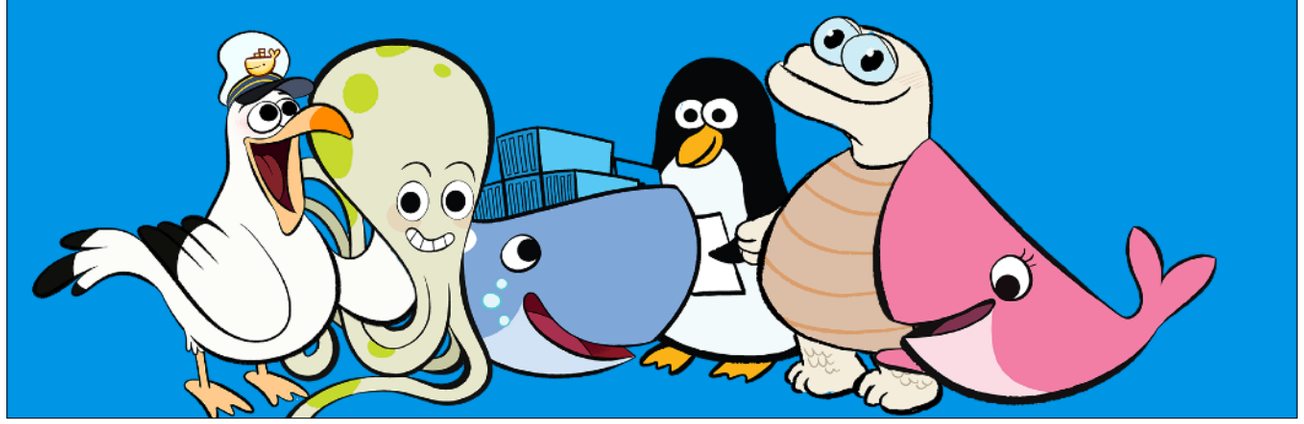
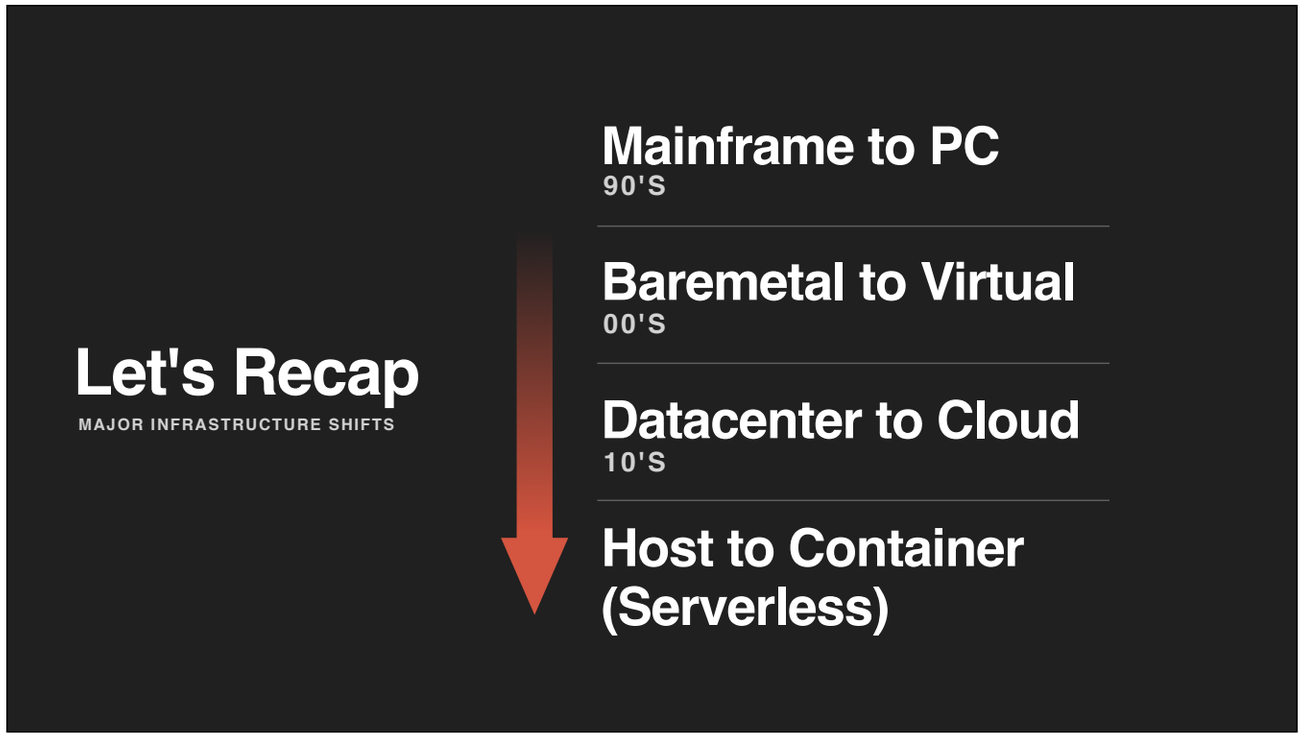
How Docker is Changing IT

5 YEARS CREATING AN INDUSTRY OF INNOVATION



This is it. Containers are the next once-in-a-decade shift in infrastructure and process that make or break you.

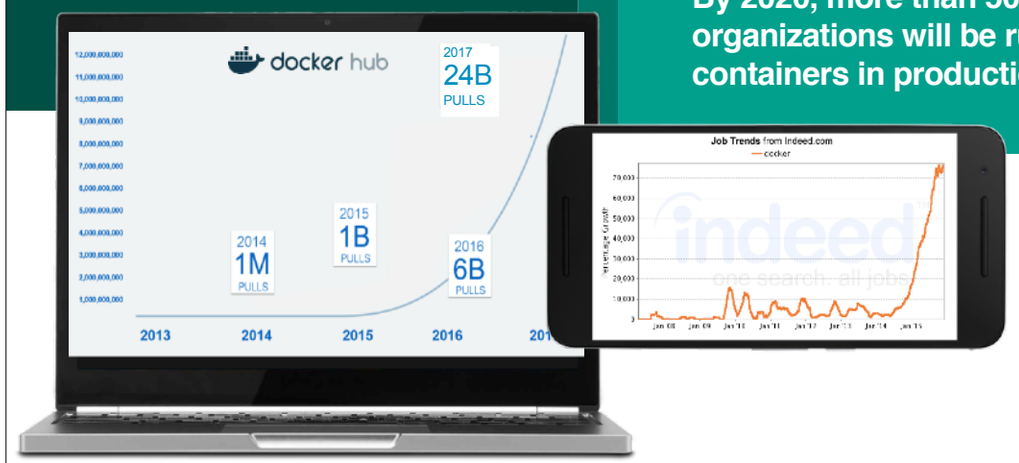
SAID BY ME. JUST NOW.



Each one of these shifts was about your teams ability to innovate.

Yet unlike these shifts, shifting to the cloud has had an impact on the migration experience.

Containers are the “Fastest Growing Cloud Enabling Technology”



> “By 2020, more than 50% of global organizations will be running containers in production.” -Gartner

Title source: 451 Research

It's never been a better time to start using Docker

@docker
@gordonTheTurtle
What will Docker do for me?

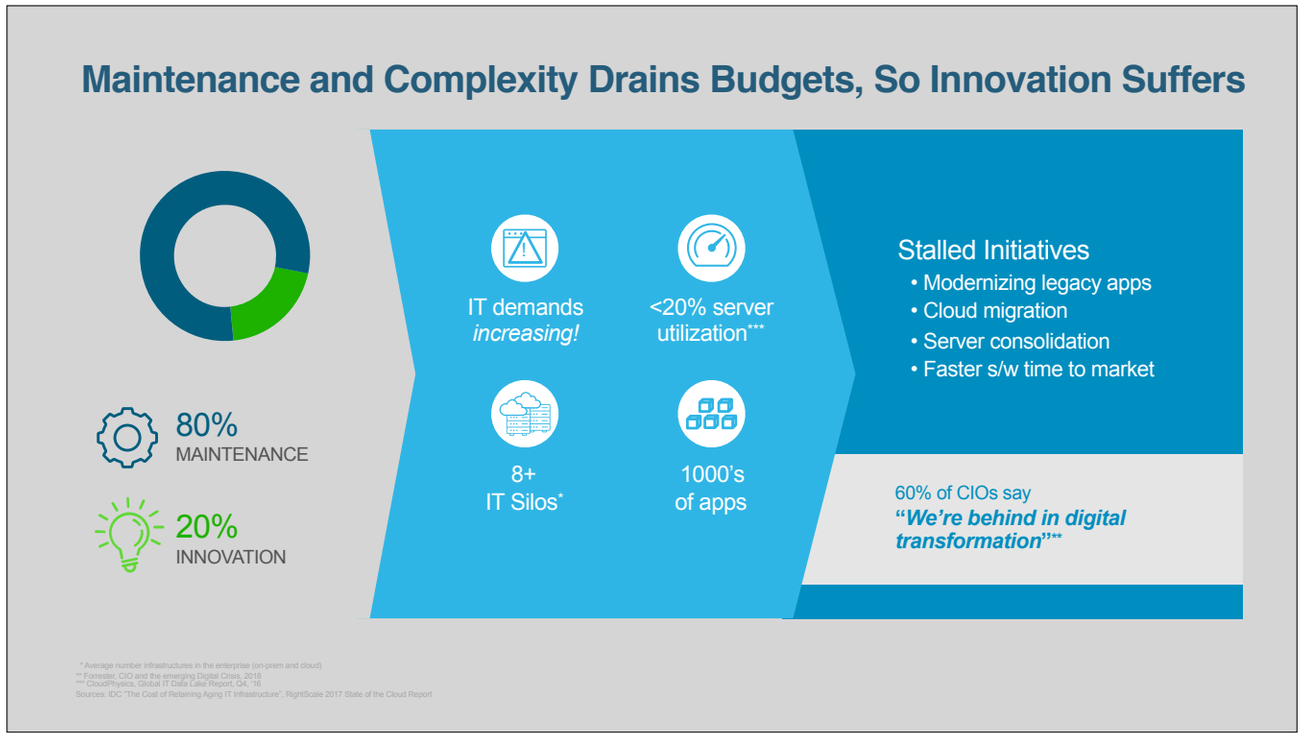
Docker is all about speed.
Develop Faster.
Build Faster.
Test Faster.
Deploy Faster.
Update Faster.
Recover Faster.

The “Matrix from Hell” Breeds Complexity

	Desktop	Test/QA Cluster	Production Cluster	Public Cloud	Data Center	Mainframe	Windows Server	Edge Device
Static Website	?	?	?	?	?	?	?	?
Web Frontend	?	?	?	?	?	?	?	?
Background Workers	?	?	?	?	?	?	?	?
User DB	?	?	?	?	?	?	?	?
Analytics DB	?	?	?	?	?	?	?	?
Queue	?	?	?	?	?	?	?	?

Back to the question "What's in it for me?"
2 big benefits

Containers Reduce Complexity



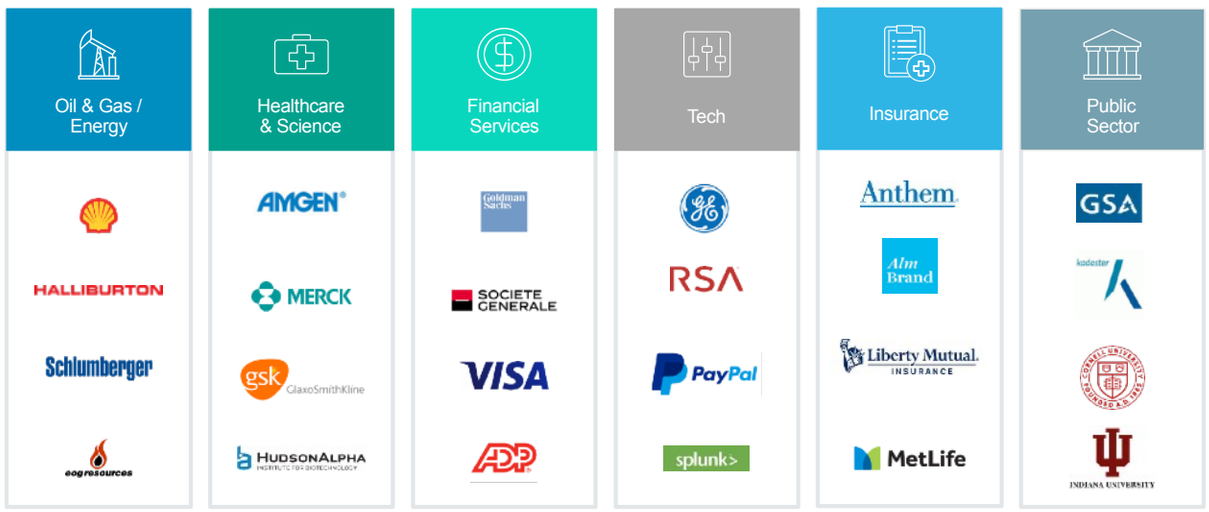
The reason the portability problem is so important to solve is because it's a major contributor (maybe the biggest) to the 80/20 paradigm: not enough time and resources to innovate and things won't be getting any easier

Most IT orgs spend the vast majority of time and resources maintaining existing systems, architectures, and applications, leaving not a lot of time or budget to be doing new things.

As a result critical initiatives — initiatives designed to increase competitiveness, lower costs, and deliver more value to customers slow down or stall.

* Average number infrastructures in the enterprise (on-prem and cloud)
** Forrester, CIO and the emerging Digital Crisis, 2018
*** CloudPhysics, Global IT Data Lake Report, Q4, '16
Sources: IDC "The Cost of Retaining Aging IT Infrastructure", RightScale 2017 State of the Cloud Report

500+ Build Their Containerization Strategy with Docker Enterprise Edition



docker.com/customers

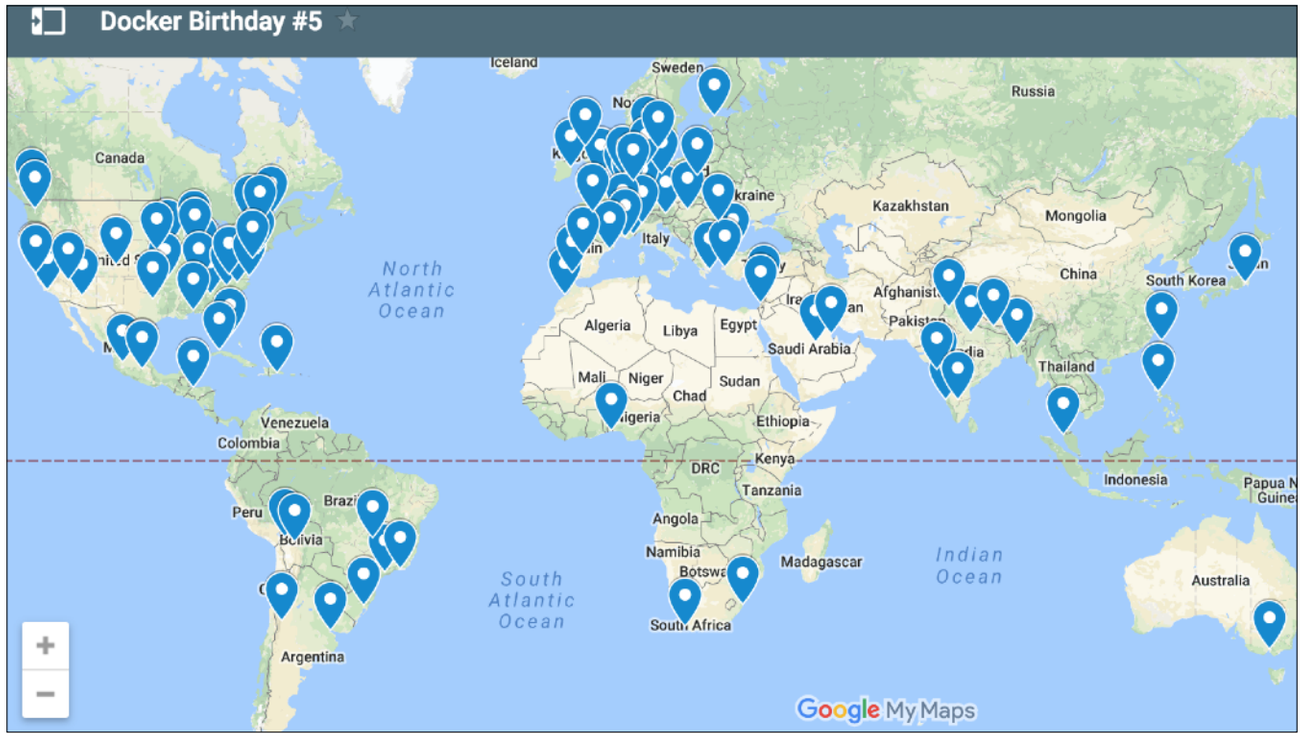
18 Month project
Migrated 700+ apps
Now 150,000 containers
50% dev productivity boost

70% reduction in VM costs
67% fewer CPU's
10x average CPU utilization
66% cost reduction

https://blog.docker.com/2017/10/metlife-docker-enterprise-edition-self-funded-containerization/

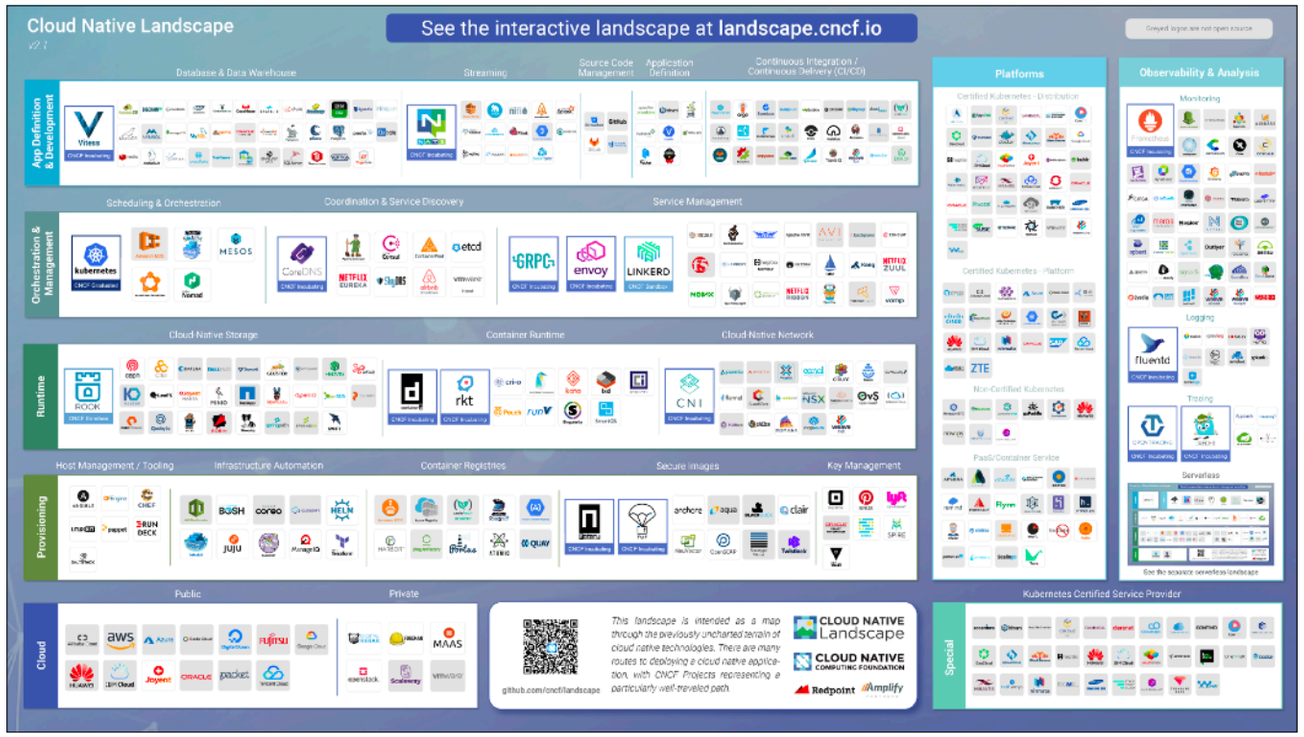
https://blog.docker.com/2017/12/containers-at-paypal/

5
docker



100+ events worldwide met in March to celebrate, like we do every year, the Docker project.

HAPPY BIRTHDAY
DOCKER!
docker


Cloud Native Landscape
v2.1
See the interactive landscape at landscape.cncf.io
Greyed logos are not open source
App Definition & Development
Database & Data Warehouse
Streaming
Source Code Management
Application Definition
Continuous Integration / Continuous Delivery (CI/CD)
Orchestration & Management
Scheduling & Orchestration
Coordination & Service Discovery
Service Management
Runtime
Cloud Native Storage
Container Runtime
Cloud Native Network
Provisioning
Host Management / Tooling
Infrastructure Automation
Container Registries
Secure Images
Key Management
Cloud
Public
Private
This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path.
github.com/cncf/landscape
CLOUD NATIVE Landscape
CLOUD NATIVE COMPUTING FOUNDATION
Redpoint
Amplify
Platforms
Certified Kubernetes - Distribution
Certified Kubernetes - Platform
Non-Certified Kubernetes
PaaS/Container Service
Observability & Analysis
Monitoring
Logging
Tracing
Serverless
See the sesame serverless landscape
Kubernetes Certified Service Provider
Special