

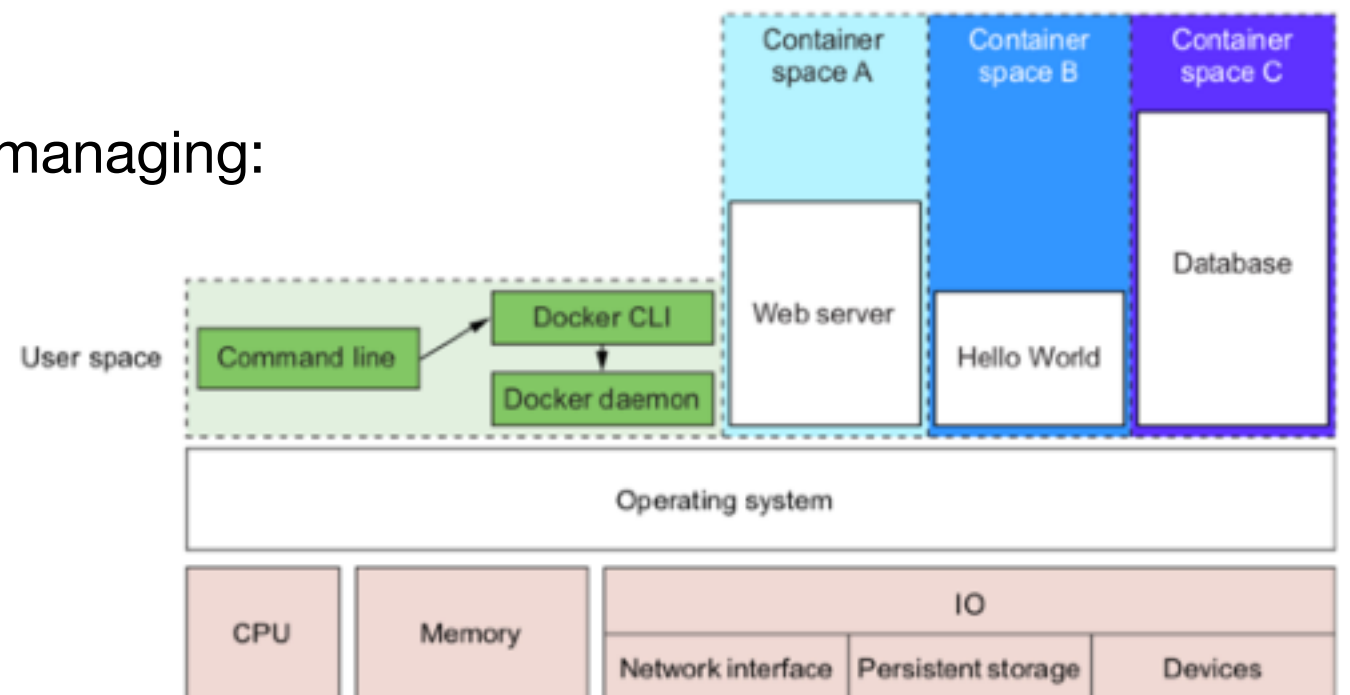
what is it?

Docker provides a way to run processes in containers, running on a host, isolated with respect to:

- PID - manages its own pid list starting from 1
- FS - access through attached volumes
- Network - access through “net” policies and docker0 interface
- IPC
- Users - manages its own users and groups
- Memory/cpu resources - to an extent! :)

Docker software consists of:

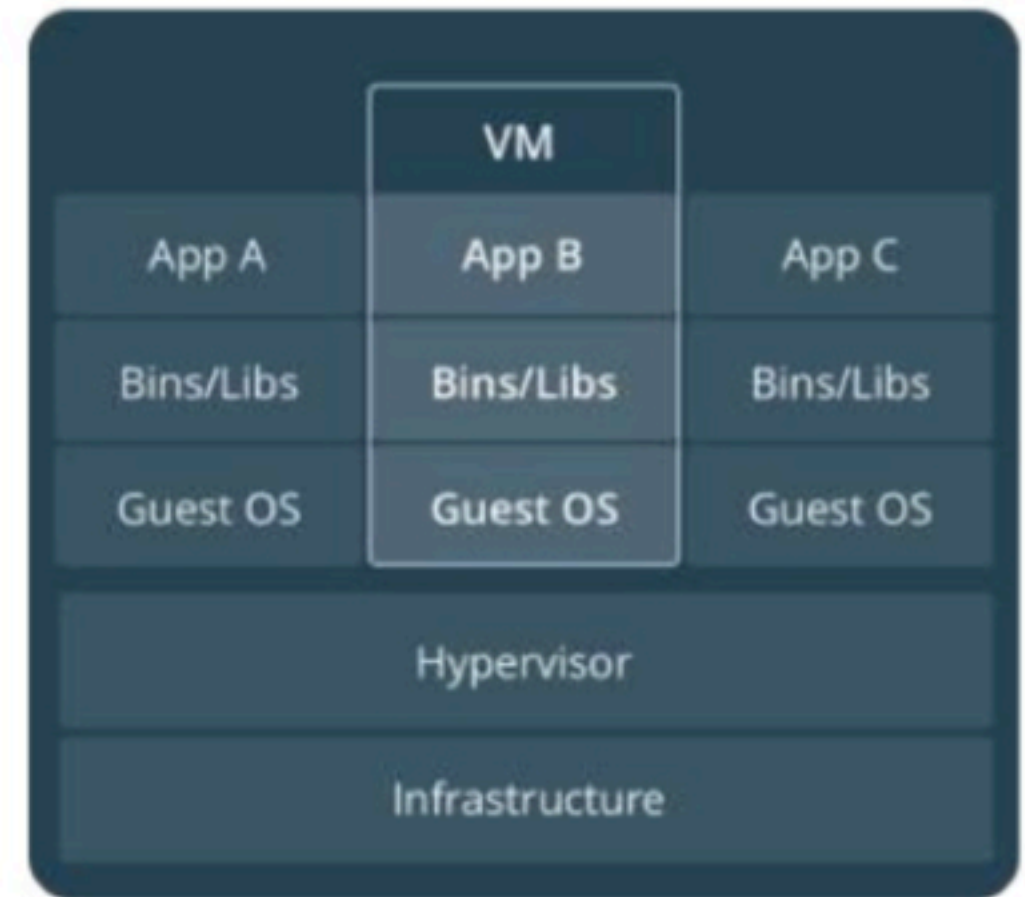
- (Engine) Daemon process running on a host managing:
 - Running of container processes
 - The above set of isolations
 - Orchestration and scheduling of services
- CLI program for interacting with a daemon



Comparing Containers and VMs



Containers are an app level construct



VMs are an infrastructure level construct to turn one machine into many servers