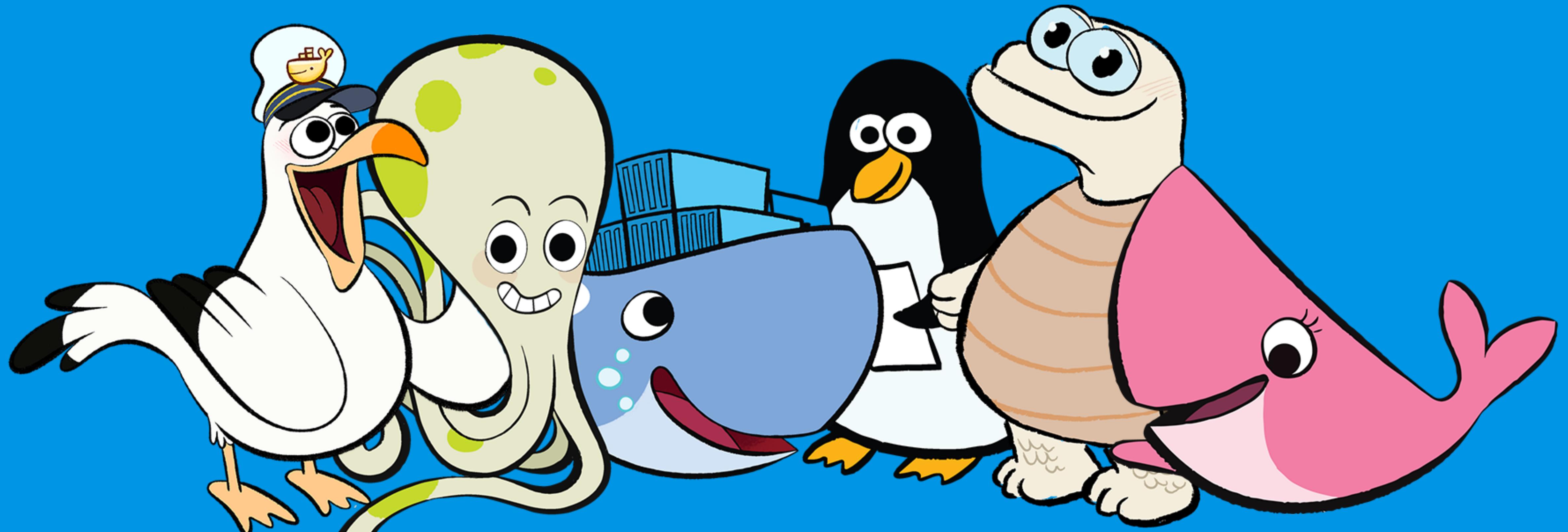


# How Docker is Changing IT

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.

# Let's Recap

MAJOR INFRASTRUCTURE SHIFTS



**Mainframe to PC**  
90'S

---

**Baremetal to Virtual**  
00'S

---

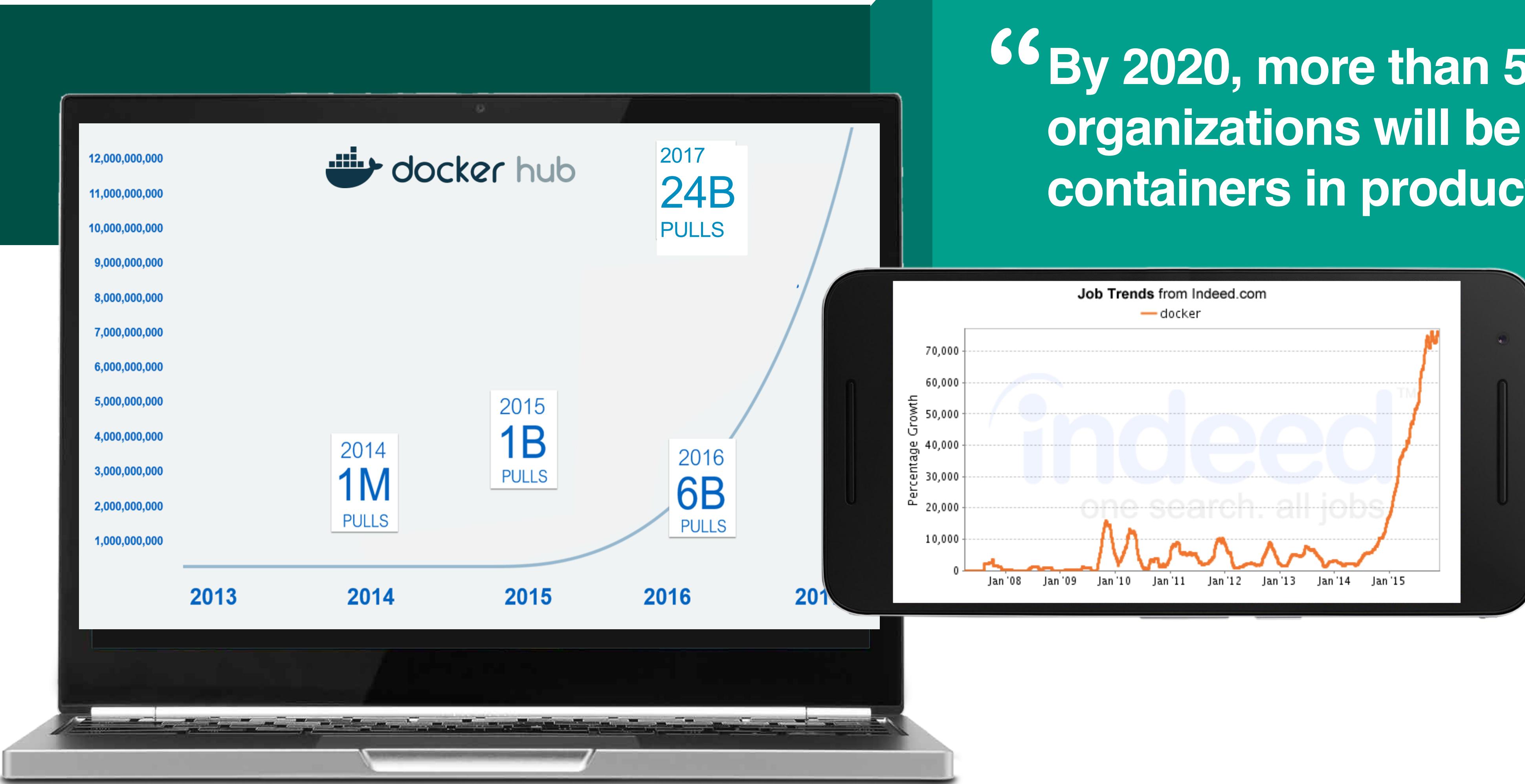
**Datacenter to Cloud**  
10'S

---

**Host to Container  
(Serverless)**

**Yet even all these shifts, shifts, shifts,  
focus on the migration experience.**

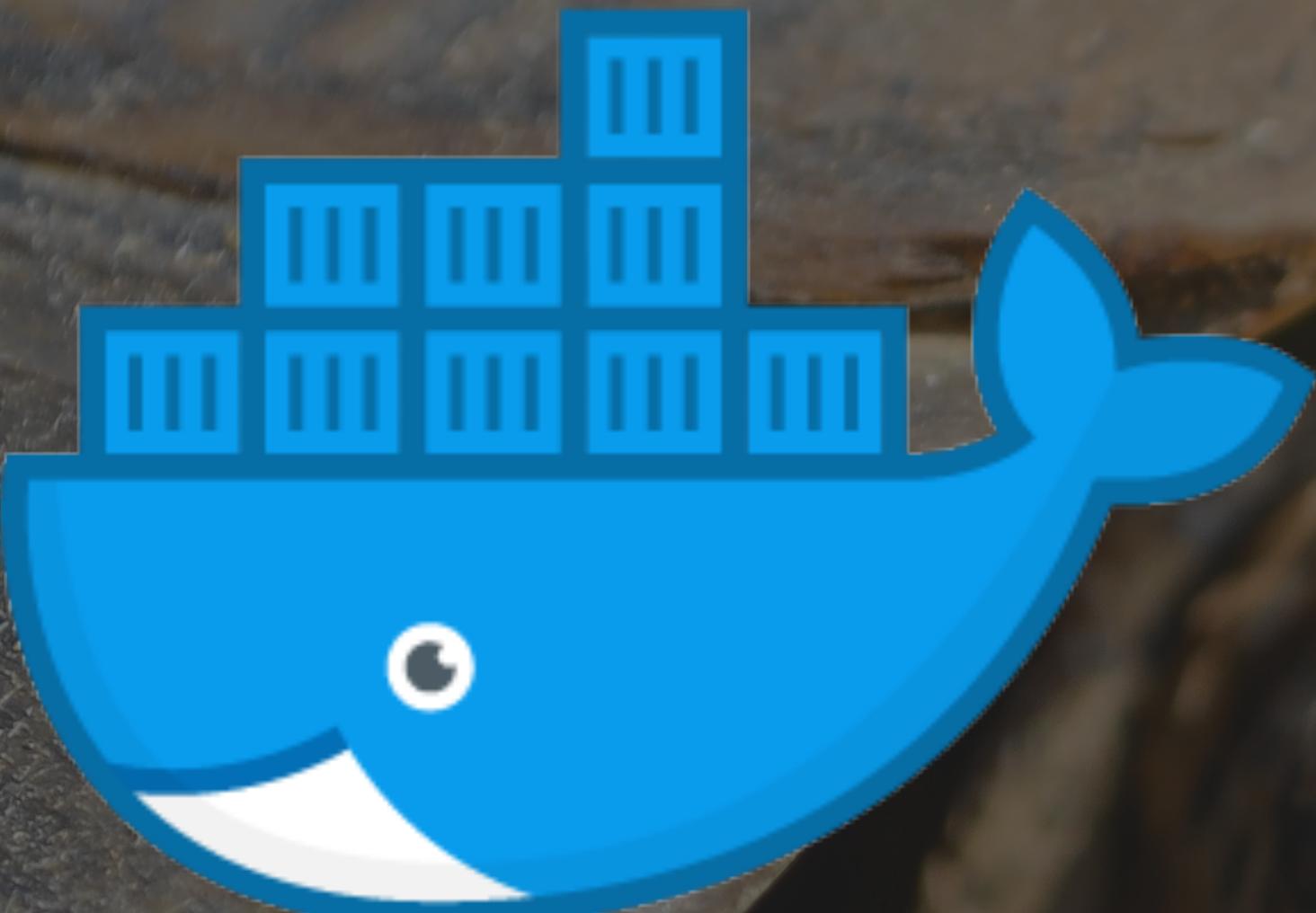
# Containers are the “Fastest Growing Cloud Enabling Technology”



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

-Gartner

@docker



@gordonTheTurtle



What will Docker do for me?

Docker is all about speed.

Develop Faster.

Build Faster.

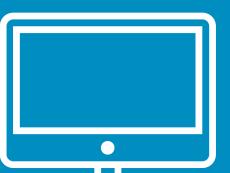
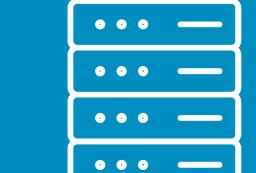
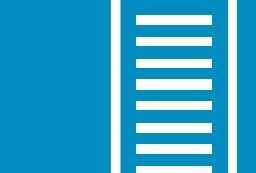
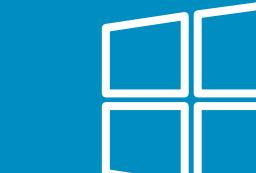
Test Faster.

Deploy Faster.

Update Faster.

Recover Faster.

# The “Matrix from Hell” Breeds Complexity

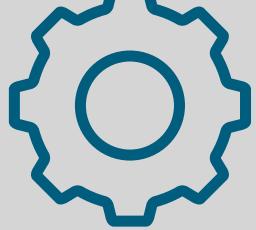
Static Website	?	?	?	?	?	?	?	?
Web Frontend	?	?	?	?	?	?	?	?
Background Workers	?	?	?	?	?	?	?	?
User DB	?	?	?	?	?	?	?	?
Analytics DB	?	?	?	?	?	?	?	?
Queue	?	?	?	?	?	?	?	?
	Desktop 	Test/QA Cluster 	Production Cluster 	Public Cloud 	Data Center 	Mainframe 	Windows Server 	Edge Device 

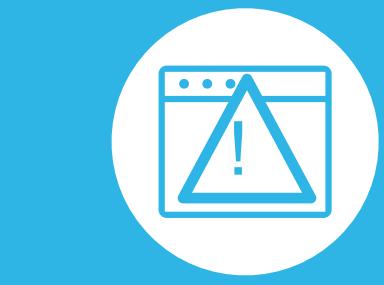
# Containers Reduce Complexity



# Maintenance and Complexity Drains Budgets, So Innovation Suffers



 **80%**  
MAINTENANCE  
  
 **20%**  
INNOVATION



IT demands  
*increasing!*



8+  
IT Silos\*



<20% server  
utilization\*\*\*



1000's  
of apps

## Stalled Initiatives

- Modernizing legacy apps
- Cloud migration
- Server consolidation
- Faster s/w time to market

60% of CIOs say  
***"We're behind in digital transformation"***\*\*

\* 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

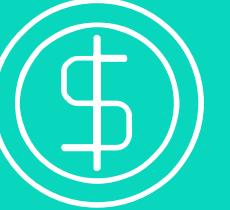
# 500+ Build Their Containerization Strategy with Docker Enterprise Edition



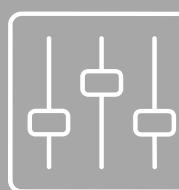
Oil & Gas /  
Energy



Healthcare  
& Science



Financial  
Services



Tech



Insurance



Public  
Sector



HALLIBURTON

Schlumberger



gsk  
GlaxoSmithKline

HUDSONALPHA  
INSTITUTE FOR BIOTECHNOLOGY



SOCIETE  
GENERALE

VISA

ADP®



RSA



splunk>

Anthem®

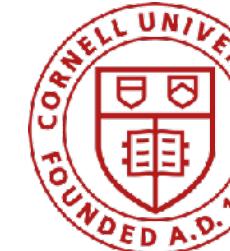
Alm  
Brand

Liberty Mutual.  
INSURANCE

MetLife



kadaster



INDIANA UNIVERSITY



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



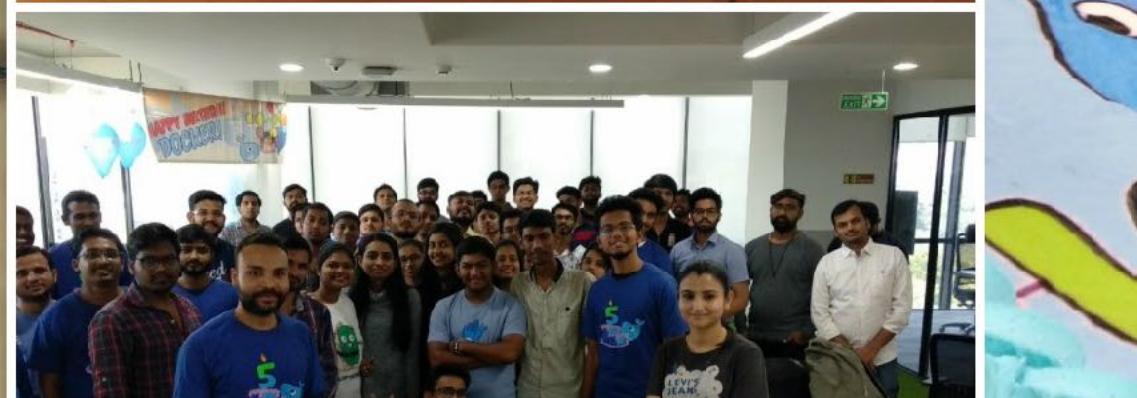
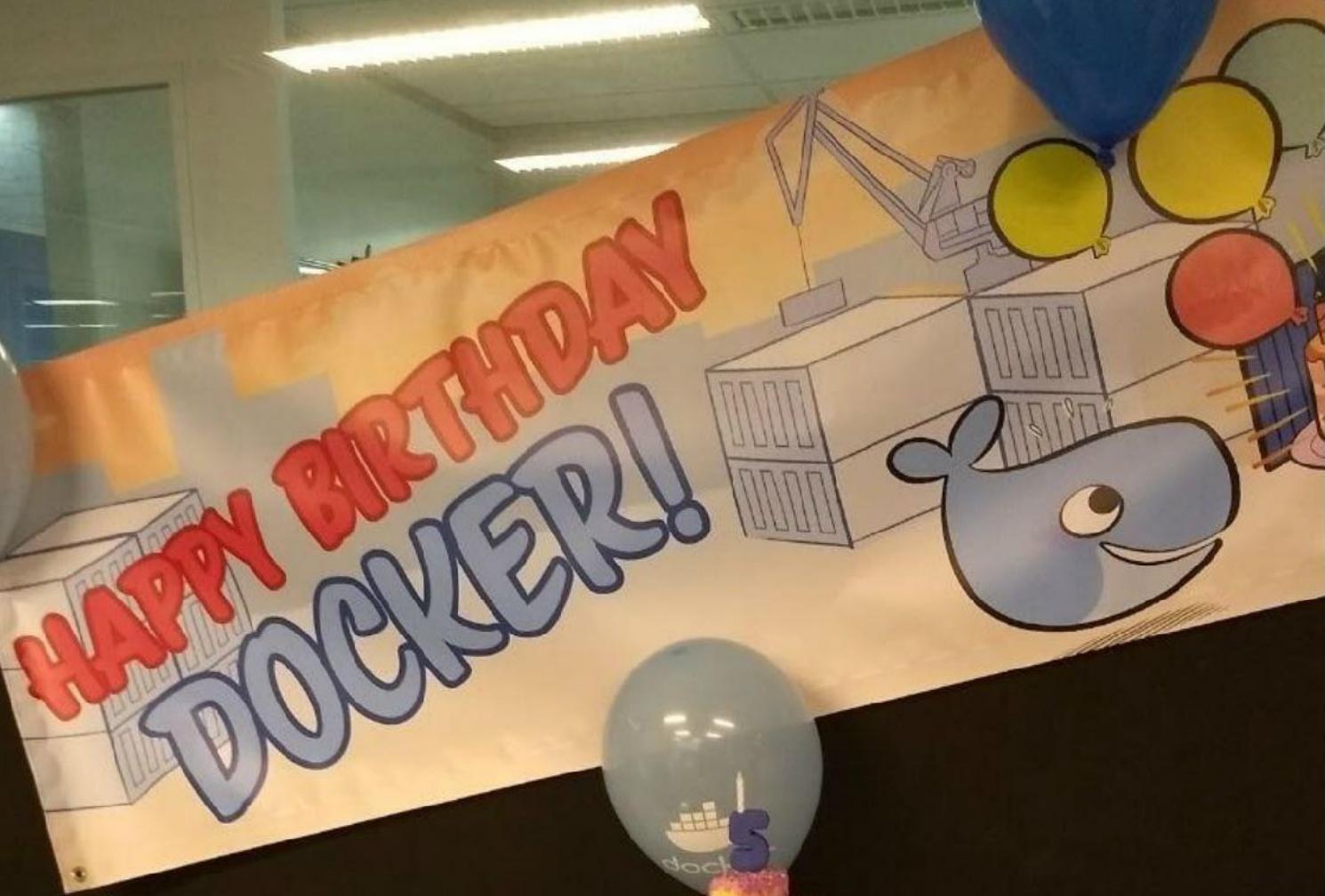
**70% reduction in VM costs**  
**67% fewer CPU's**  
**10x average CPU utilization**  
**66% cost reduction**



docker

# Docker Birthday #5 ★





## App Definition &amp; Development

## Orchestration &amp; Management

## Runtime

## Provisioning

## Cloud

## Database &amp; Data Warehouse

## Streaming

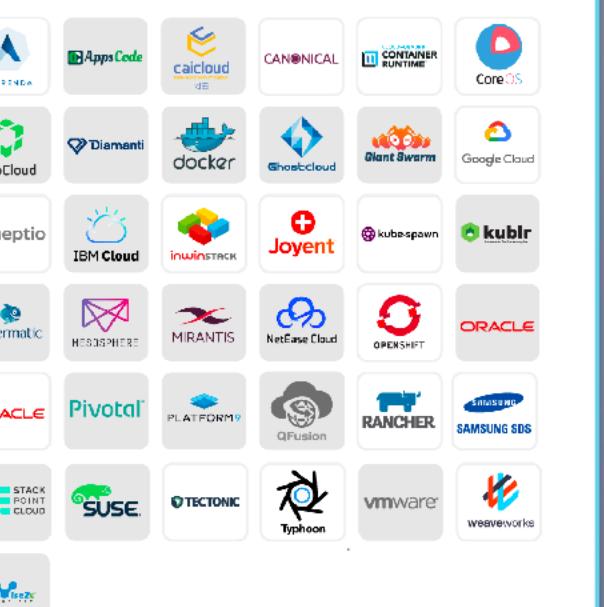
## Source Code Management

## Application Definition

## Continuous Integration / Continuous Delivery (CI/CD)

## Platforms

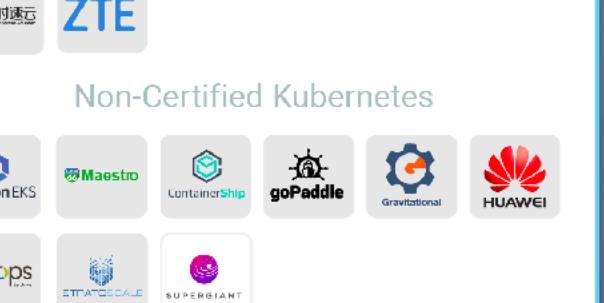
## Certified Kubernetes - Distribution



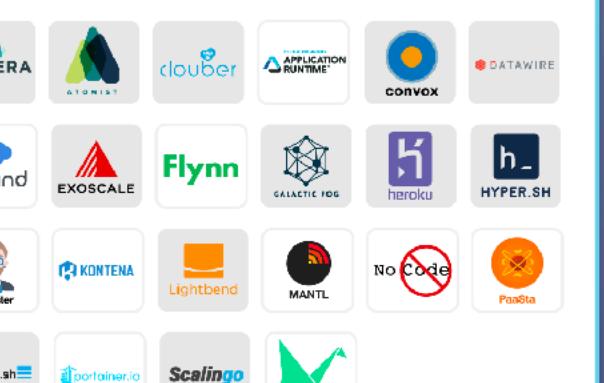
## Certified Kubernetes - Platform



## Non-Certified Kubernetes



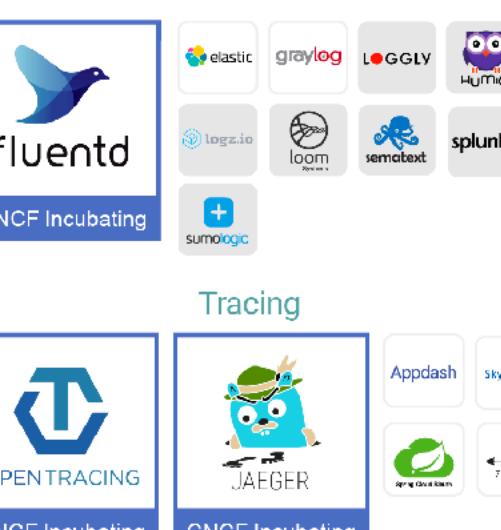
## PaaS/Container Service



## Observability &amp; Analysis



## Logging

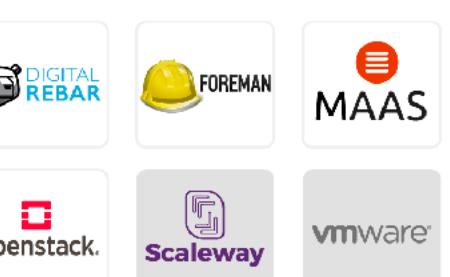


## Tracing



## Public

## Private

[github.com/cncf/landscape](https://github.com/cncf/landscape)

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.



## Special



## Kubernetes Certified Service Provider