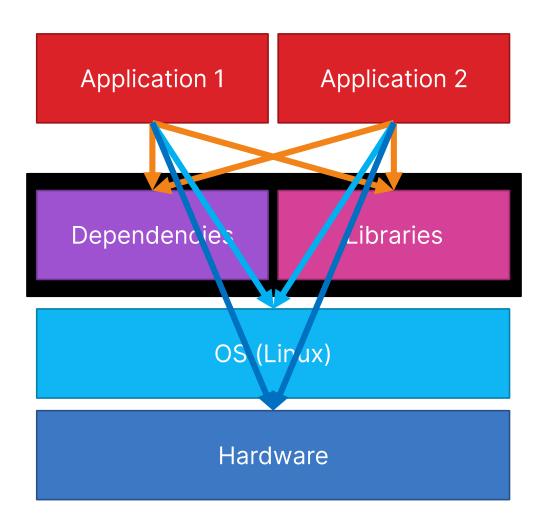




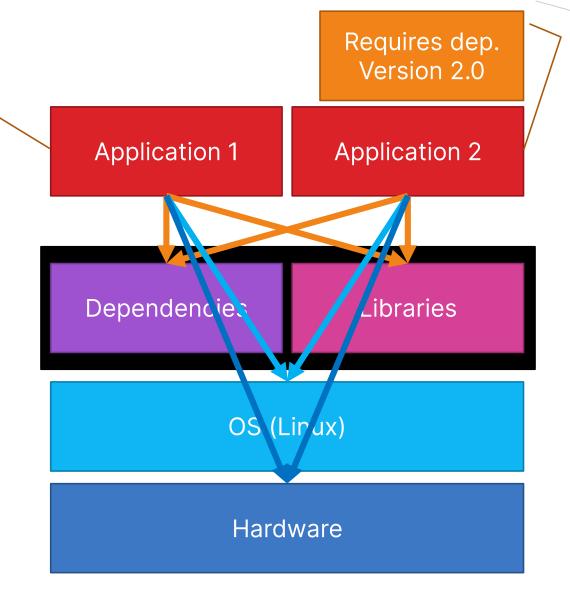
Application 1 Application 2 Dependencies Libraries OS Hardware

The Problem Evolves



Requires dep. Version 1.0

The Problem Evolves





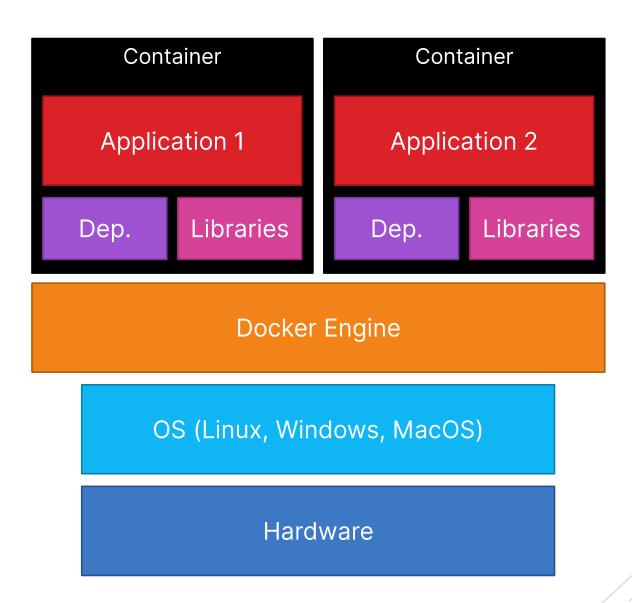
The Problem
****ing
Evolves



Virtual Machines

App 1 App 2 Deps./Libs. Deps./Libs. Guest OS 1 Guest OS 2 Hypervisor Host OS Hardware

The Proper Solution



Becker - Virtualization

When To Use

- For local development/testing
- For CI/CD
- For production (Docker Swarm)
- For multiple sub-projects
- For scaling/replicas
- 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

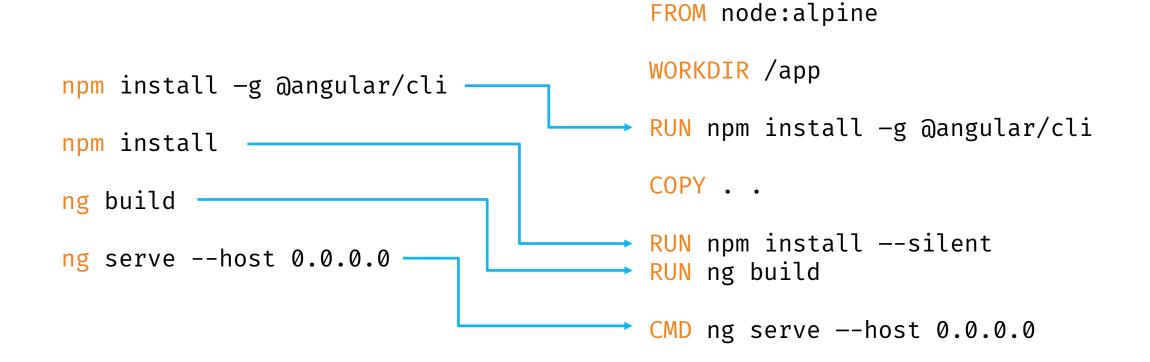
Container

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