

How the World's Best Companies Run Containers in Production

——Mesosphere Datacenter Operating System (DCOS)

Michael Jin, Mesosphere Morten Kuhl, Mesosphere



Agenda:

From Monolithic to Microservices

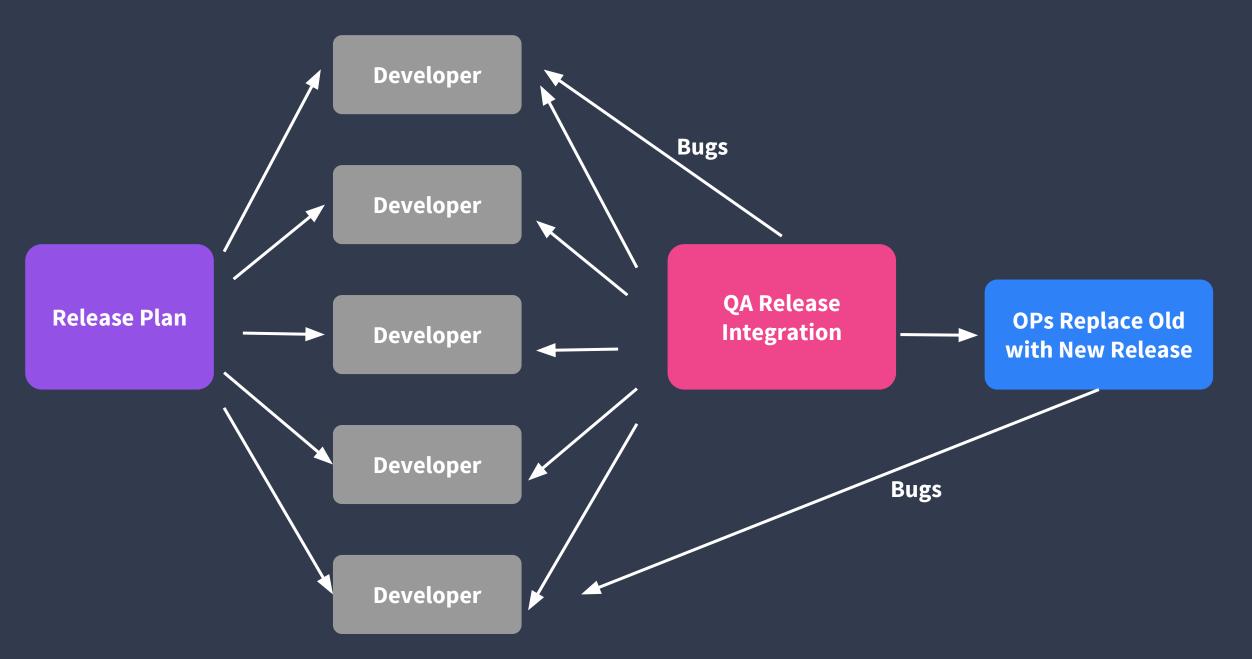
Rise of Containerization

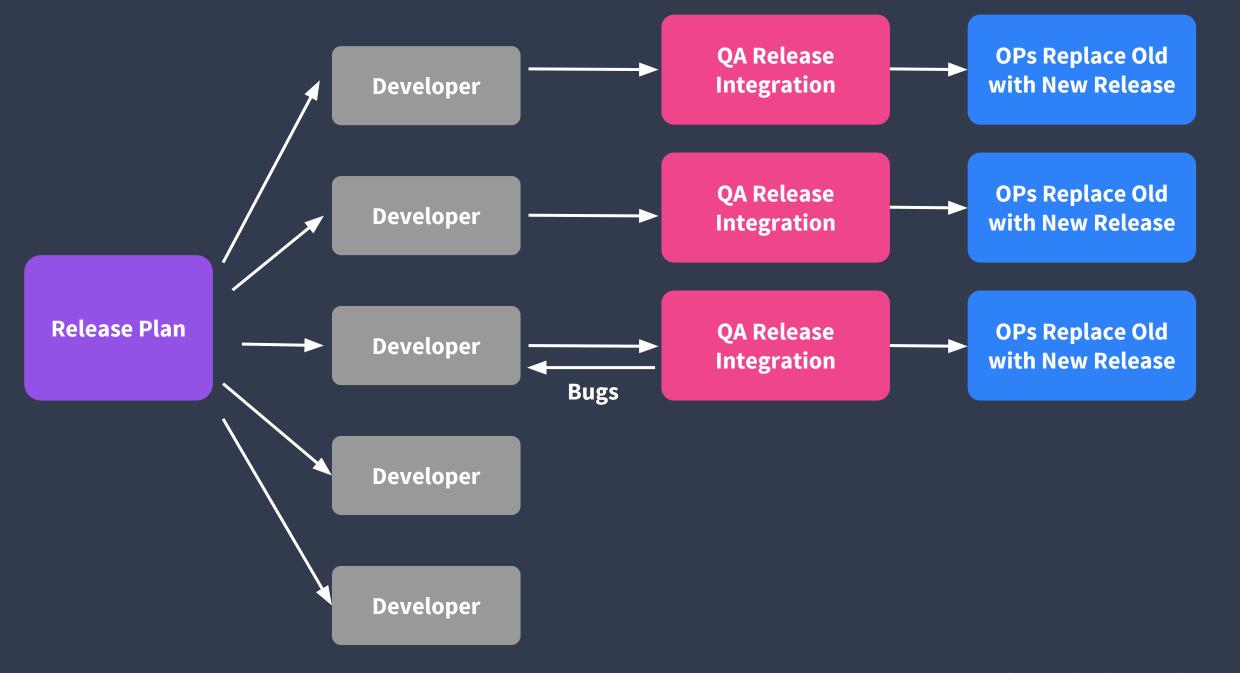
Mesosphere Datacenter Operating System (DCOS)

"Mesosphere brings Google-scale compute to everybody"

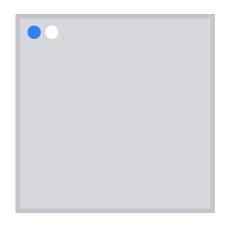
Adbur Chowdhury, Former Chief Scientist, Twitter

FROM MONOLITHIC MICROSERVICES

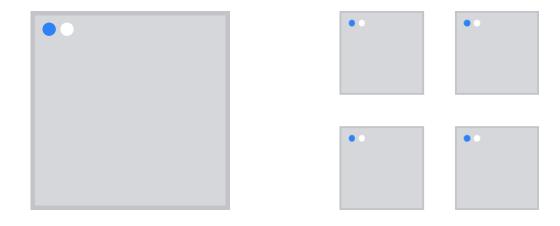




BUT... YOU NEED PROPER INFRASTRUCTURE!

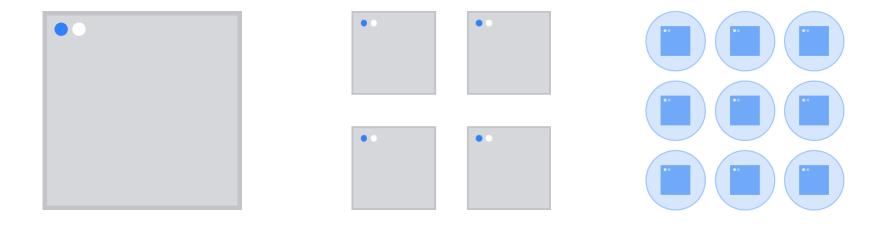


MAINFRAME

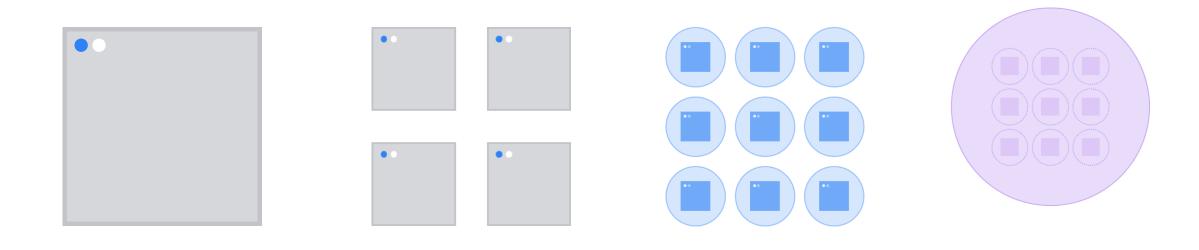


MAINFRAME

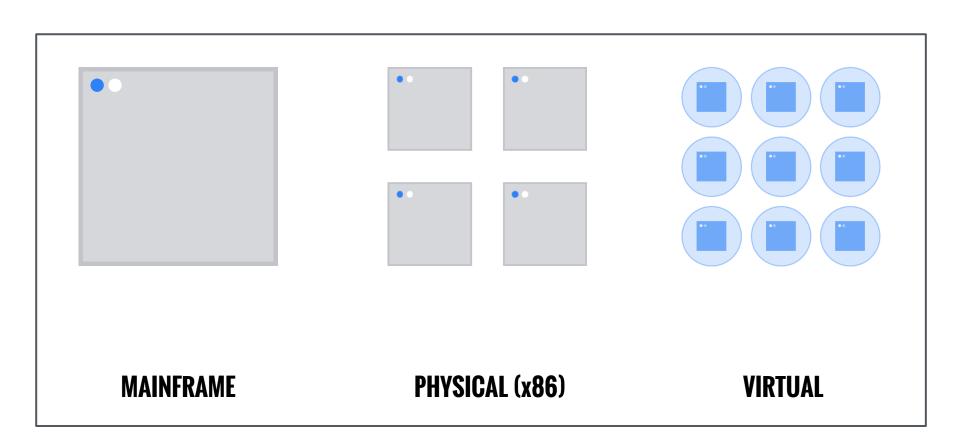
PHYSICAL (x86)

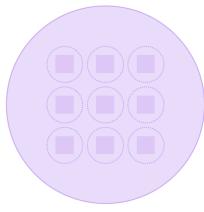


MAINFRAME PHYSICAL (x86) VIRTUAL



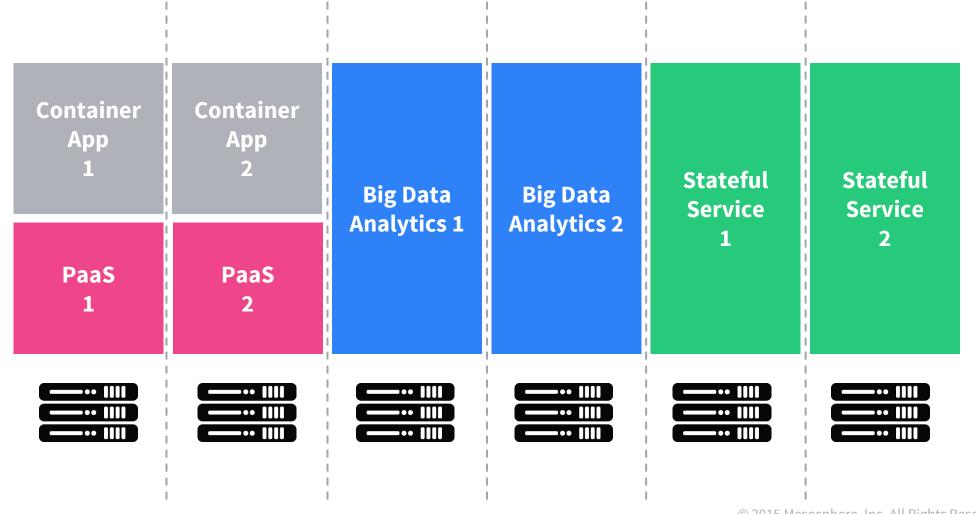
UNIFIED WAINFRAME PHYSICAL (x86) VIRTUAL HYPERSCALE



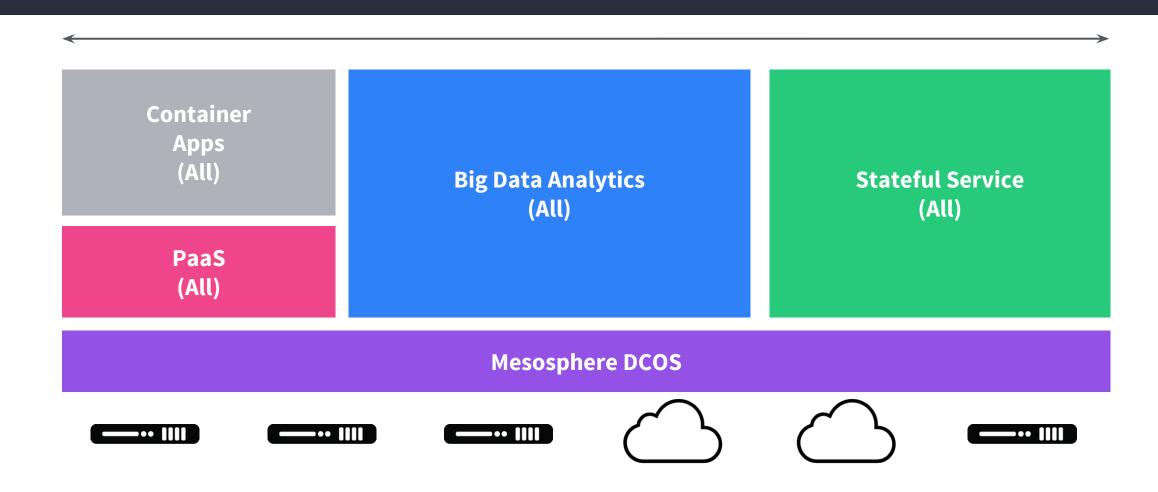


UNIFIED HYPERSCALE

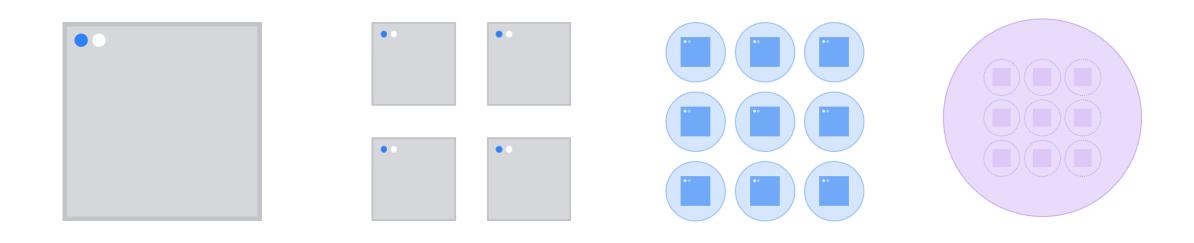
TRADITIONAL IT APPROACH



THE MESOSPHERE DCOS APPROACH



THE NEXT WAVE OF COMPUTING



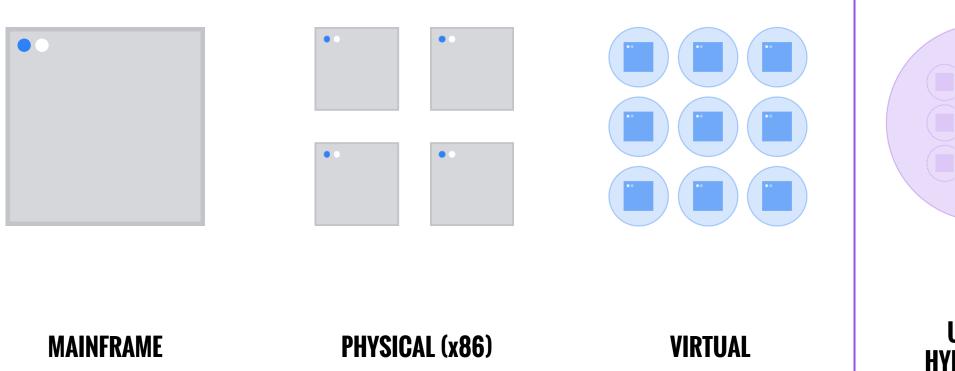
MAINFRAME

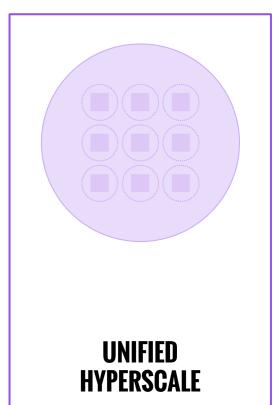
PHYSICAL (x86)

VIRTUAL

UNIFIED HYPERSCALE

THE NEXT WAVE OF COMPUTING





PROVEN AT SCALE

OPERATING SYSTEM

"a collection of software that manages the computer hardware resources and provides common services for computer programs"

DATACENTER OPERATING SYSTEM (DCOS)

"a collection of software that manages the <u>datacenter</u> computer hardware resources and provides common services for computer programs"

DATACENTER OPERATING SYSTEM (DCOS)

Just another form factor!



Product Overview

MESOSPHERE DCOS

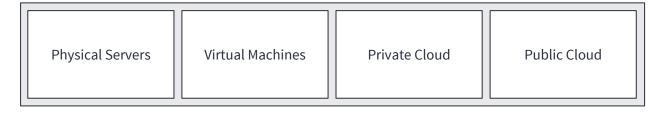
Services & Containers



Mesosphere DCOS



Existing Infrastructure



PRODUCTION CUSTOMERS AND MESOS USERS



















Proven reliable for large scale, mission-critical deployments





POWERED BY MESOS

Product Overview

MESOSPHERE DCOS

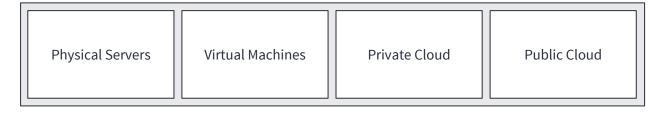
Services & Containers



Mesosphere DCOS



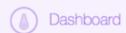
Existing Infrastructure



- \$ dcos package install spark
- • •
- \$ dcos marathon app list
- • •
- \$ dcos service log spark

• • •











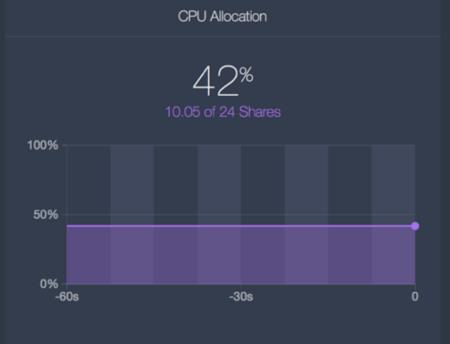
Mesosphere DCOS v.1.0.0

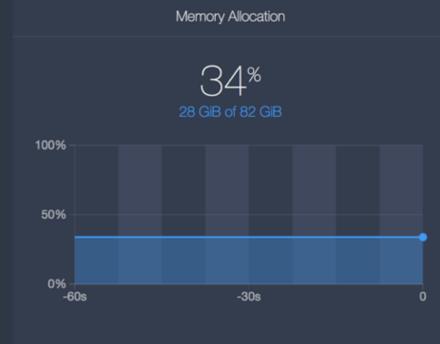






Dashboard





Task Failure Rate									
			Curre	O% nt Failur					
100%									



"Mesosphere brings Google-scale compute to everybody"

Adbur Chowdhury, Former Chief Scientist, Twitter















