latest: Image Name

docker stop nginx-demo docker rm nginx-demo

docker exec -it nginx-demo bash
-it: Interactive
Nginx:demo: container name
Bash: command to execute

Dev Perspective

- Clone an app from Github Repo
- Inspect an Dockerfile
- Containerize the app docker build -t test:latest.
- Run the app as container

Docker run --name docker_demo_container -d -p 8000:8000 docker_demo

-d --> detach-p --> port mapping