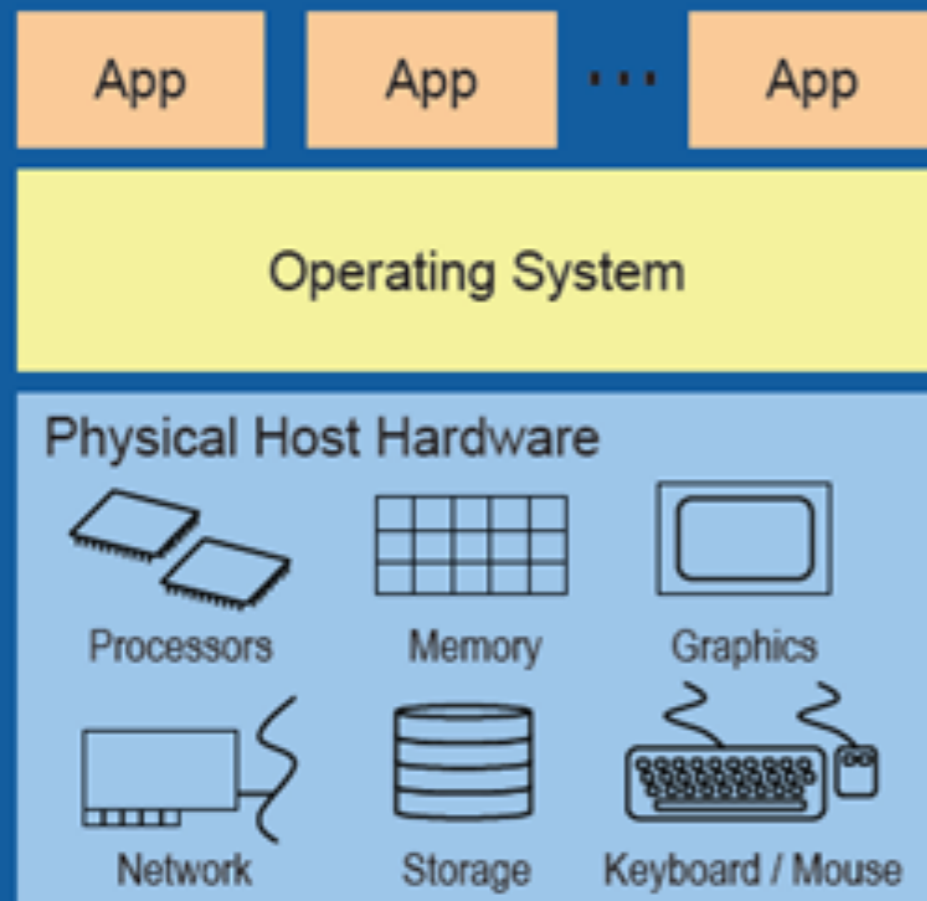


# OSX VIRTUALISATION & DOCKER, INTRODUCTION

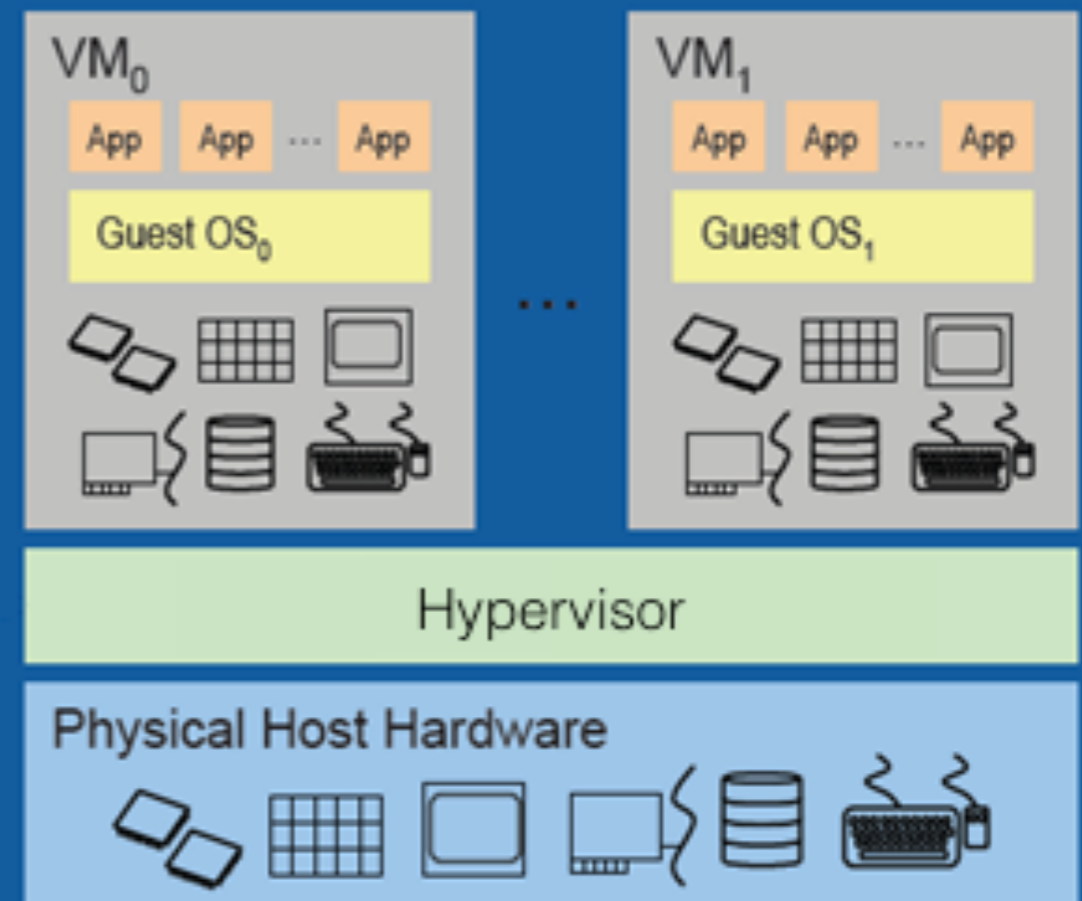
19/03/15



# VIRTUALISATION



**Without VMs:** Single OS owns all hardware resources



**With VMs:** Multiple OSes share hardware resources

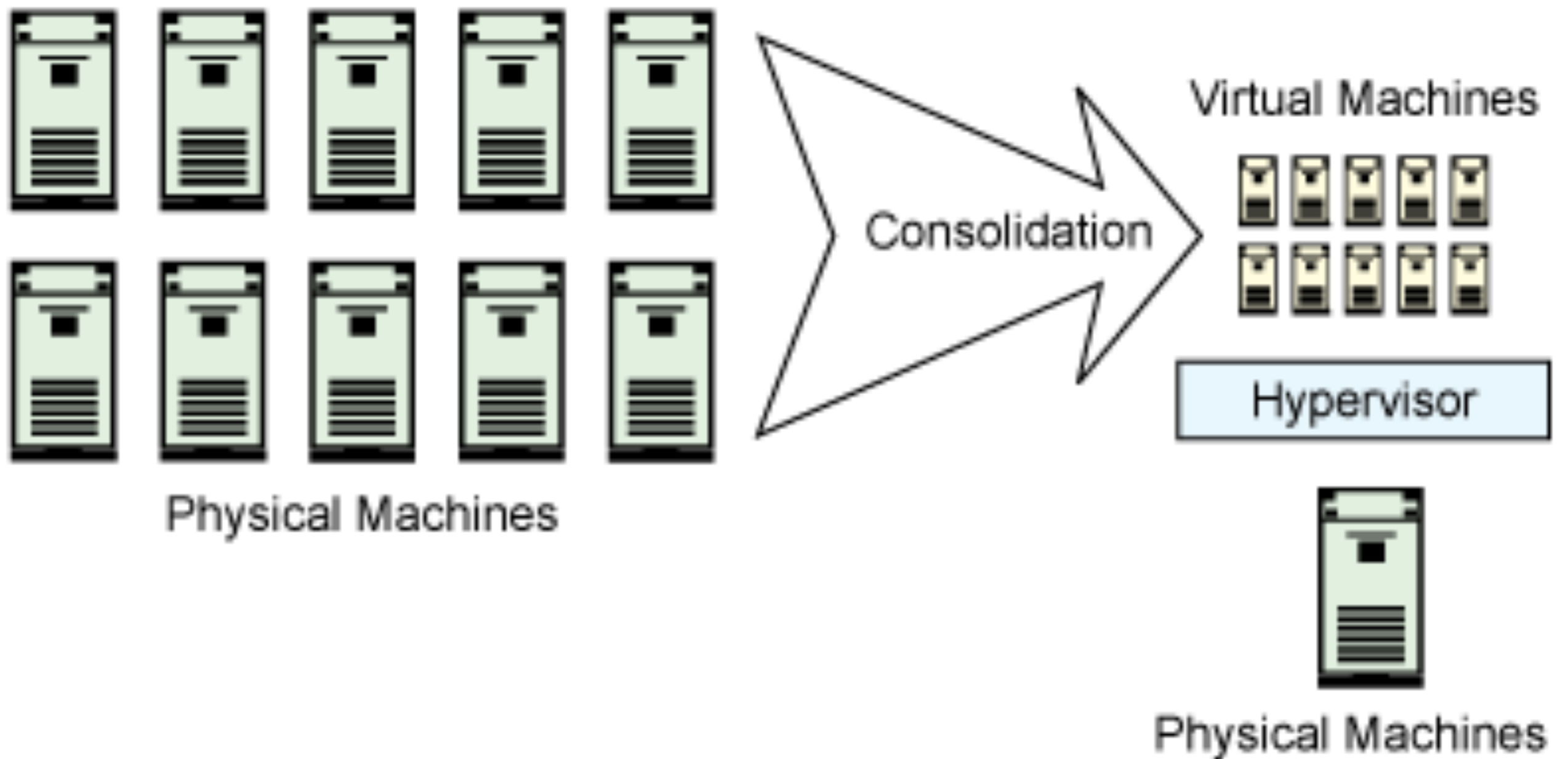


# VIRTUALISATION

- Bringing the Casper Suite to Life with Virtual Test Environments: <https://www.youtube.com/watch?v=TsSbAxQAKZM>
- AutoDMG: <https://github.com/MagerValp/AutoDMG/releases>
- vFuse: <https://github.com/chilcote/vfuse>



# VIRTUALISATION



# VIRTUALISING OSX



# VIRTUALISING OSX

From Section 2B, in: <http://images.apple.com/legal/sla/docs/OSX1010.pdf>

“(iii) to install, use and **run up to two (2) additional copies** or instances of the Apple Software within virtual operating system environments on **each Mac Computer** you own or control that is already running the Apple Software, for **purposes of: (a) software development; (b) testing during software development; (c) using OS X Server; or (d) personal, non-commercial use.**

The grant set forth in Section 2B(iii) above **does not permit you to use** the virtualized copies or instances of the Apple Software **in connection with service bureau, time-sharing, terminal sharing or other similar types of services.”**



# DOCKER

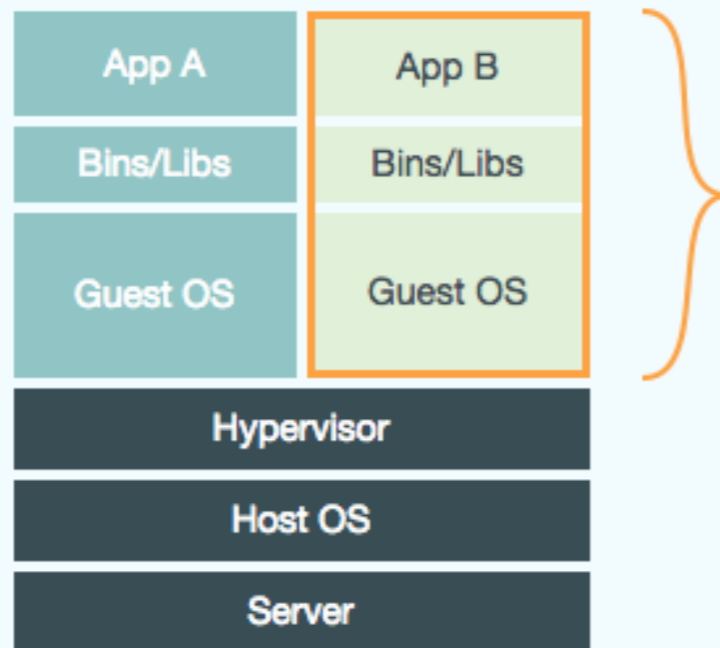
Mostly pinched from a Macbrained's February Meet-Up @ Facebook;

Introducing Docker to Mac Management – Nick McSpadden, Schools of the Sacred Heart

<http://www.slideshare.net/macbrained/introducing-docker-to-mac-management-nick-mcspadden>

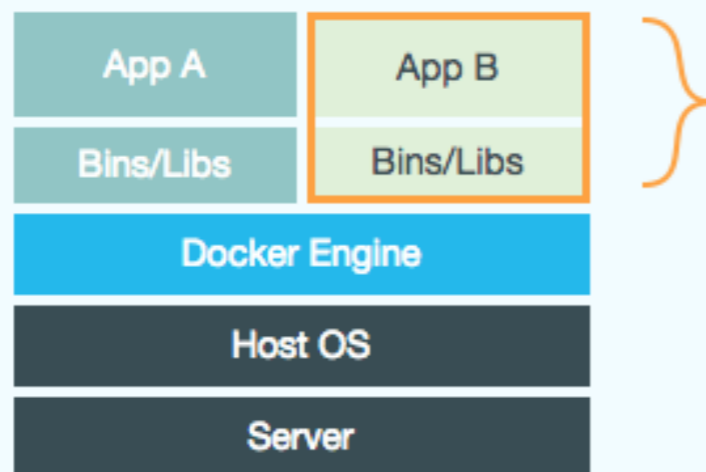


# DOCKER



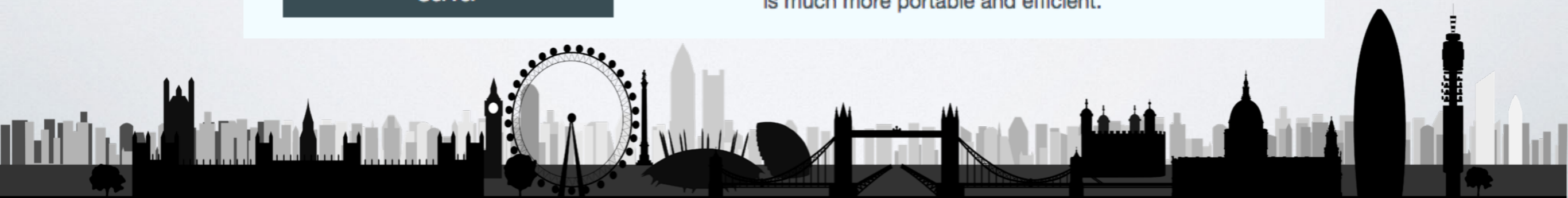
## Virtual Machines

Each virtualized application includes not only the application - which may be only 10s of MB - and the necessary binaries and libraries, but also an entire guest operating system - which may weigh 10s of GB.



## Docker

The Docker Engine container comprises just the application and its dependencies. It runs as an isolated process in userspace on the host operating system, sharing the kernel with other containers. Thus, it enjoys the resource isolation and allocation benefits of VMs but is much more portable and efficient.





**What's with all this Linux crap?**  
**How does this involve Macs?**

# DOCKER

Sal

Munki / MunkiWebAdmin / MunkiReport

Reposado

Puppet

BSDPy (NetBoot)

Casper

Crypt

Spirit (multi-platform DeployStudio)



# DOCKER

- Nicks blog: <http://osxdominion.wordpress.com>
- “MacAdmins” organisation on Docker hub: <https://registry.hub.docker.com/repos/macadmins/>
- Docker tutorial: <https://www.docker.com/tryit/>
- The Docker Book: <http://www.dockerbook.com/>



<http://tinyurl.com/macmule>

