What is Docker?

Build, Run, Ship Applications

It is a platform for building, running and shipping applications

WORKS ON MY MACHINE
38
CUSTOMER PROBLEM NOW!

HOW CAN WE SOLVE THIS PROBLEM?

- We can ship the machine

that you developed the app?

- Or we can dockerise it!

POSSIBLE REASON WHY THE APP WON'T WORK ON ANOTHER MACHINE

- Missing files
- Software version mismatch
  - Example: different node version
- Different configuration settings

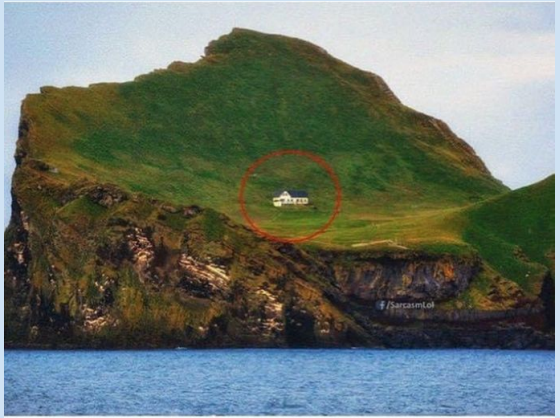
BENEFITS

- When you delete an app all the dependencies will go with it. Won't clutter your hd
- A new team member can easily build the app on their machine

$ docker-compose up

PACKAGE

- Node 14
- Postgresql
- App-1



I don't know who owns that house, but I can understand their decisions in life.

PACKAGE

- Node 18
- MongoDB
- App-2

Your containers will be isolated from each other

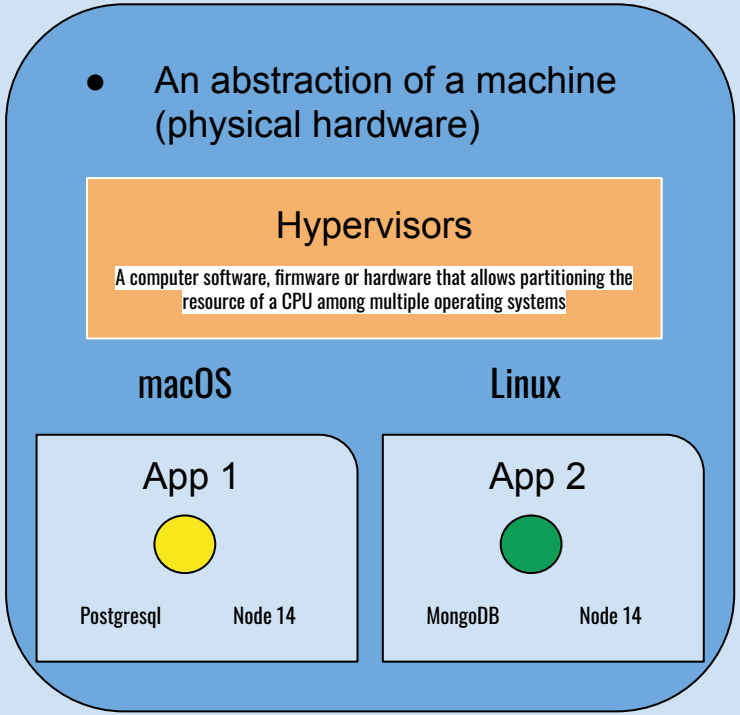
https://www.atlassian.com/microservices/cloud-computing/containers-vs-vms

CONTAINER

- An isolated environment for running an application
- Lightweight, uses only one OS
- Start quickly
- Need less hardware resources

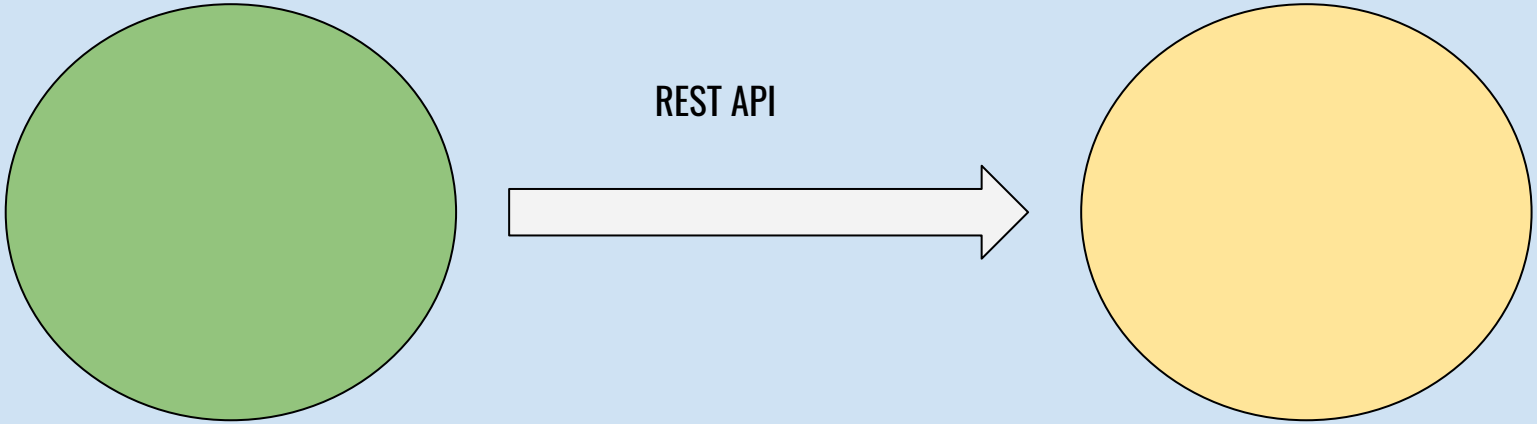
VIRTUAL MACHINE

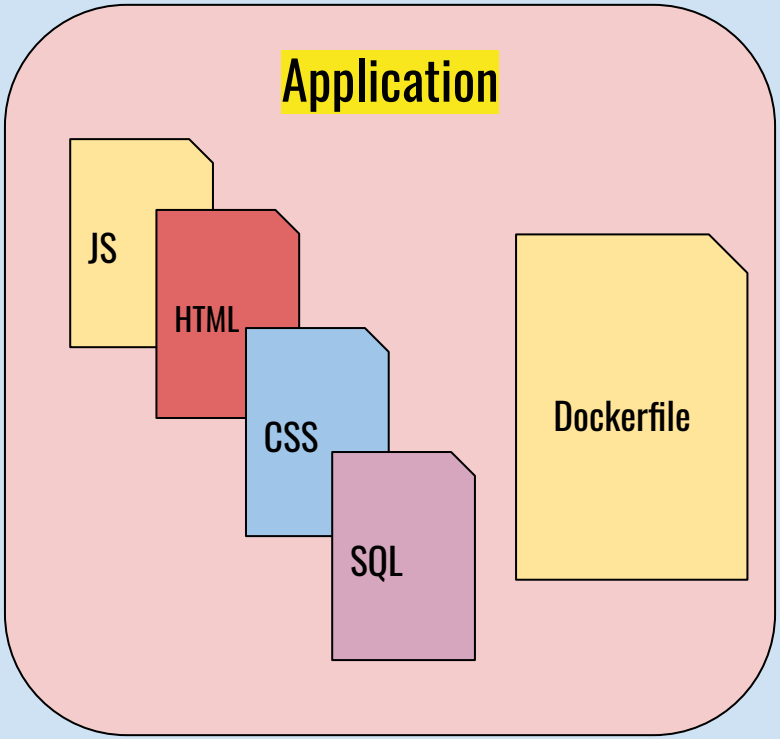
- An abstraction of a machine (physical hardware)

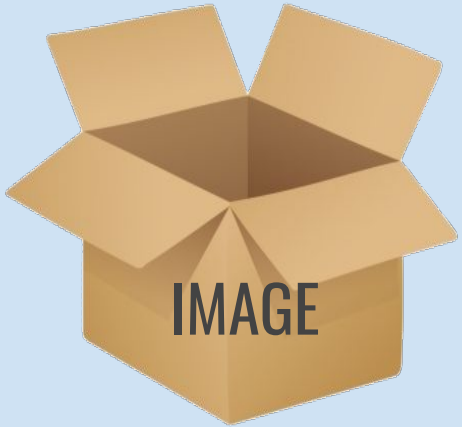


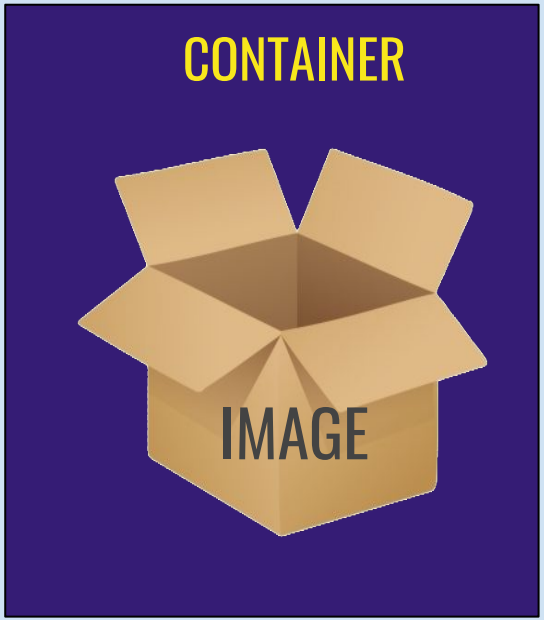
CLIENT

SERVER
DOCKER ENGINE







- Runtime environment (eg Node)
- Application files
- Libraries
- Environment variables

$ docker run ...