

Golang Paris Meetup - 12/01/2014








Introduction to containers and Docker

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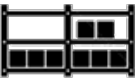





@folie_a

Why ?

The Matrix From Hell

Static website	?	?	?	?	?	?	?
Web frontend	?	?	?	?	?	?	?
Background workers	?	?	?	?	?	?	?
User DB	?	?	?	?	?	?	?
Analytics DB	?	?	?	?	?	?	?
Queue	?	?	?	?	?	?	?
							

Another Matrix From Hell
























































	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
							

Solution

The intermodal container



Solved!

Solution to the deployment problem

The linux container



Solved!

Static website							
Web frontend							
Background workers							
User DB							
Analytics DB							
Queue							
							

High level approach

Lightweight VM

- own process space
- own network interface
- can run stuff as root
- can have it's own /sbin/init

Advantages

- 1000x faster than a VM
- Easier to transfer and move efficiently
- Containers have no overhead

Low level approach

chroot on steroids

- Can also not have its own /sbin/init
- Container = isolated process(es)
- Share kernel with host
- No device emulation

"Application container"