

SPRING FRAMEWORK





What is Docker?

An Introduction to Docker

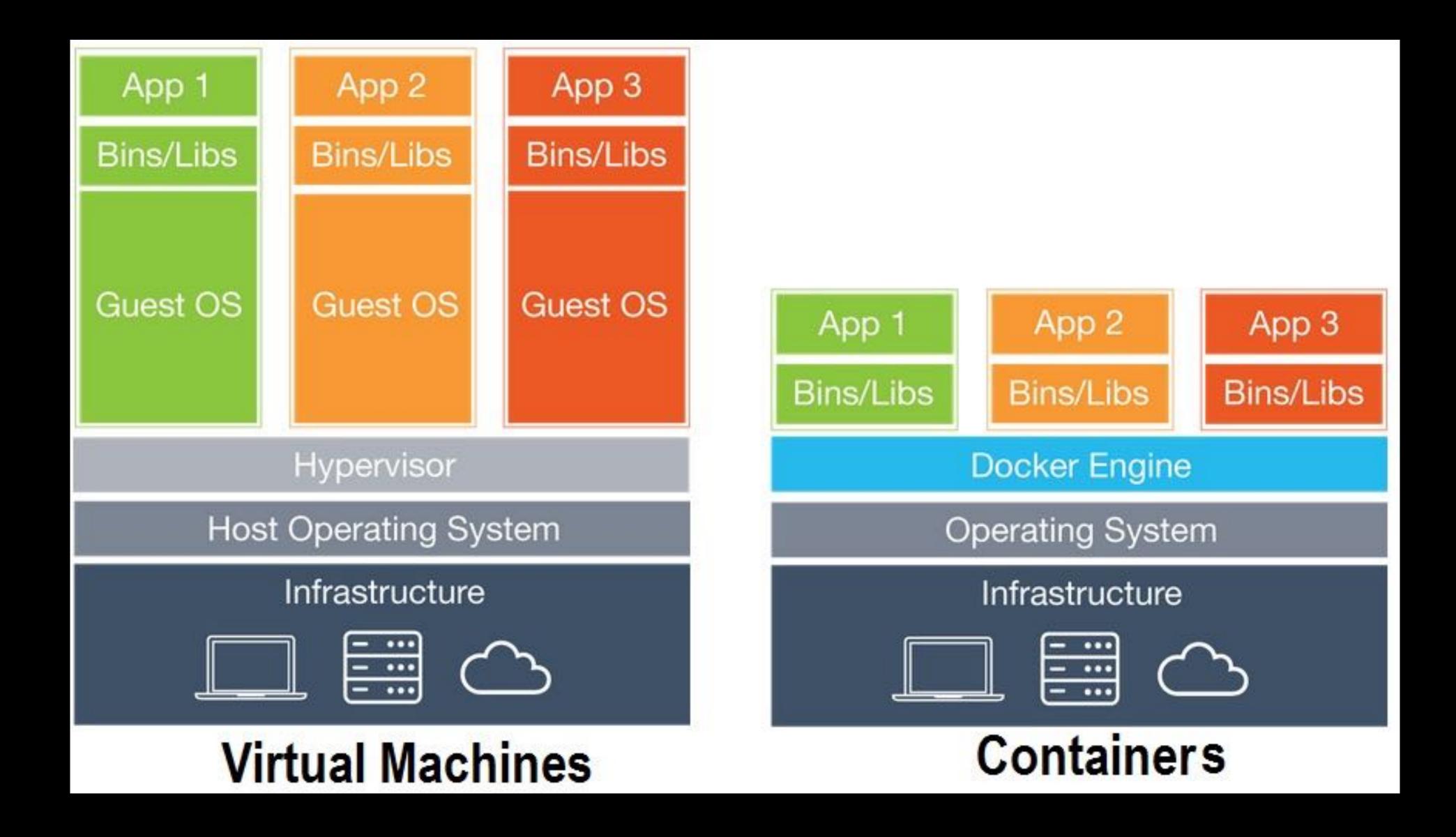
What is Docker?

- Docker is a standard for Linux containers.
- A "Container" is an isolated runtime inside of Linux.
- A "Container" provides a private machine like space under Linux.
- Containers will run under any modern Linux Kernel

Containers can:

- Have their own process space.
- Their own network interface.
- 'Run' processes as root (inside the container)
- Have their own disk space.
 - (can share with host too)

A Container is not a VM!



Docker Terminology

- Docker Image The representation of a Docker Container. Kind of like a JAR or WAR file in Java.
- Docker Container The standard runtime of Docker. Effectively a deployed and running Docker Image. Like a Spring Boot Executable JAR.
- Docker Engine The code which manages Docker stuff. Creates and runs Docker Containers.

Multiplicity of Stacks



Static website

nginx 1.5 + modsecurity + openssl + bootstrap 2



Background workers

Python 3.0 + celery + pyredis + libcurl + ffmpeg + libopencv + nodejs + phantomjs



postgresql + pgv8 + v8



Analytics DB

Redis + redis-sentinel hadoop + hive + thrift + OpenJDK



Web frontend

Ruby + Rails + sass + Unicorn



API endpoint

Python 2.7 + Flask + pyredis + celery + psycopg + postgresql-client



Development VM

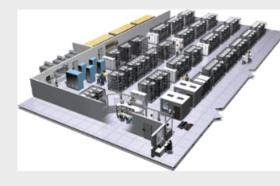


QA server

Customer Data Center



Public Cloud



Disaster recovery

Production Servers

Production Cluster



Contributor's laptop



Can I migrate smoothly and

Cargo Transport Pre 1960



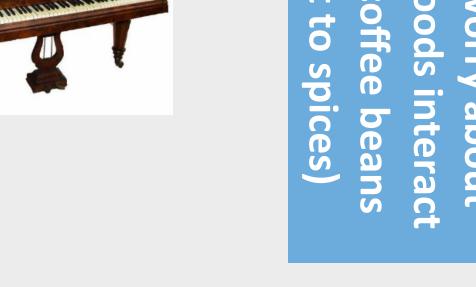








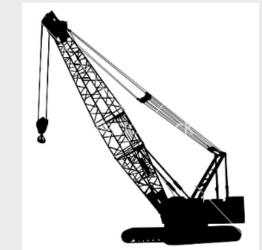


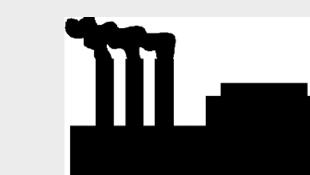




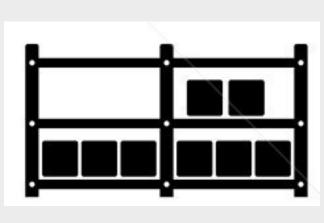










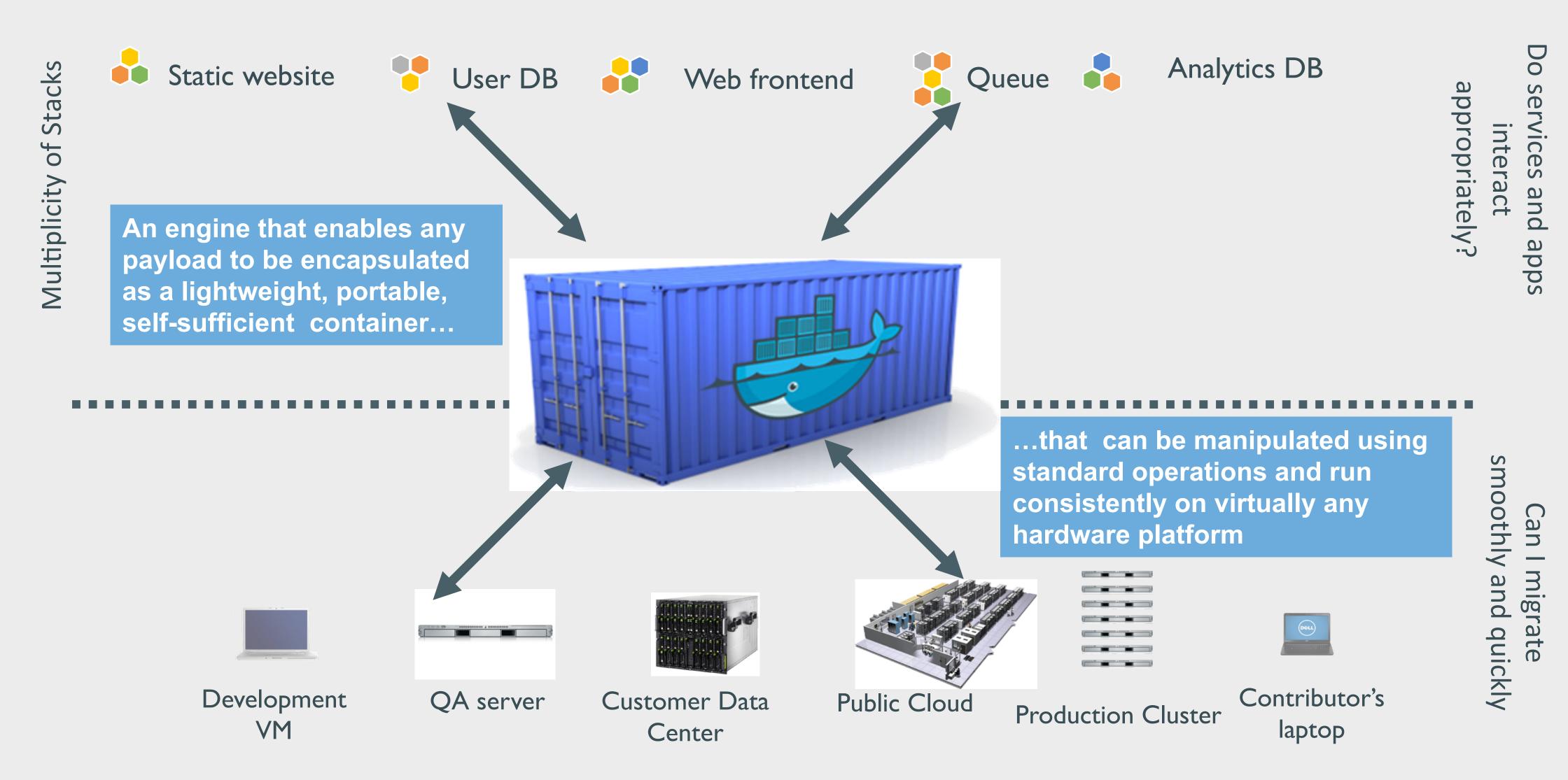


Intermodal Shipping Container

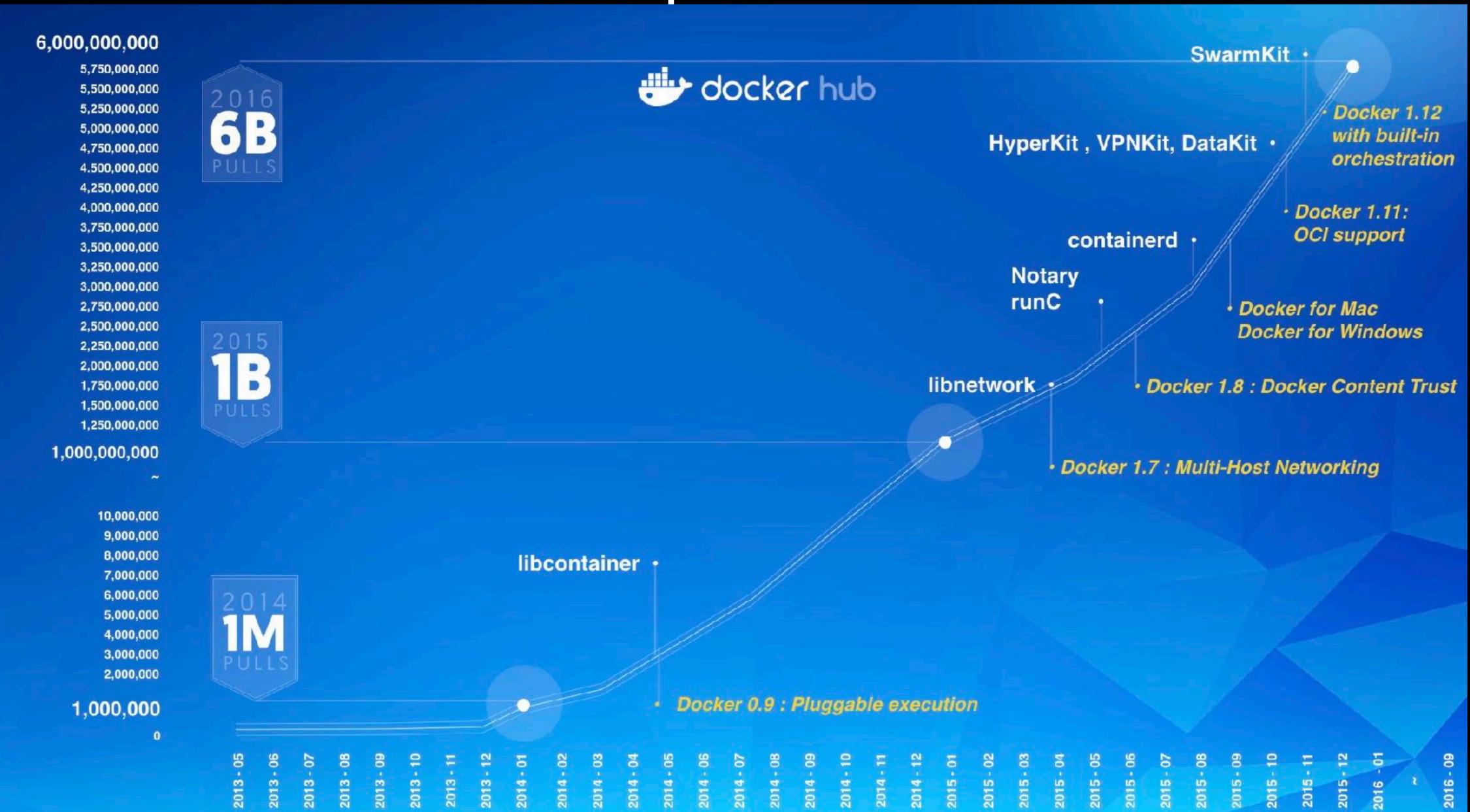


Can I transport uickly and smoothly (e.g. from boat to

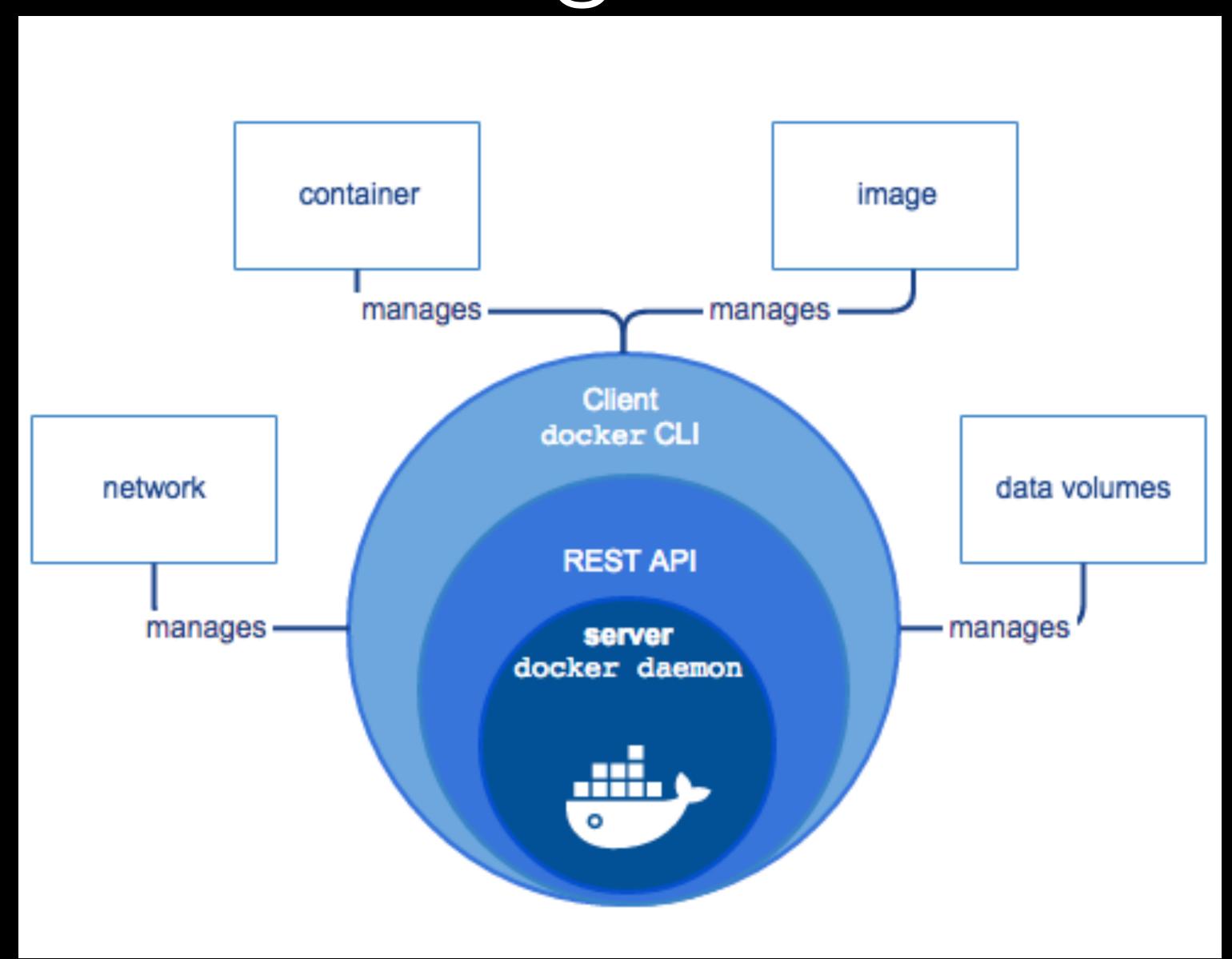
Docker - Shipping Container for Code



Docker's Explosive Growth



Docker Engine Runtime





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