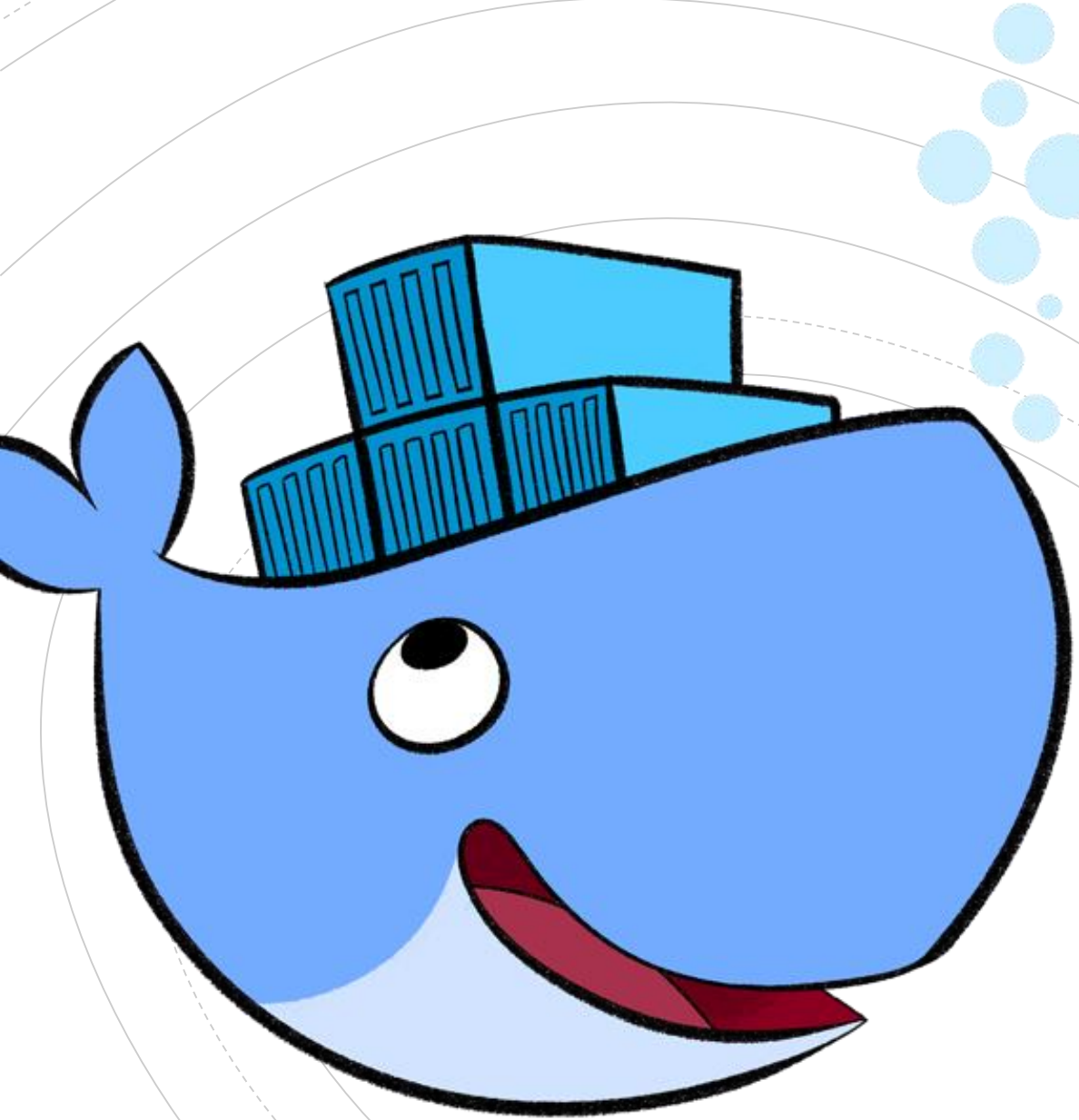
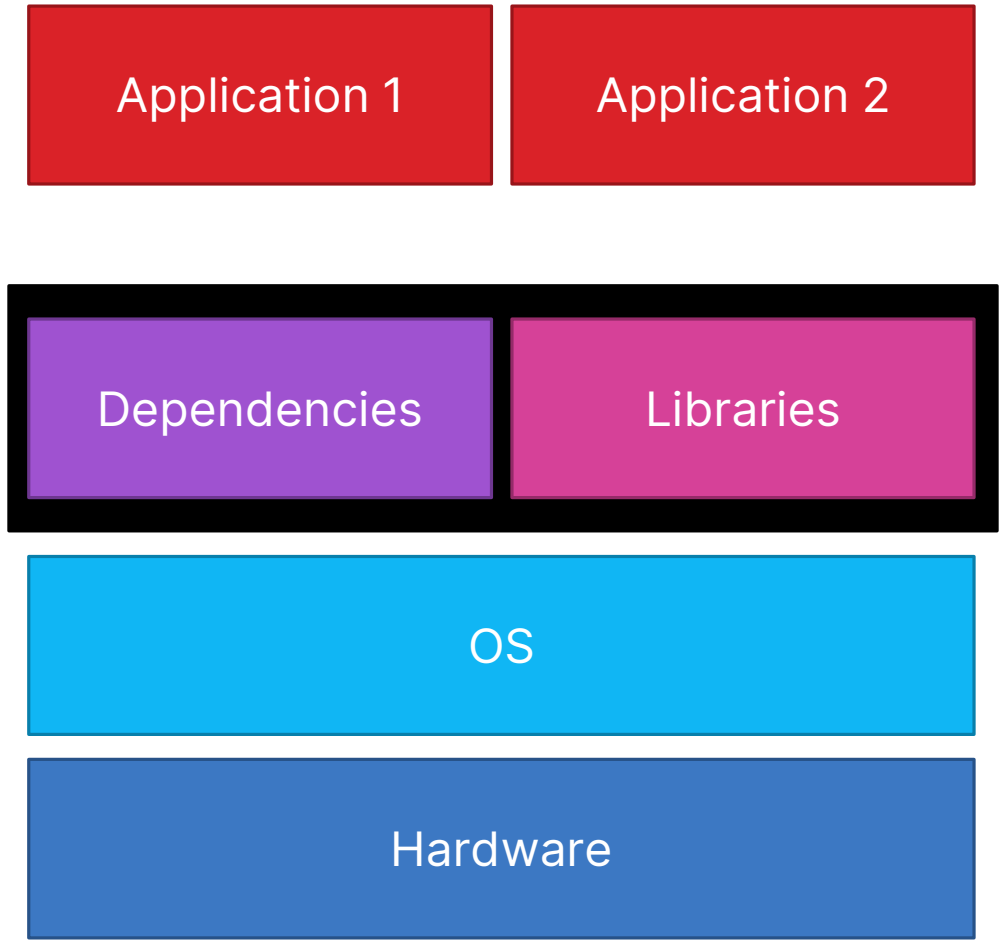
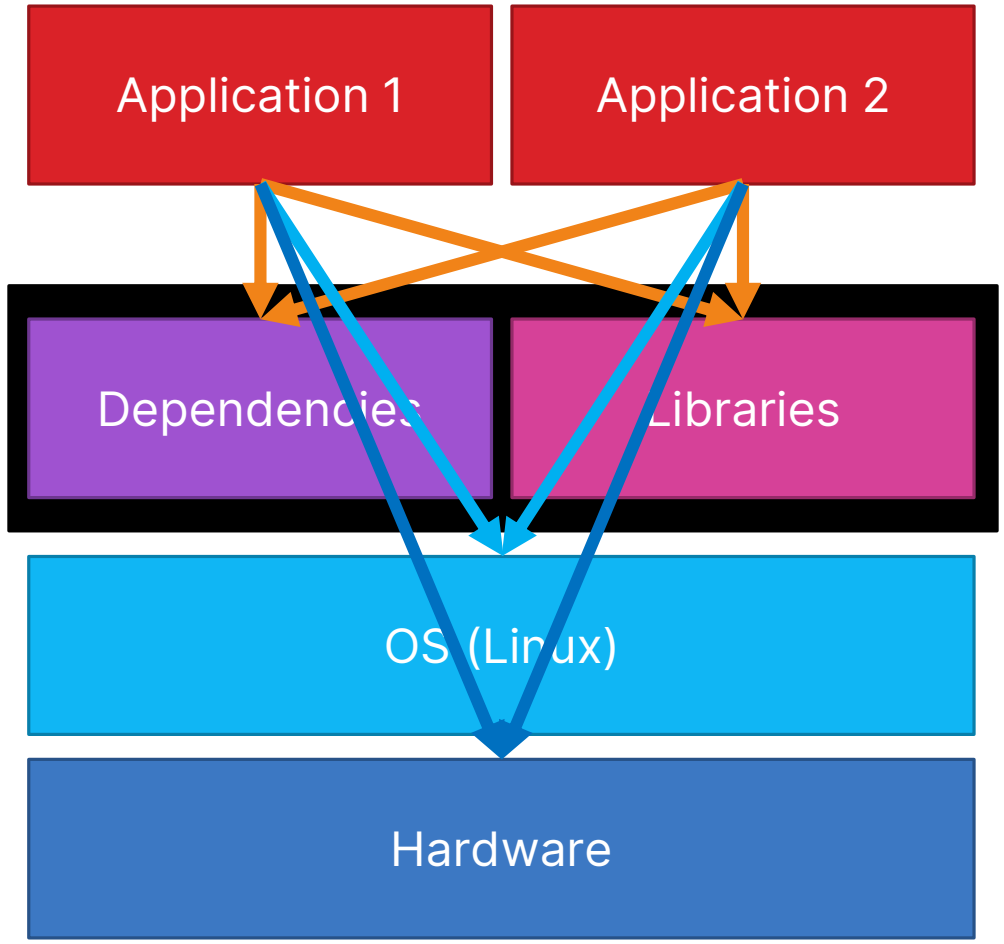


An Intro to Docker

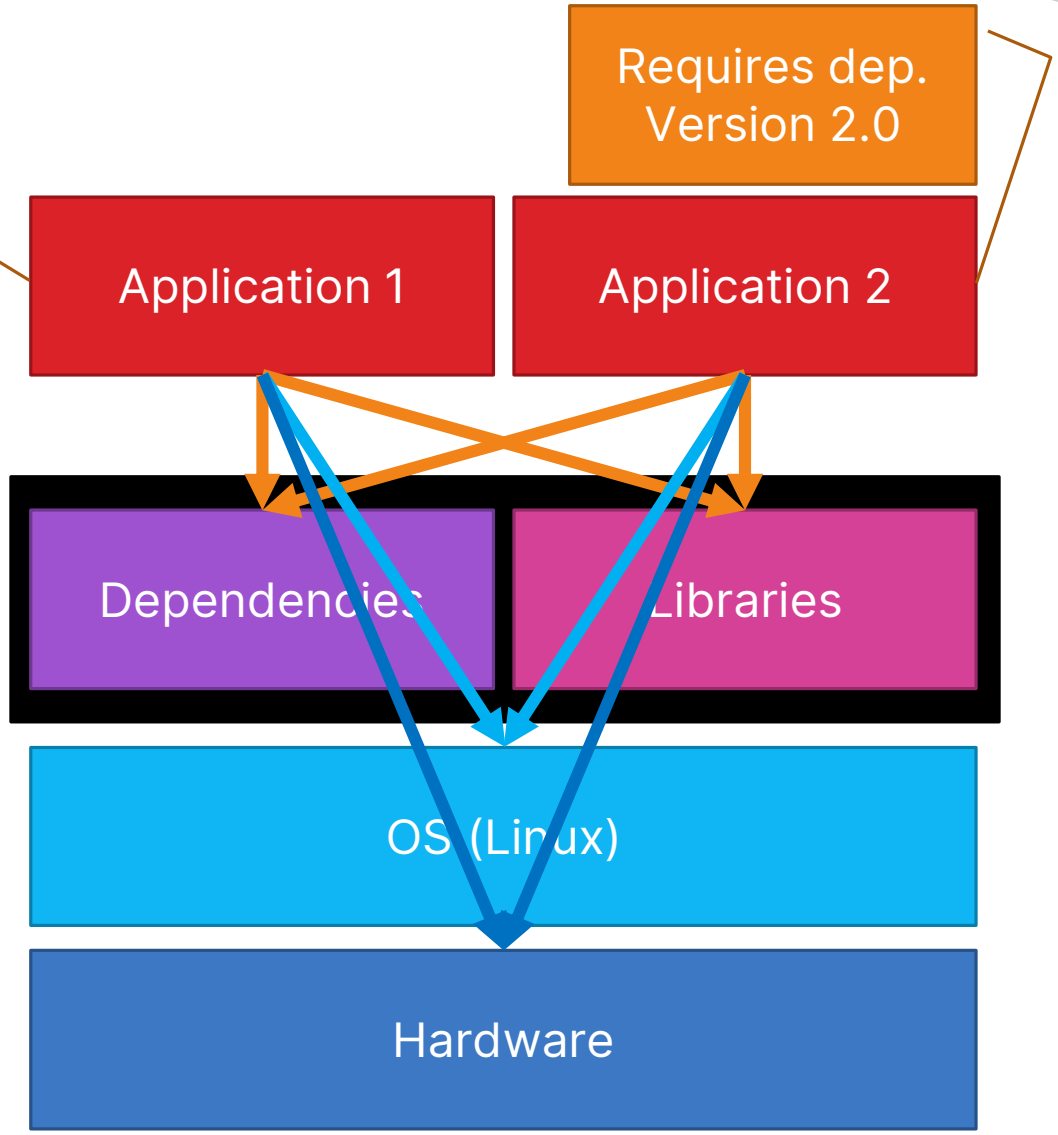
The Problem


Application 1
Application 2
Dependencies
Libraries
OS
Hardware

The Problem Evolves



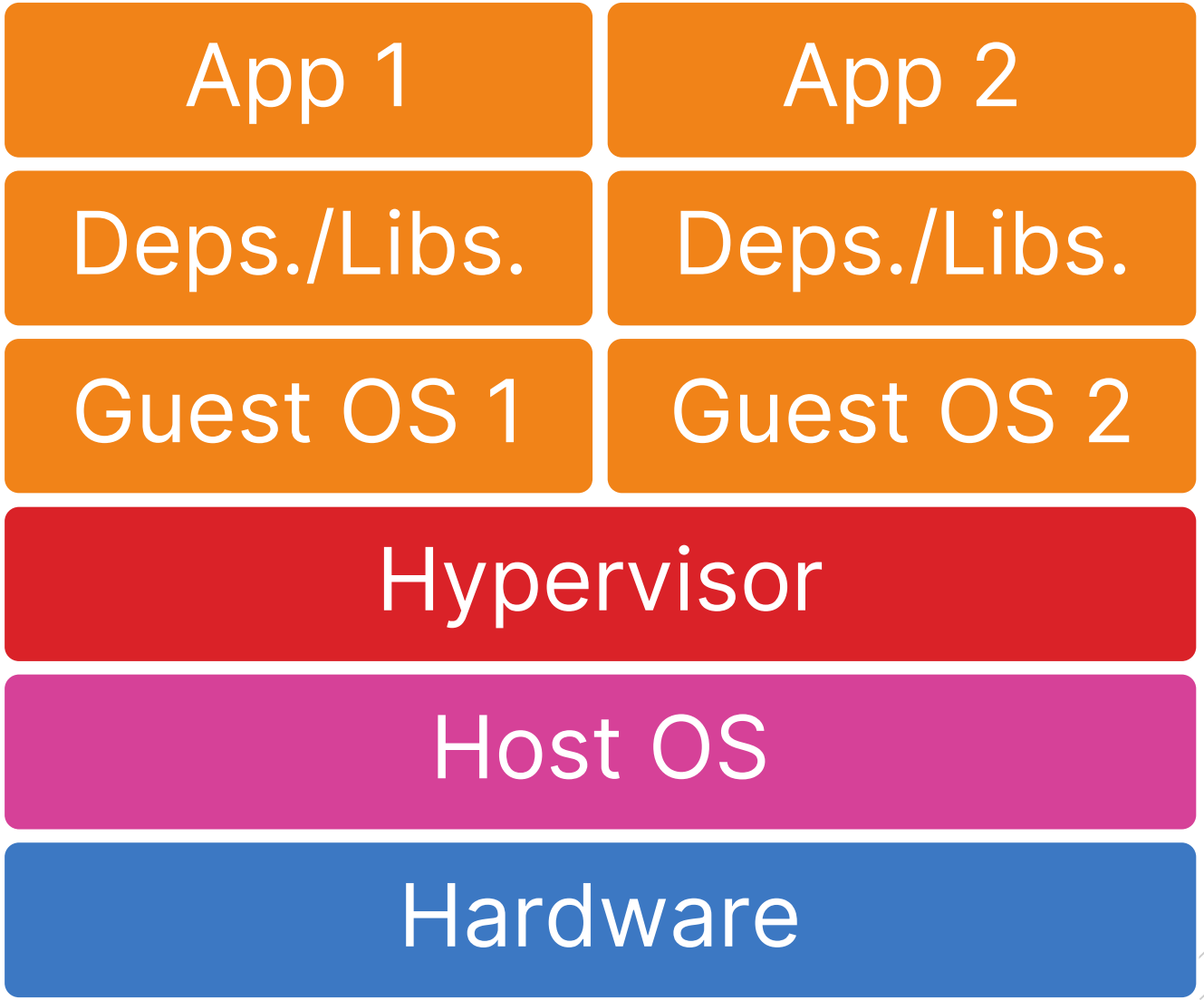
The Problem Evolves



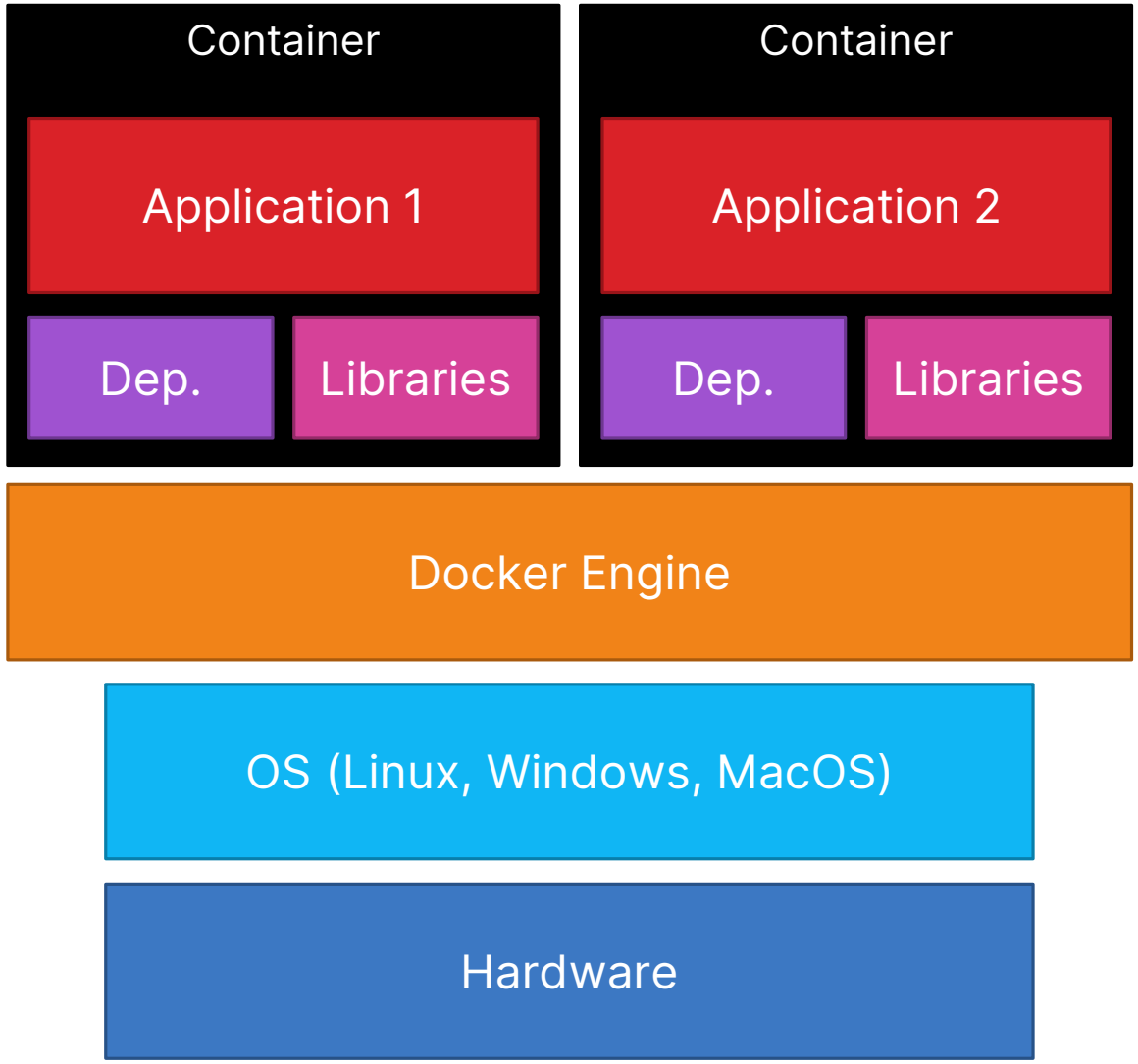

THIS IS FINE.

The Problem ****ing Evolves

Virtual Machines



The Proper Solution




Docker ≠
Virtualization

When To Use

- For **local development/testing**
- For **CI/CD**
- For **production** (Docker Swarm)
- For **multiple sub-projects**
- For **scaling**
- When you **depend on third-party products** (databases, etc.)
- When you target **many different OS**
- When you want to **decouple from dependencies**
- When you want to **save time**
- **Many more...**

Terminology

Registry

Image

- e.g. nginx, node, mongo, etc.

Dockerfile

Container

Volumes

Networks

Hands on
Custom Image

- Download and install Docker Desktop on your machines
  - Linux users, go to get.docker.com
  - Make sure you enabled virtualization before
- Navigate to https://github.com/ginomessmer/intro-to-docker
- Refer to README and start hacking

Cheers

Further Links & Steps

- Docker Introduction — What You Need To Know To Start Creating Containers: https://medium.com/@kelvin_sp/8ffaf064930a
- A Beginner-Friendly Introduction to Containers, VMs and Docker: https://www.freecodecamp.org/news/a-beginner-friendly-introduction-to-containers-vms-and-docker-79a9e3e119b/
- What is Docker? https://docs.microsoft.com/en-us/dotnet/architecture/microservices/container-docker-introduction/docker-defined
- *Add Docker to your CI/CD environment*
- *Docker Compose*
- *Docker Stack*