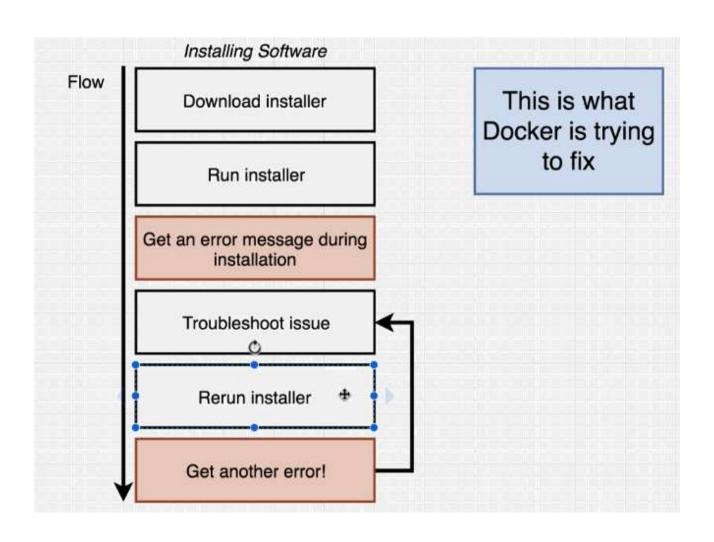
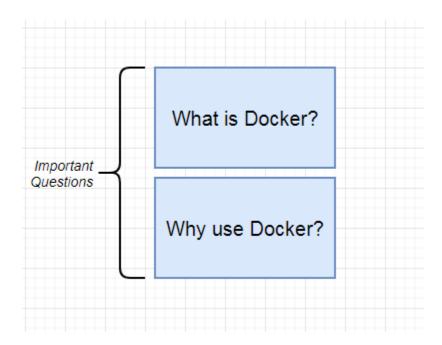
Docker

Ravindra Kudache

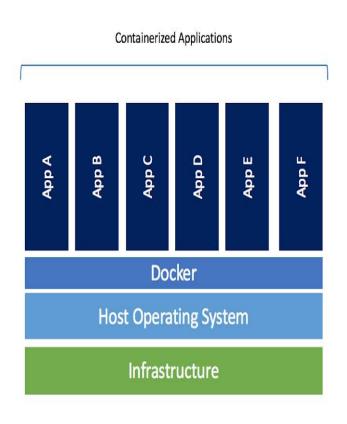
Installing Software

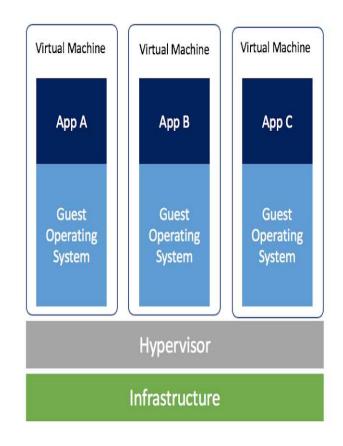


Docker

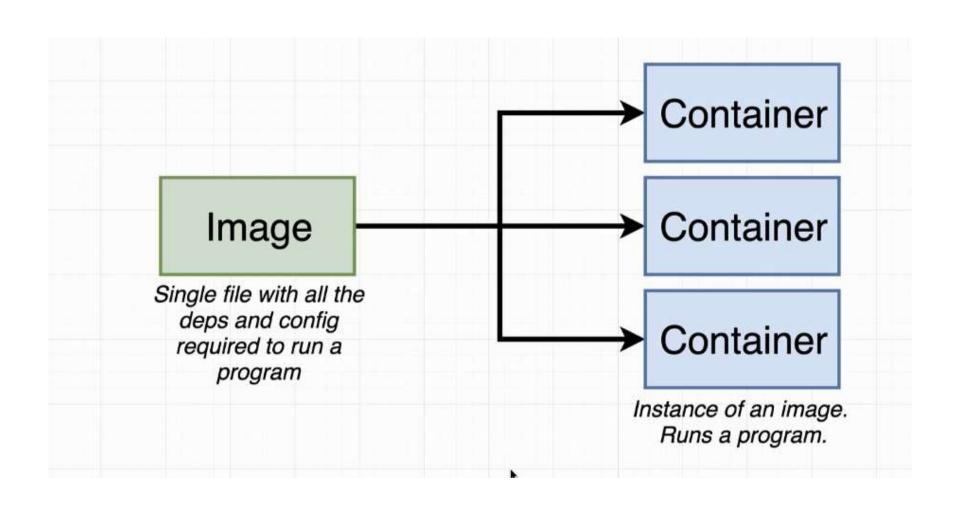


VM Vs Containerized

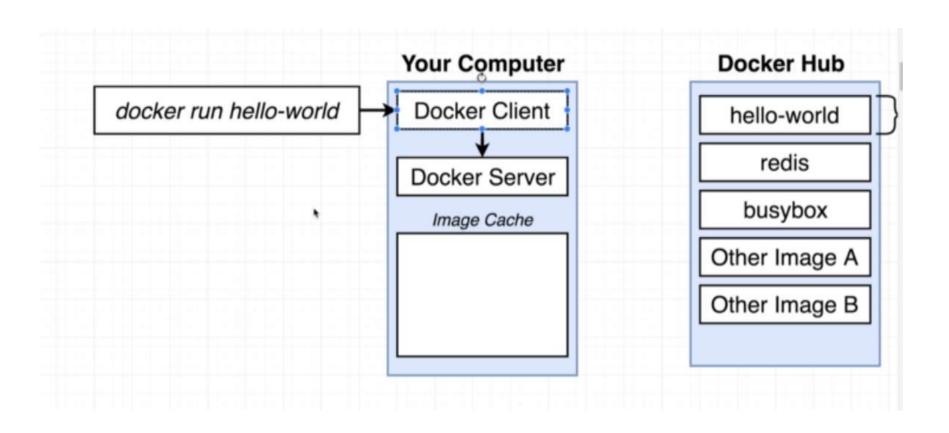




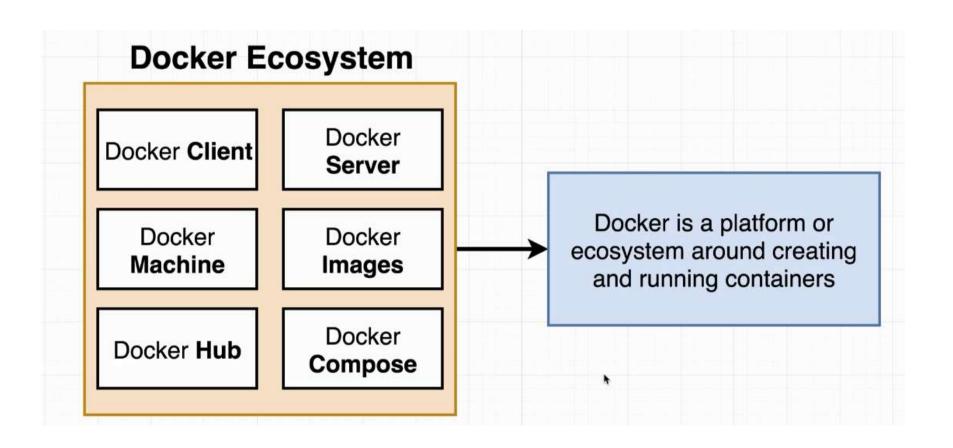
What is Docker

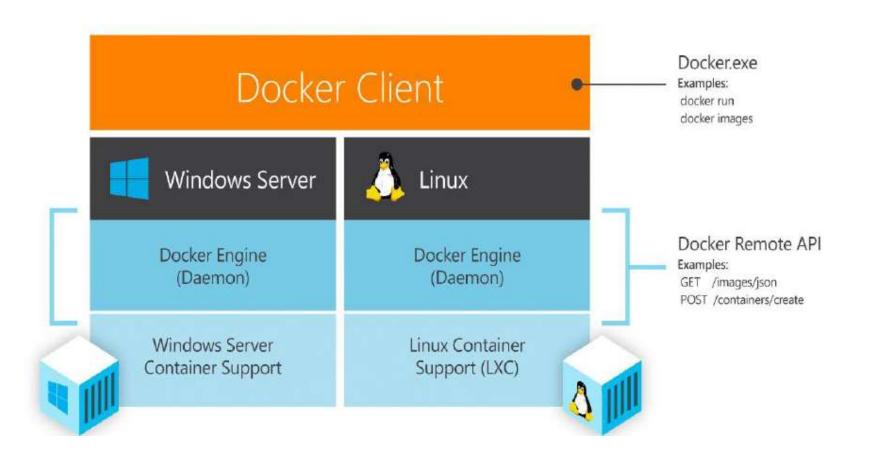


What is Docker



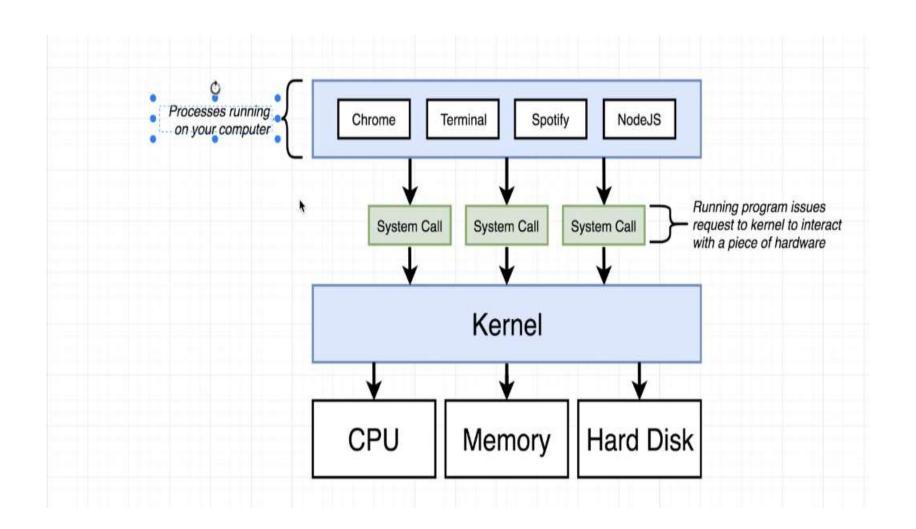
Docker Ecosystem



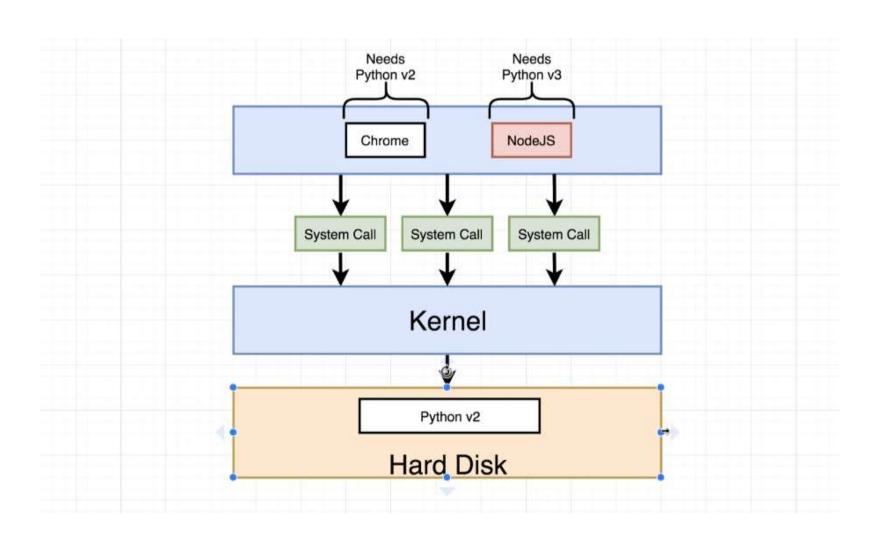


Docker Engine

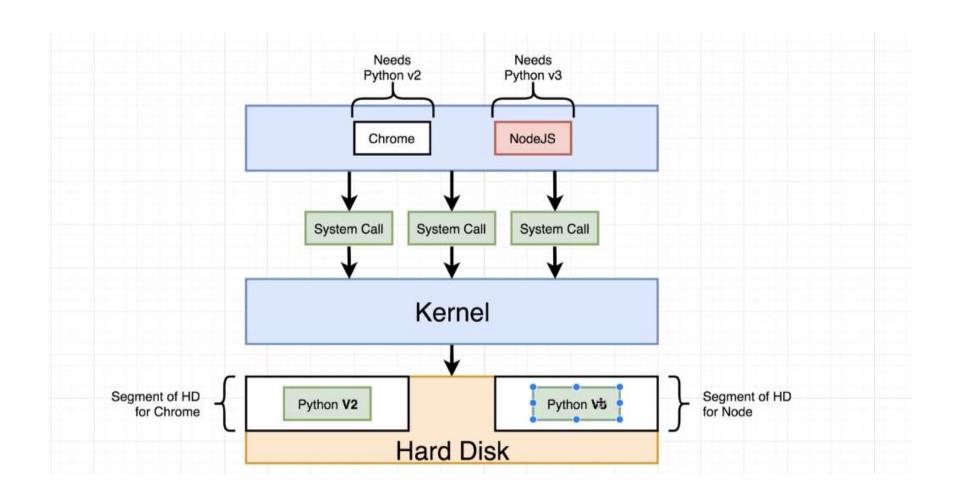
- Docker Demon
 - Docker demon listen for All API request and manages all Docker objects (Discussed in next slide)
- Docker Client
 - Docker client makes request to Docker demon for managing Docker objects
- Client types
 - Rest client /Docker SDK
 - ► CII
 - User Interface
- Docker Registry
 - All Docker images are store in Docker registry
- On client request, Docker demon pulls Docker images from registry and creates various Docker objects



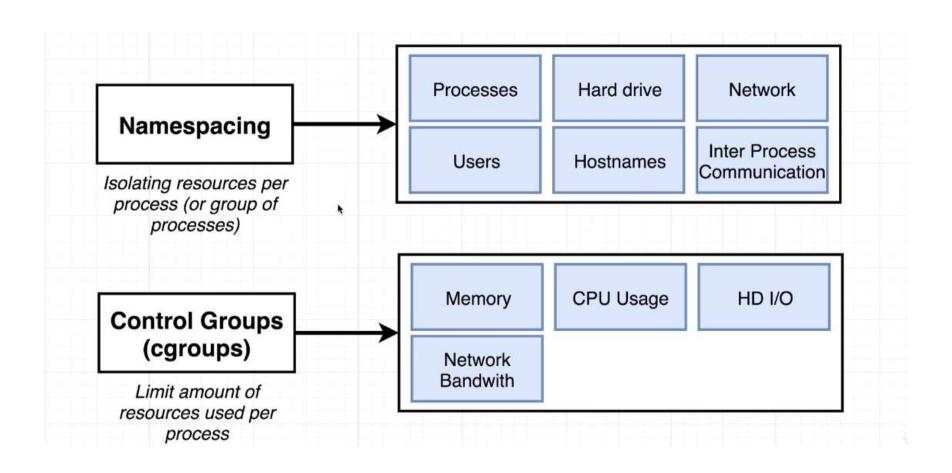
Name Spacing



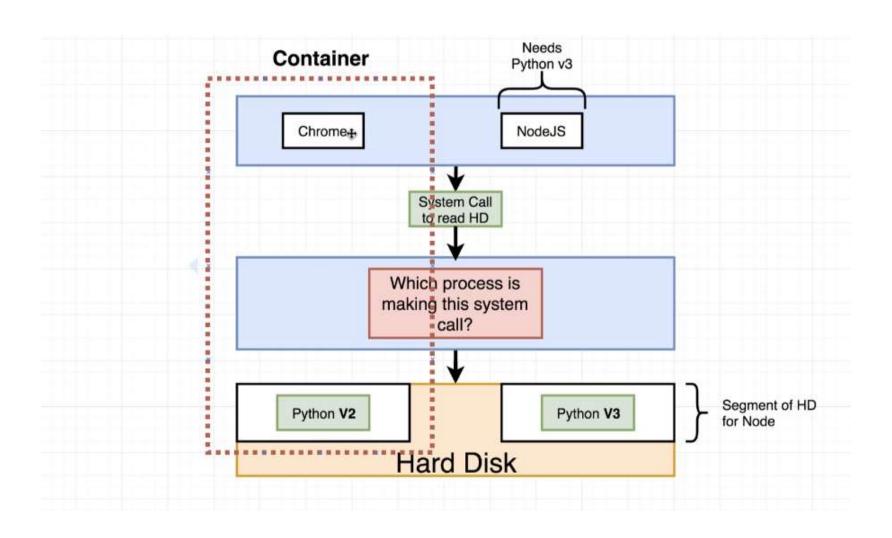
Name spacing

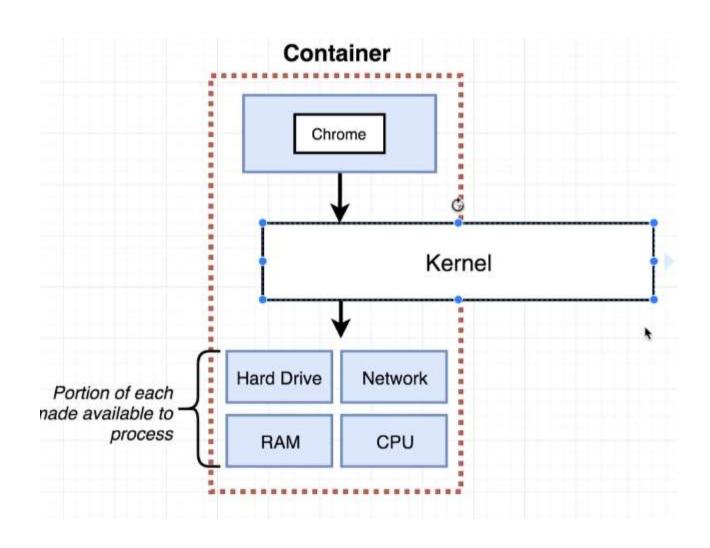


Namespacing

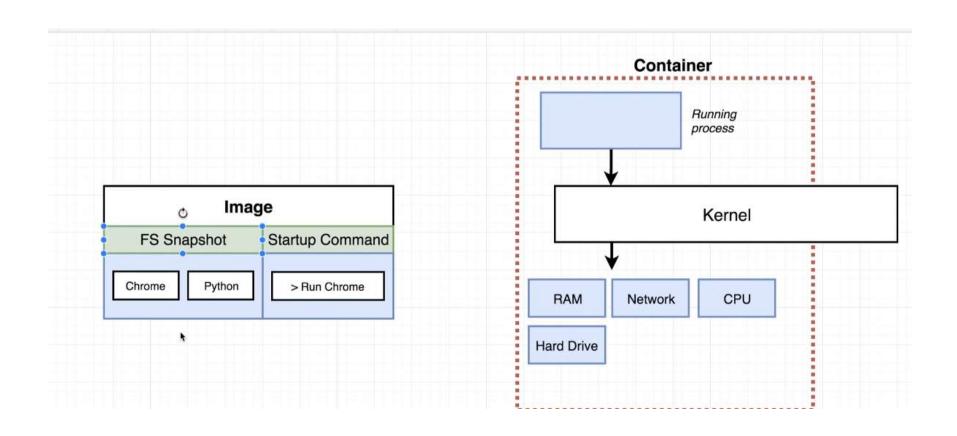


Namespacing





Container





Business model

Microservices

Dev

Infrastructure as Code

Container Design



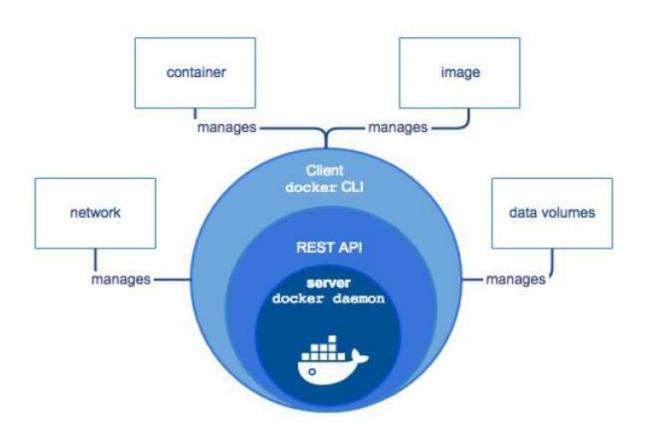
Docker CE Vs Docker EE

▶ High level differences between Docker CE and Docker EE

Docker CE	Docker EE
For Developer and small organizations	For business critical production apps
Free	Subscription model
Stable version (every 3 month)	Stable version (every 3 month)
Edge version (every month), with cutting edge features	Each version maintained at least for one year Additional Enterprise features (Management, security)

Docker Container Basic

- Docker is a platform for developers and sysadmins to develop, deploy, and run applications with containers
- The use of containers (Linux & Windows) to deploy applications is called containerization
- Containers are not new, but their use for easily deploying applications is
- Containerization is increasingly popular because containers are:
 - Flexible: Even the most complex applications can be containerized.
 - Lightweight: Containers leverage and share the host kernel.
 - Interchangeable: You can deploy updates and upgrades on-the-fly.
 - Portable: You can build locally, deploy to the cloud, and run anywhere.
 - Scalable: You can increase and automatically distribute container replicas.
 - Stackable: You can stack services vertically and on-the-fly.



The End