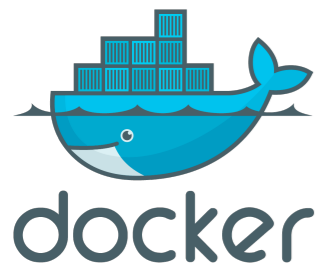


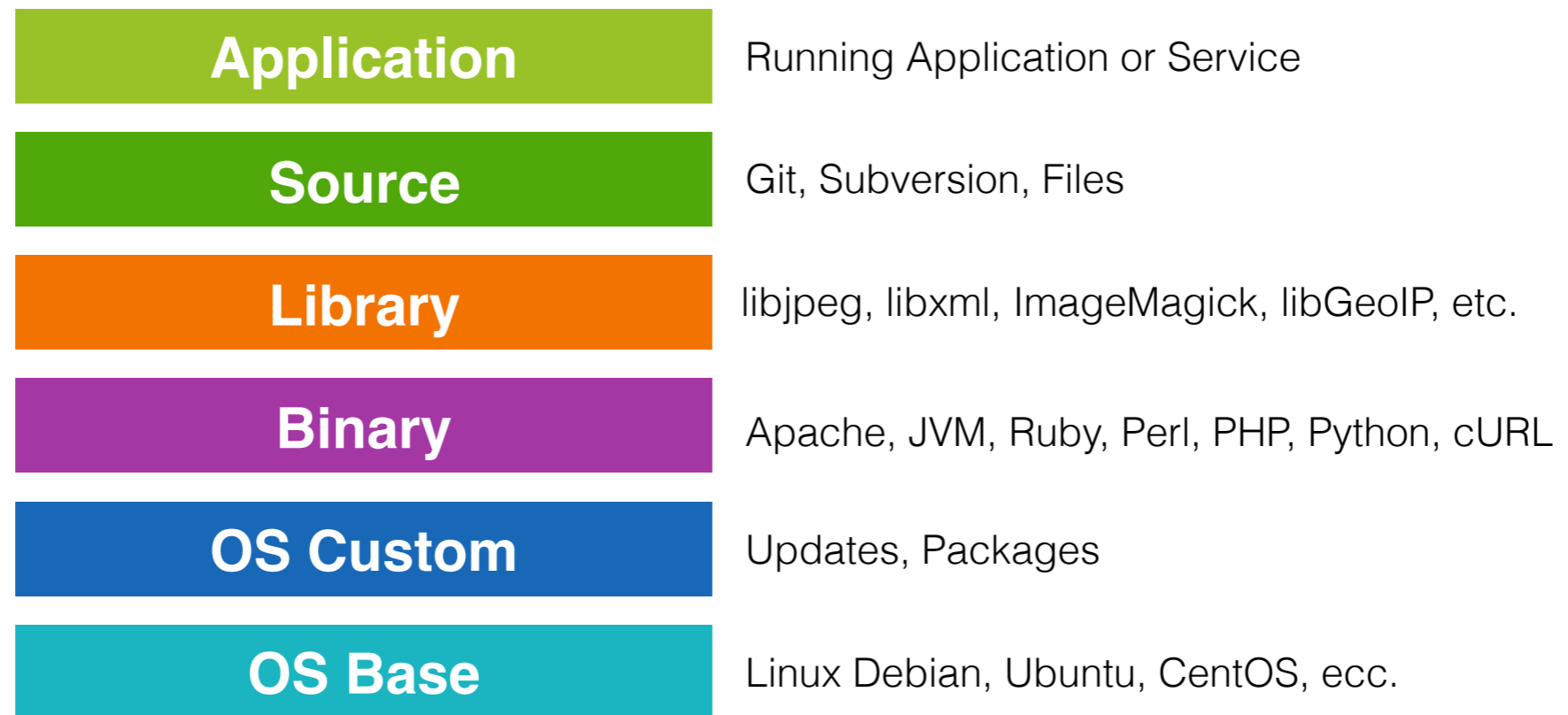


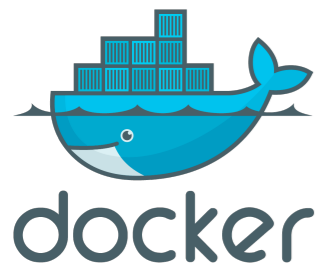
An open platform for distributed applications for developers and sysadmins

*Una piattaforma open per sviluppatori e sysadmins
per la distribuzione delle applicazioni*

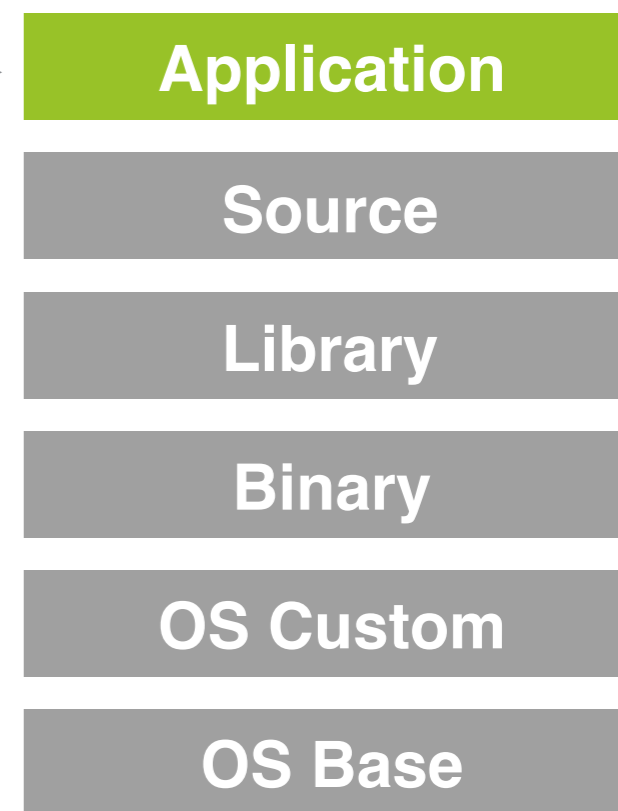
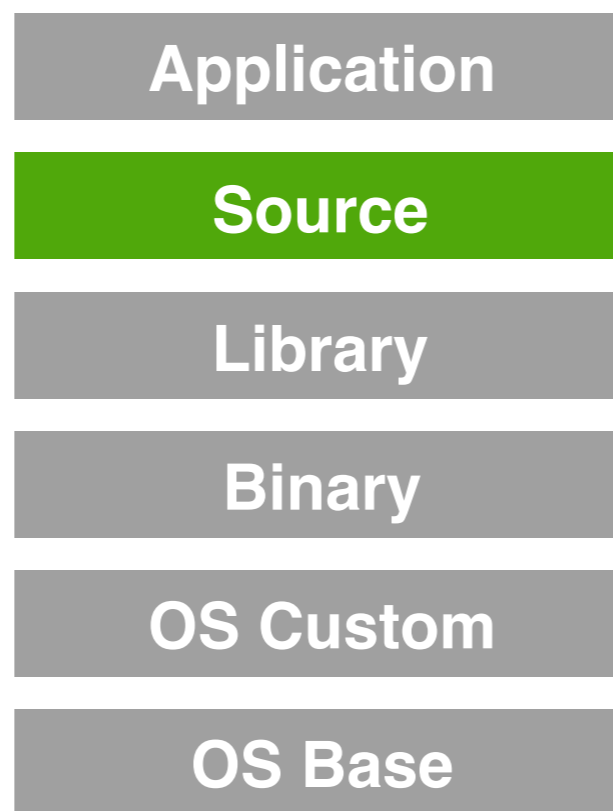
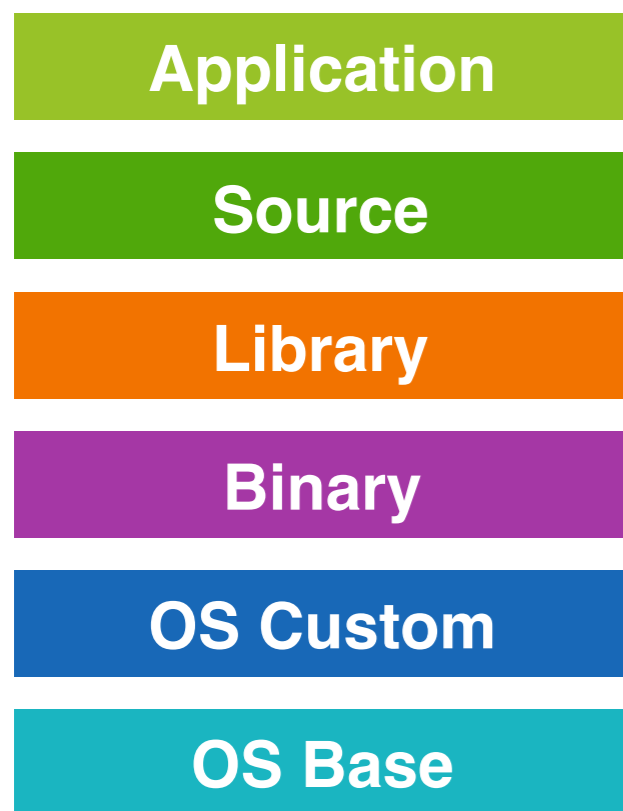


Cos'è un'applicazione?



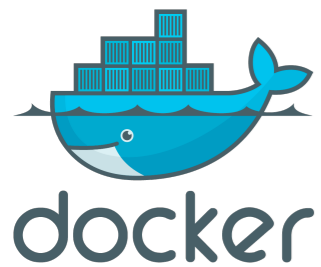


DevOps

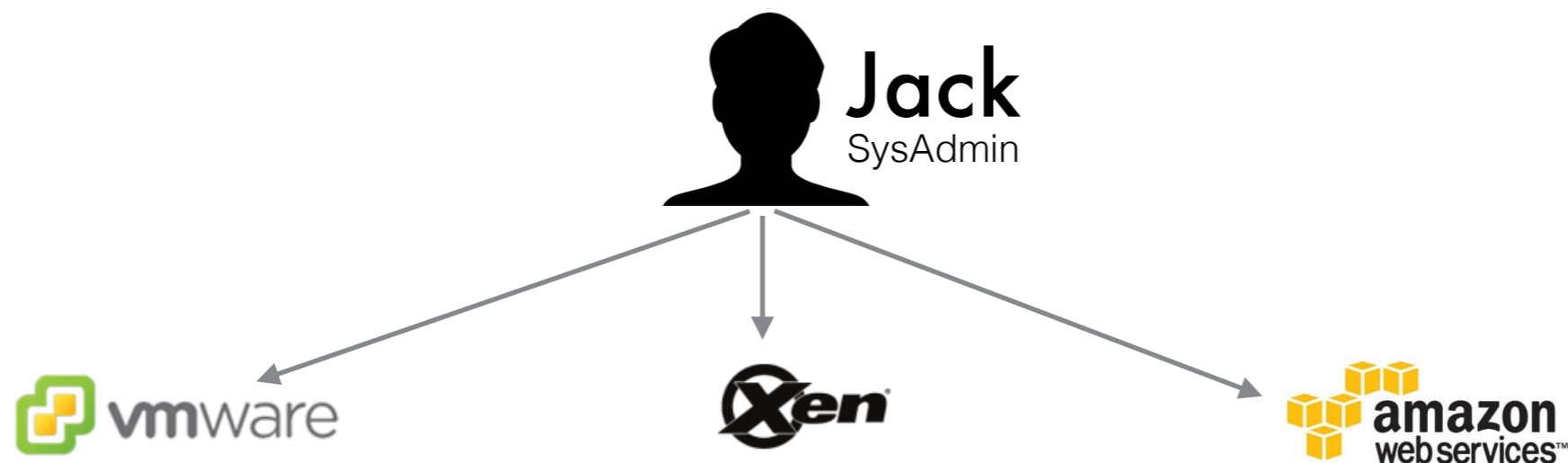


MyApp 1.0

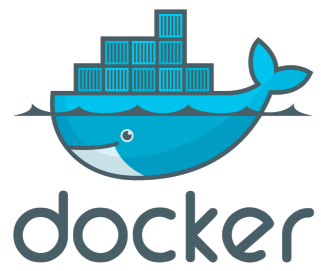
MyApp 1.1



Infrastructures



| Application | Application | Application |
|-------------|-------------|-------------|
| Source | Source | Source |
| Library | Library | Library |
| Binary | Binary | Binary |
| OS Custom | OS Custom | OS Custom |
| OS Base | OS Base | OS Base |

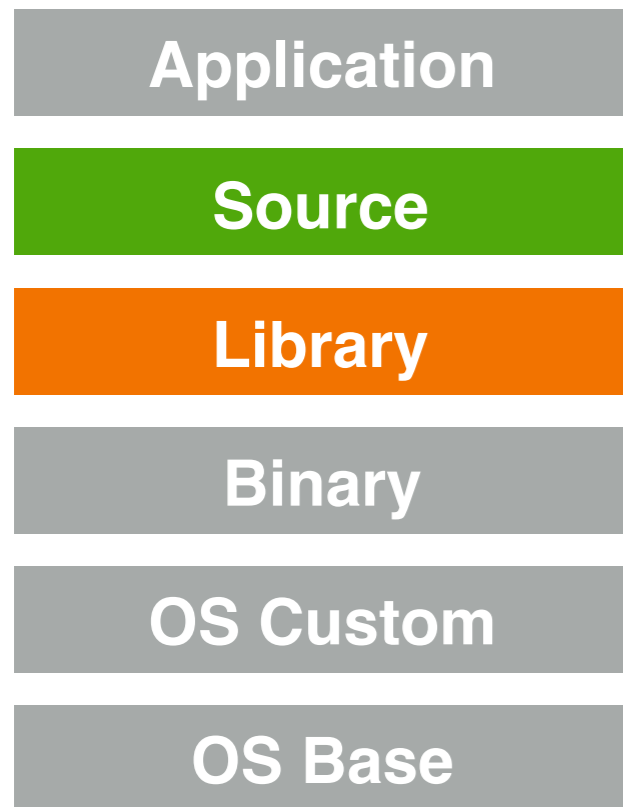


Updates

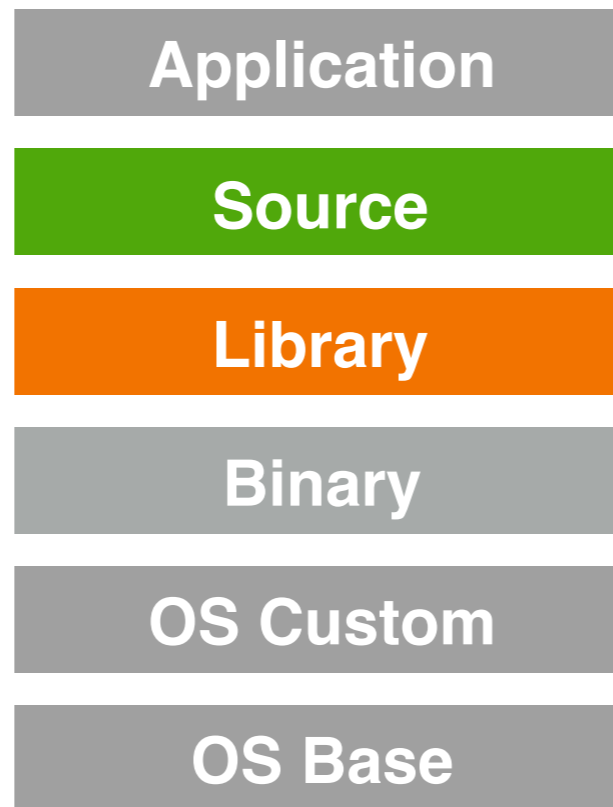
  **Joe**
Developer

  **Bob**
Developer

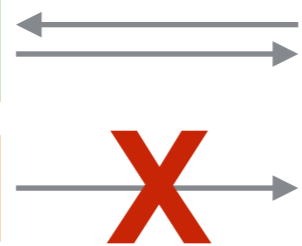
  **Jack**
SysAdmin

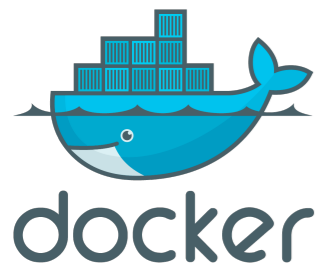


MyApp 1.2

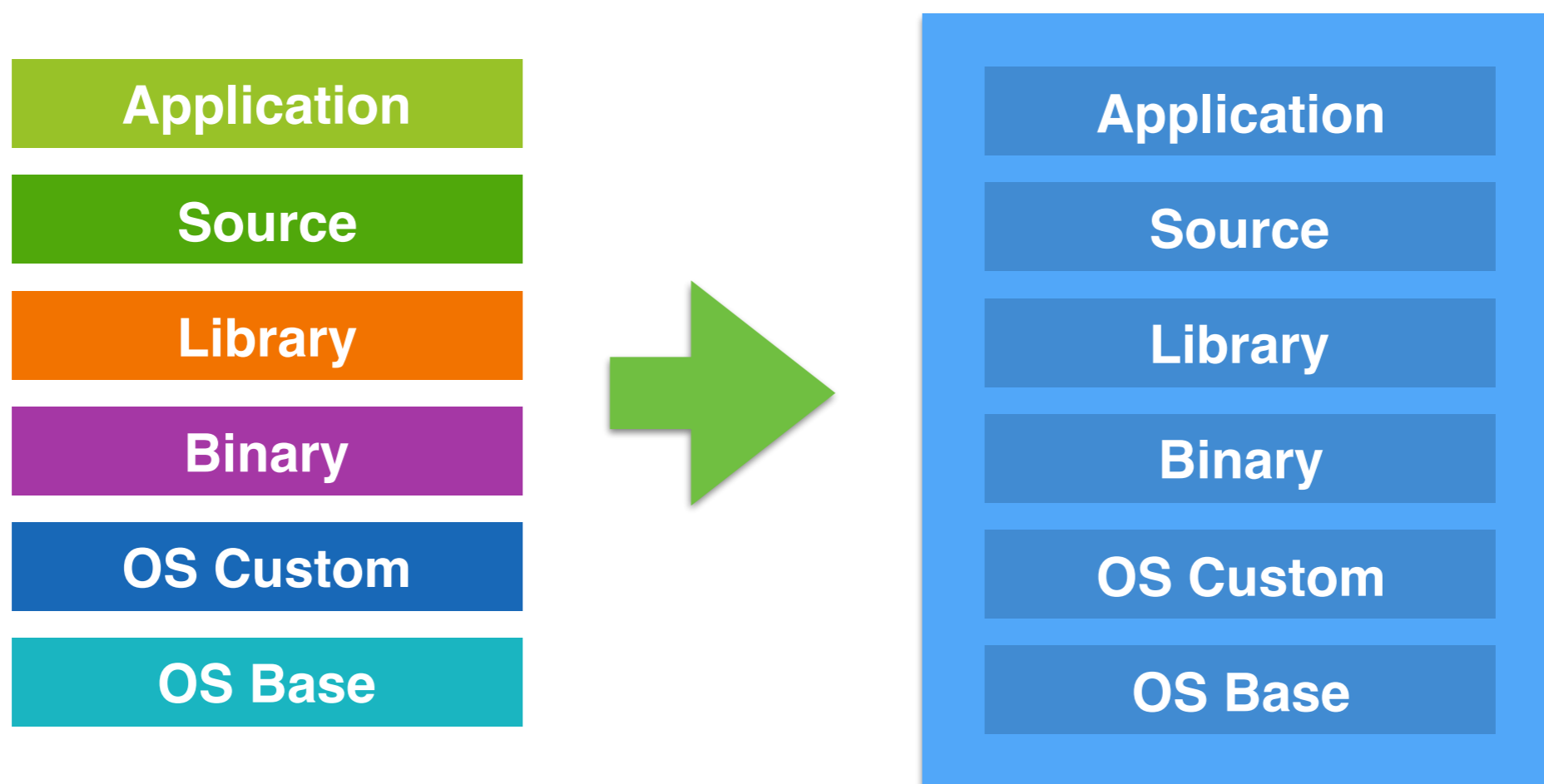


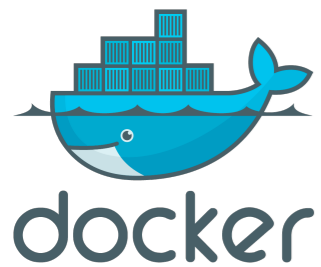
MyApp 1.2





From stack to image





DevOps



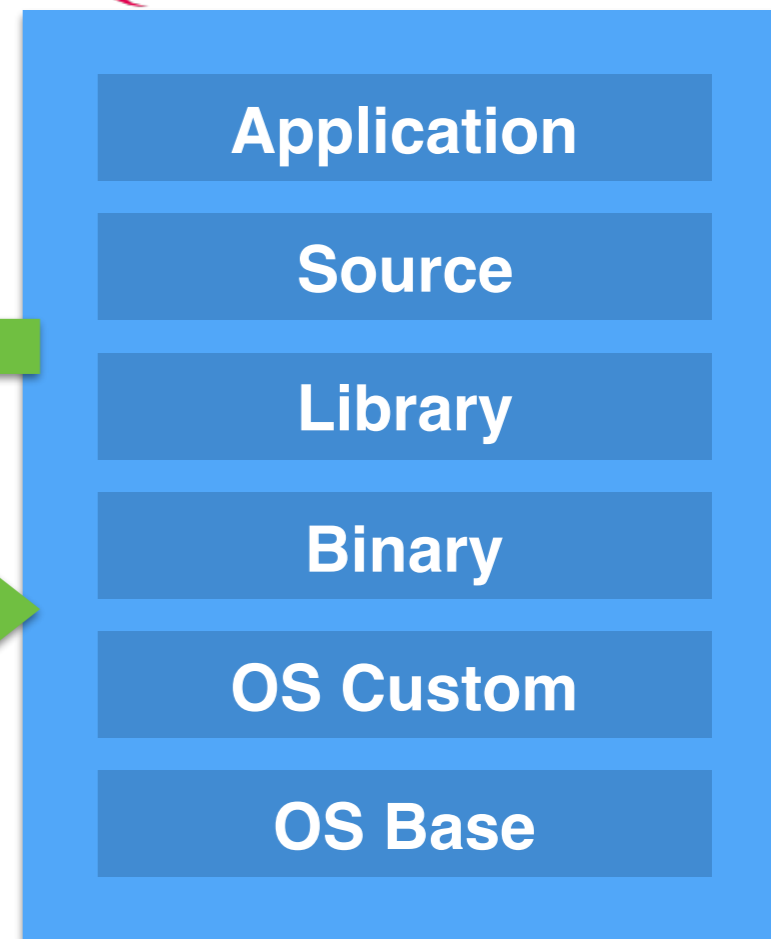
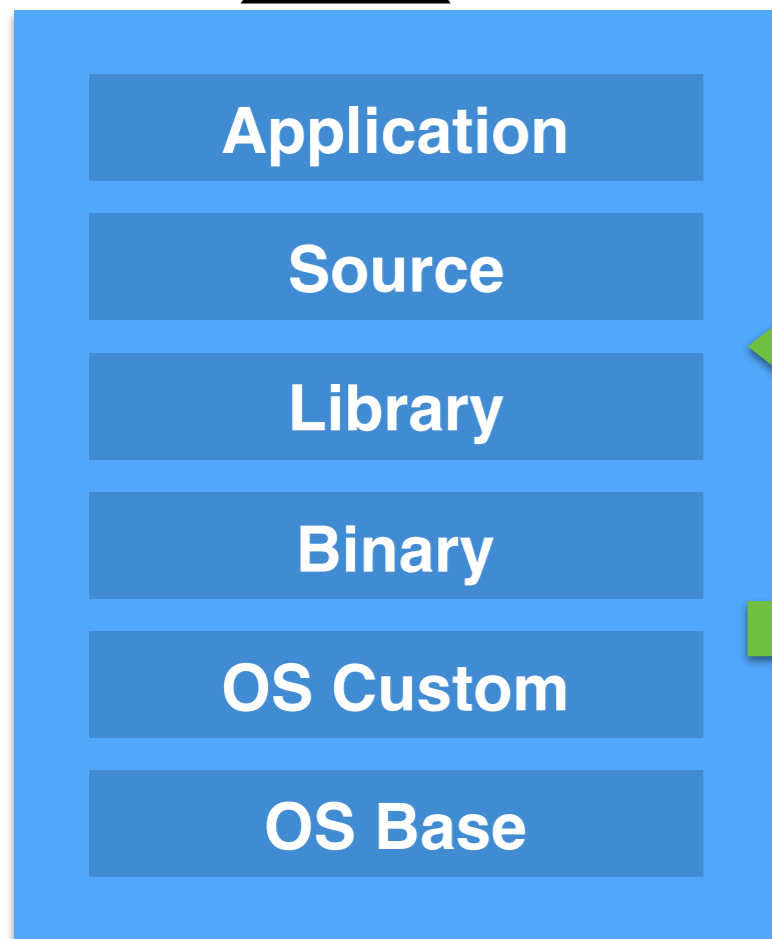
Joe
Developer

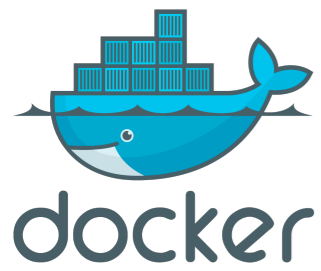


Bob
Developer

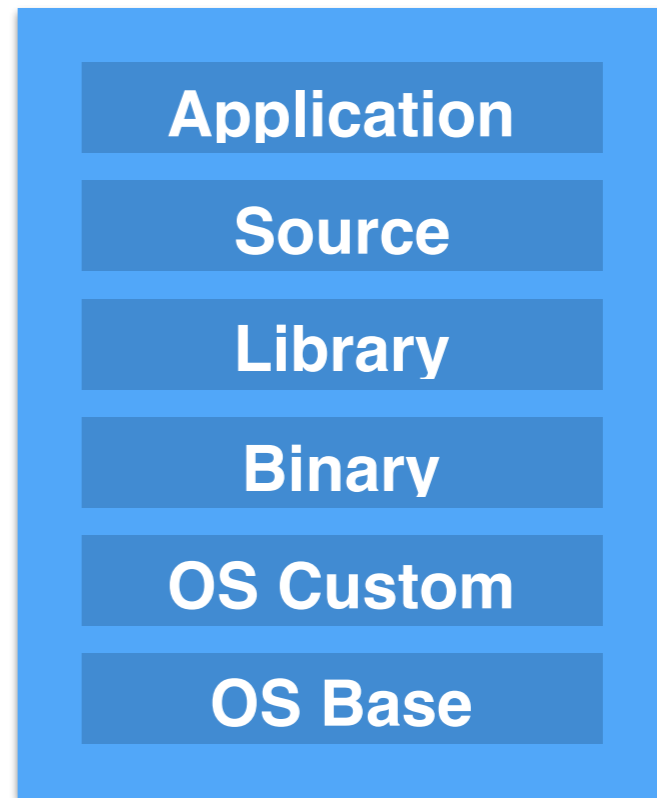
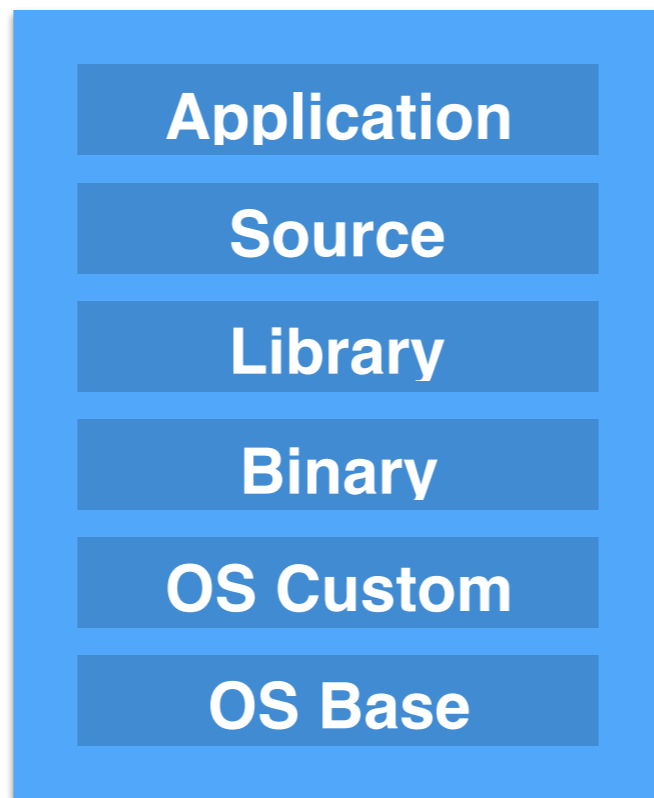
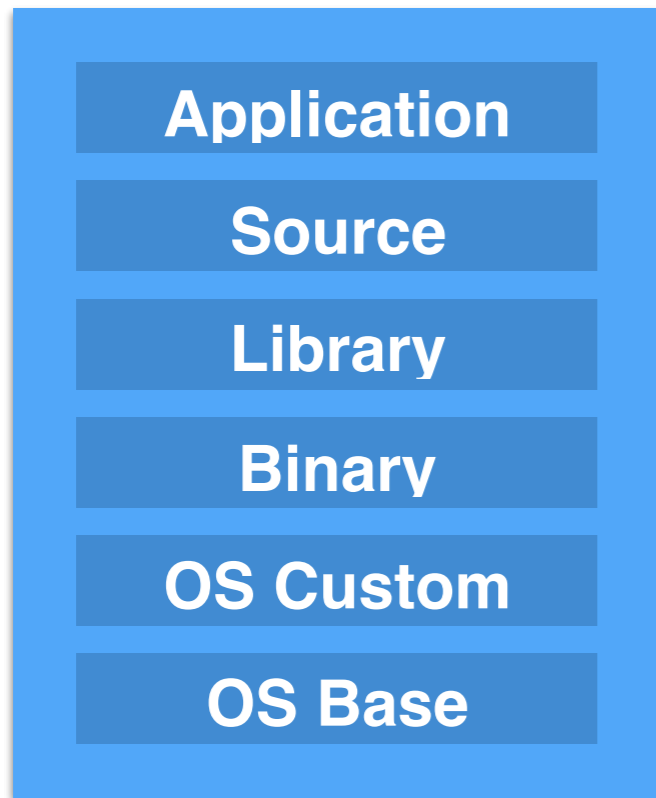


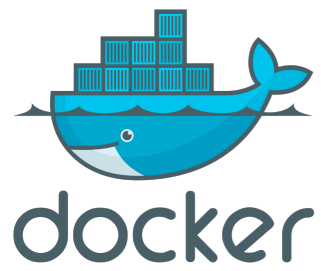
Jack
SysAdmin



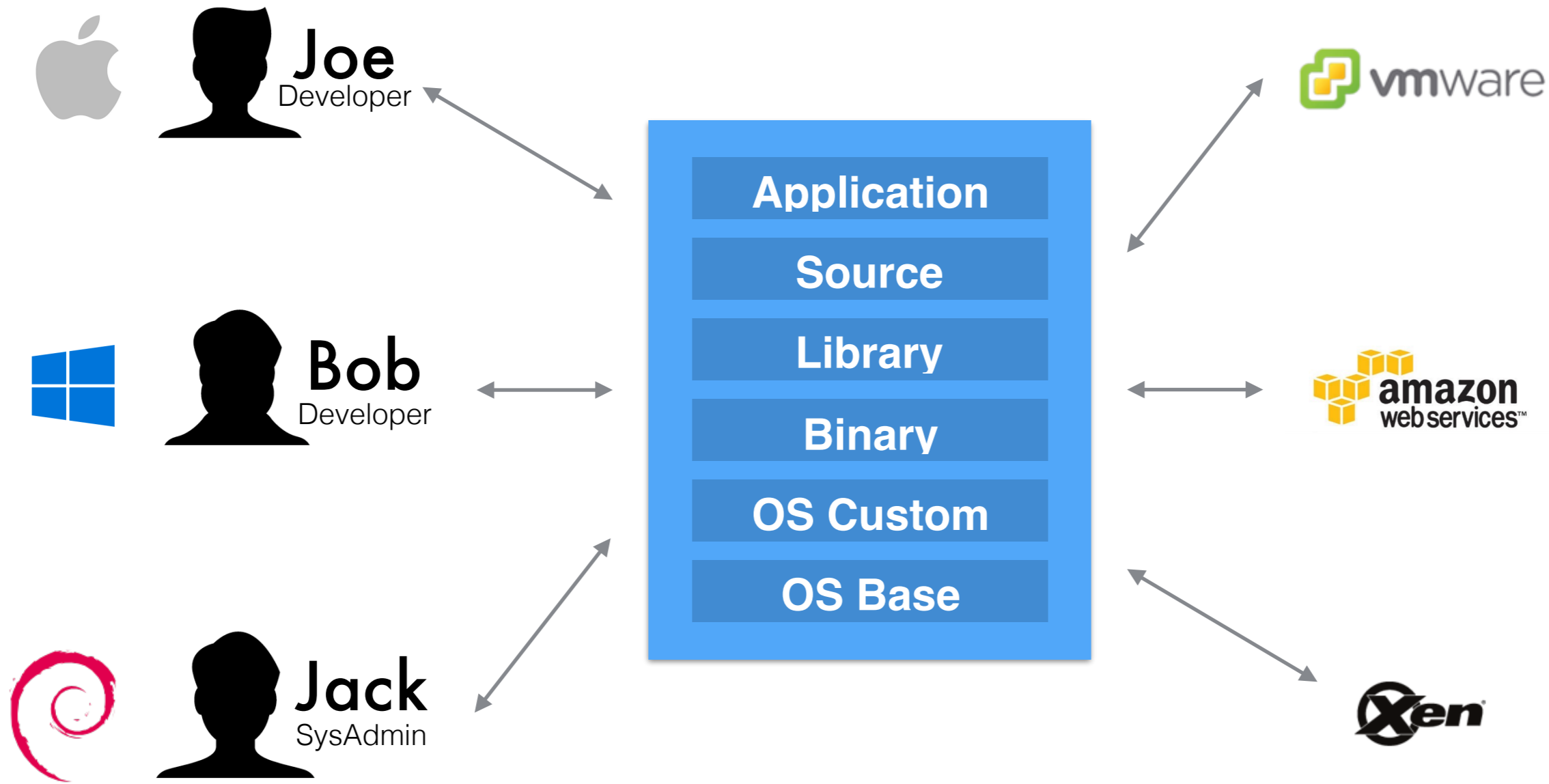


Jack
SysAdmin

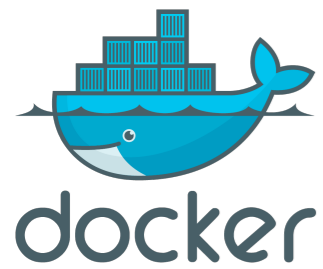




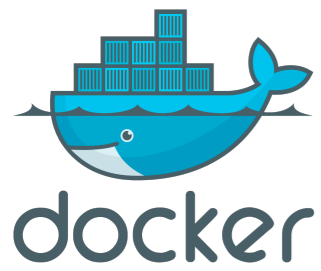
Centralized



Public or Private Repository

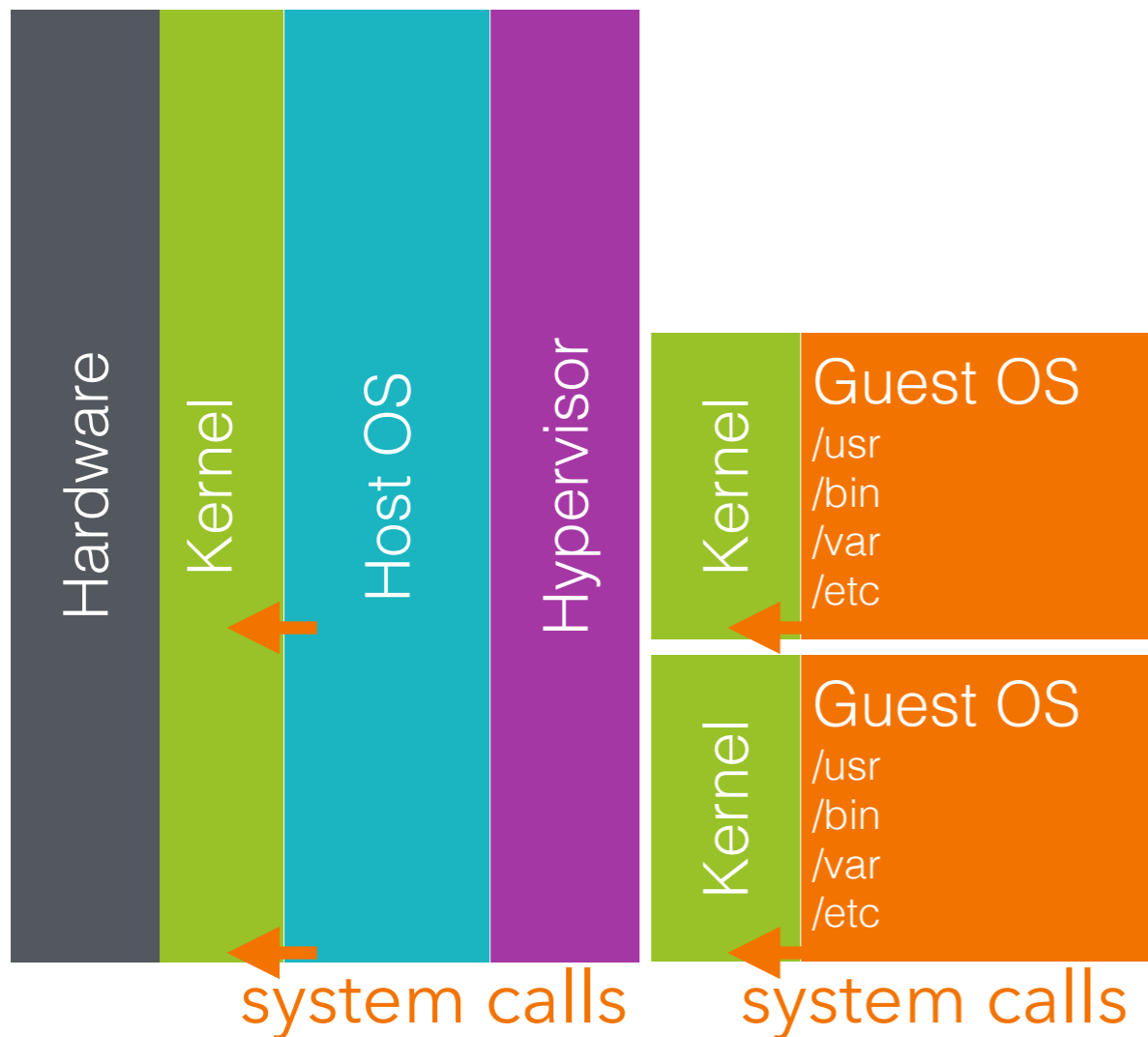


Container IS NOT a Virtual Machine

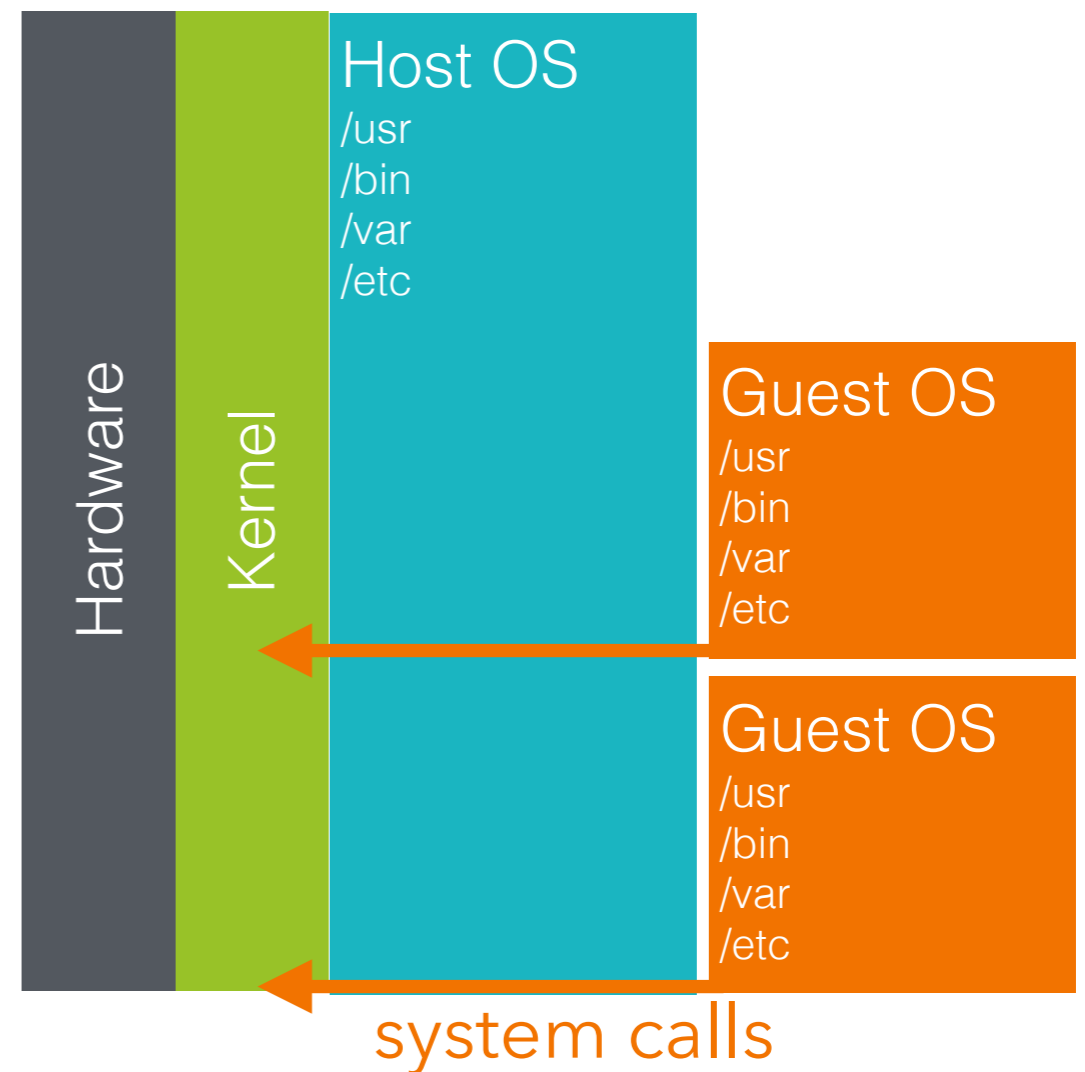


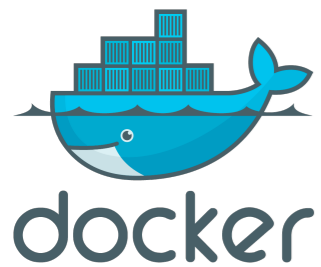
Overhead

Virtual Machine



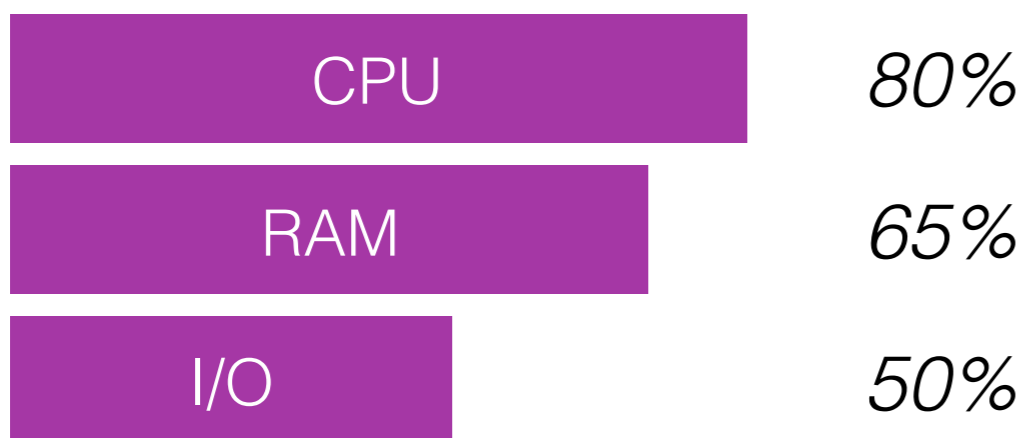
Docker Container



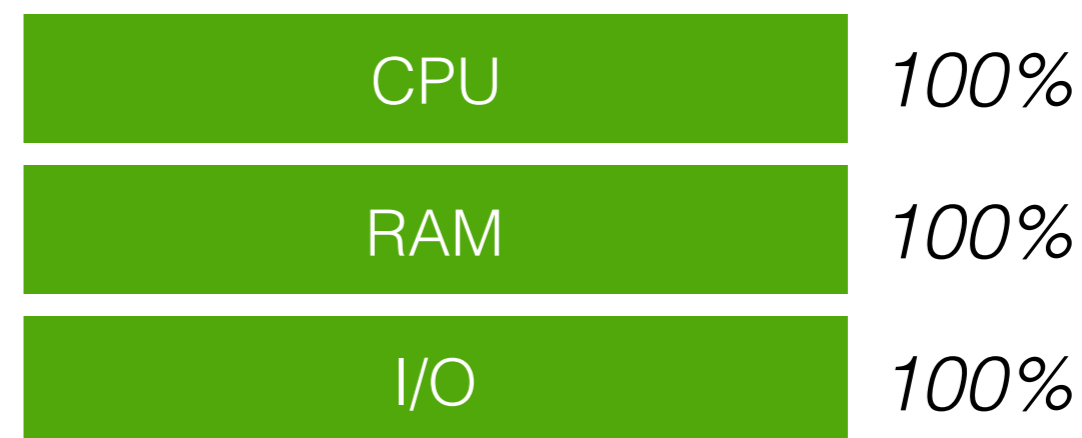


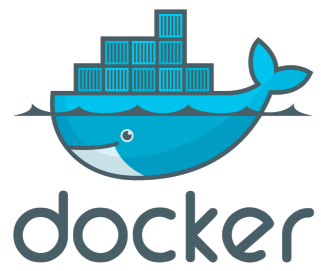
Performance

Virtual Machine



Docker Container





Size

Virtual Machine

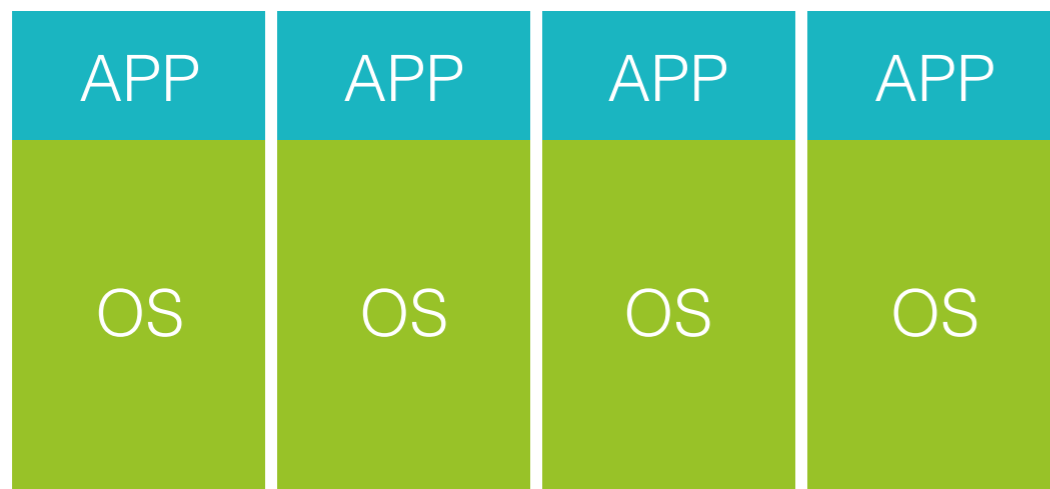


Image Size (OS Stack): **1GB**
Application Size: **100MB**

4 Running Applications: 4,4 GB

Docker Container

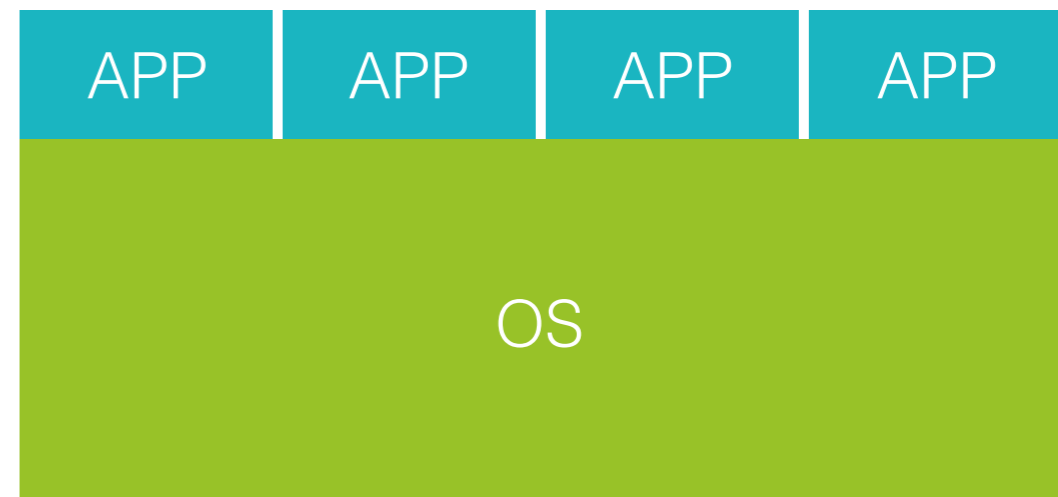
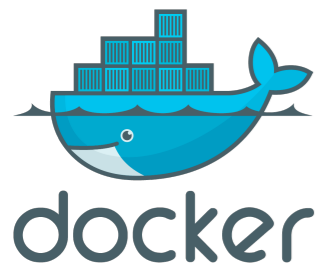


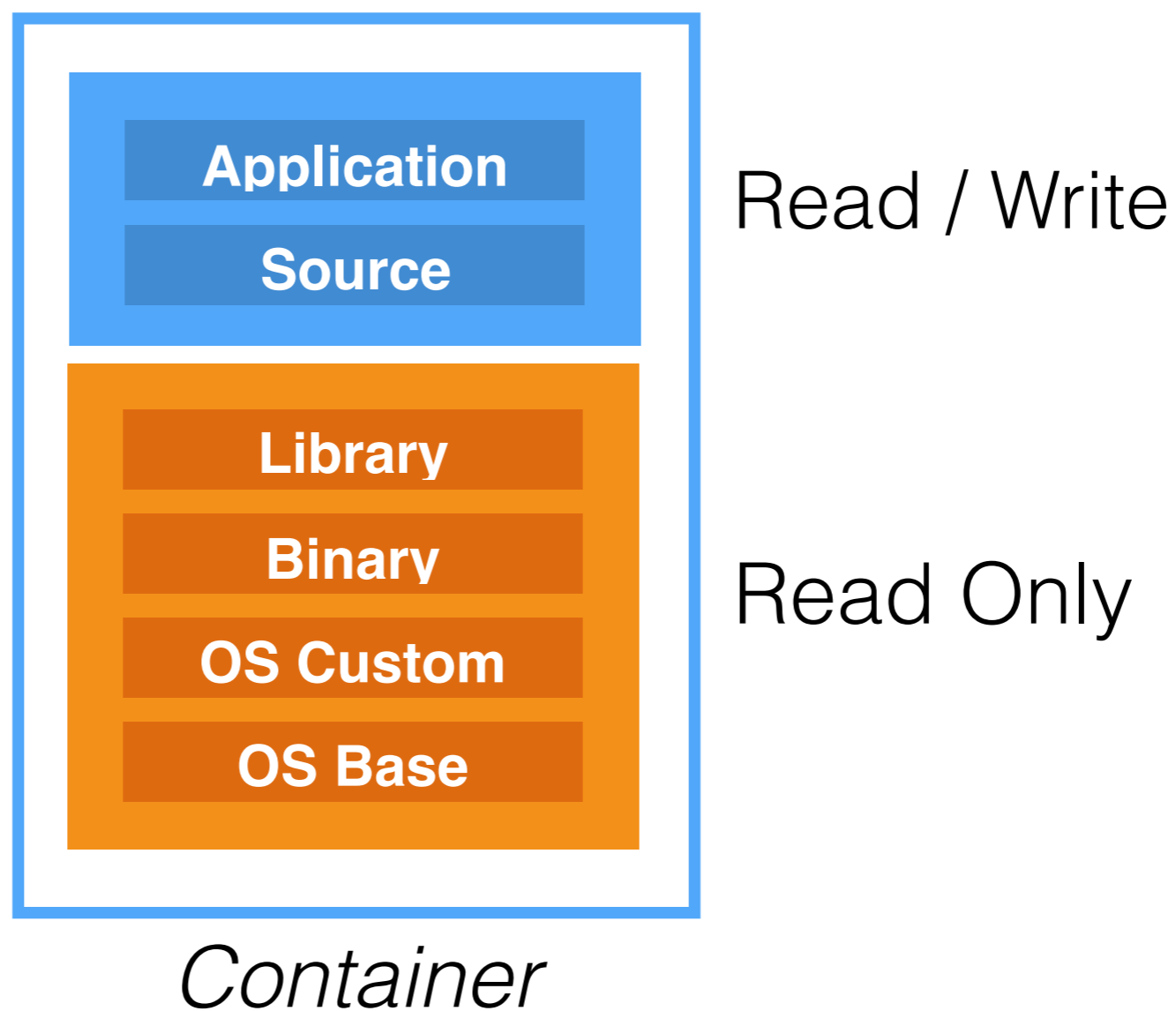
Image Size (OS Stack:): **1GB**
Application Size: **100MB**

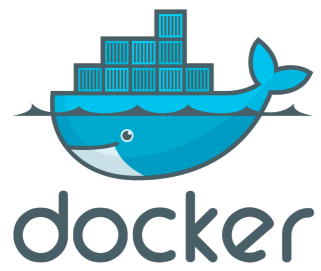
4 Running Applications: 1,4 GB



AuFS

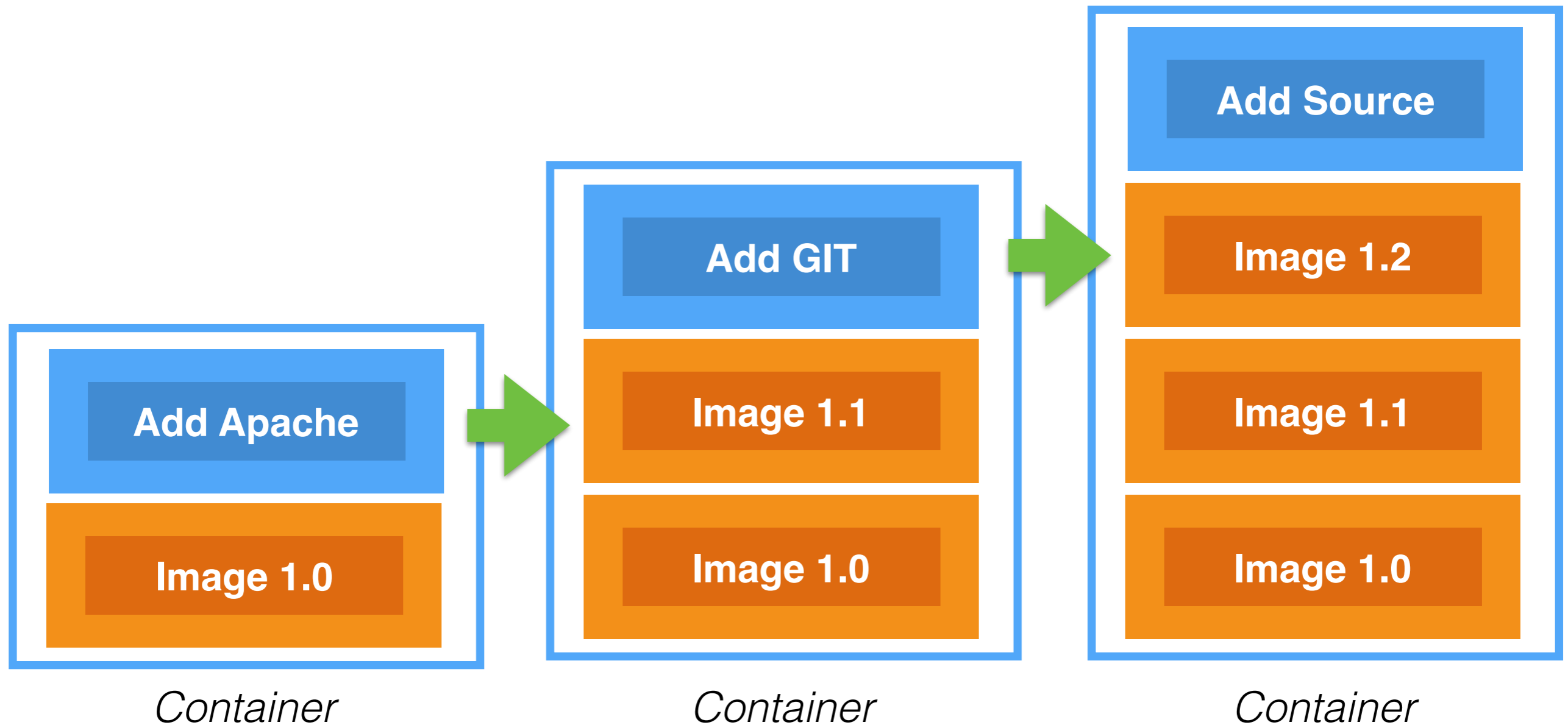
Layered Filesystem

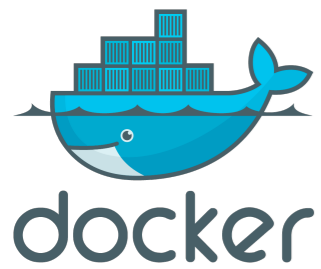




AuFS

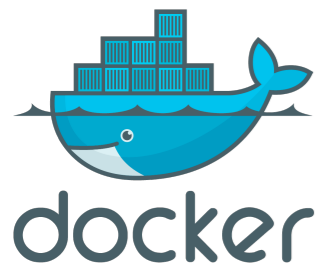
Layered Filesystem





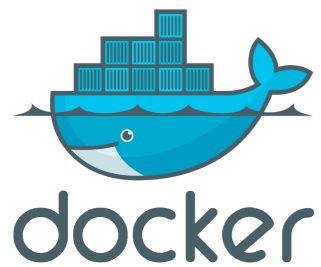
Cos'è Docker?

- Packaging System
Creazione e gestione delle immagini
- Container Engine
Ambienti up & running logicamente separati
- Container Repository
Push & Pull delle immagini e controllo di versione



Open Platform

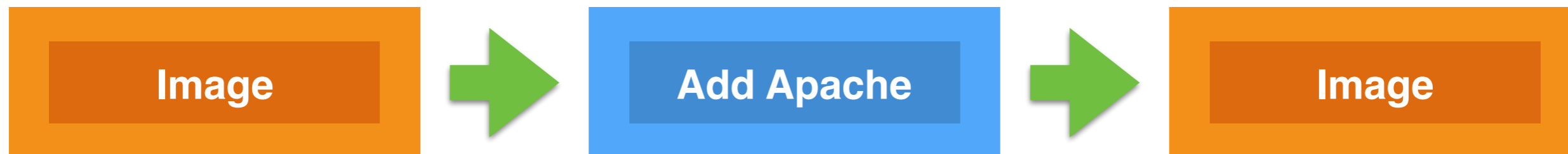
- Linux Support only
- Apache License / Free to use
- Open Source / Github



Packaging System

Run Container

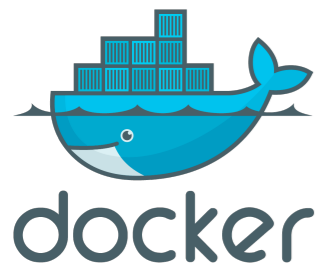
Commit



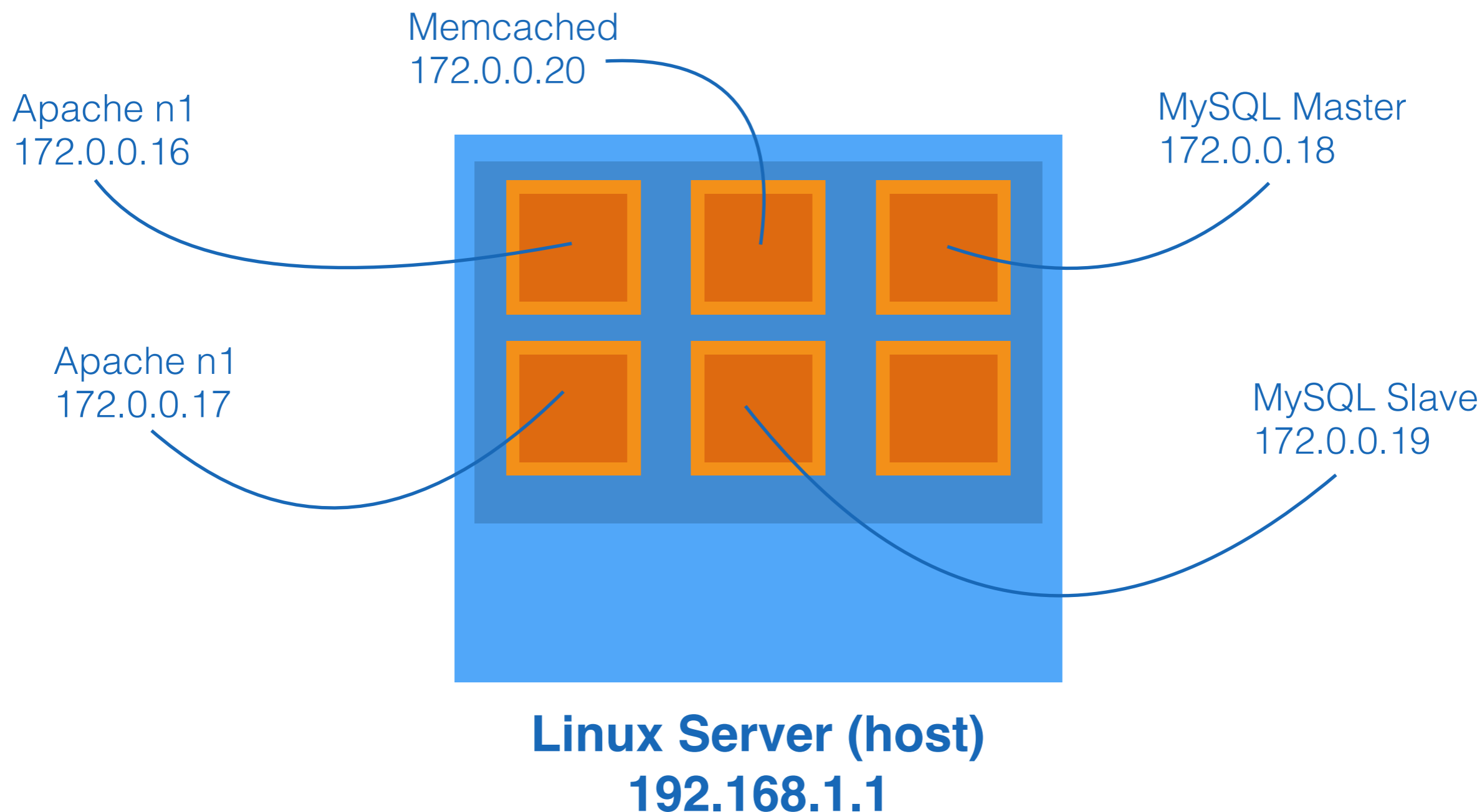
Pull Image

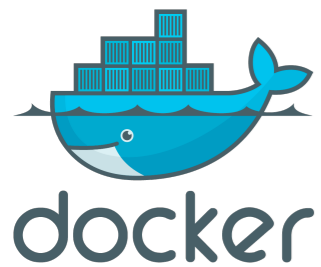
Modify Container

Push Image

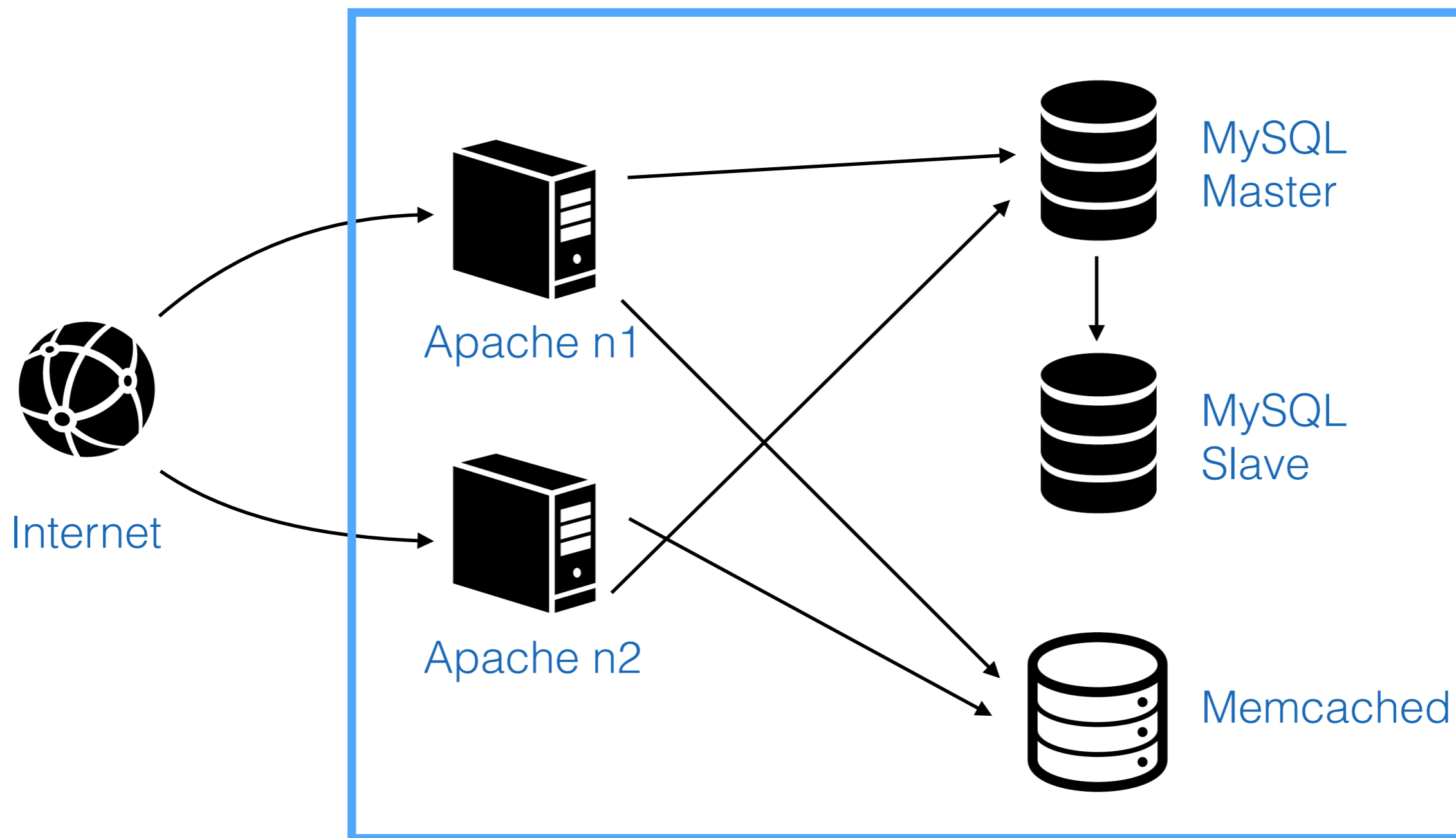


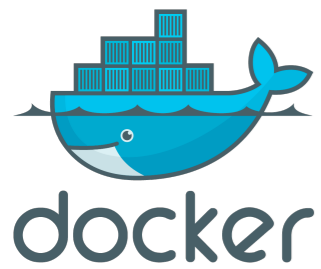
Container Engine





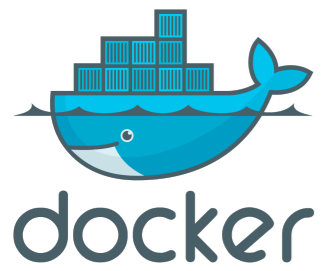
Container Engine





Container Repository

hub.docker.com



The End

Thanks!

