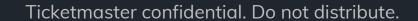
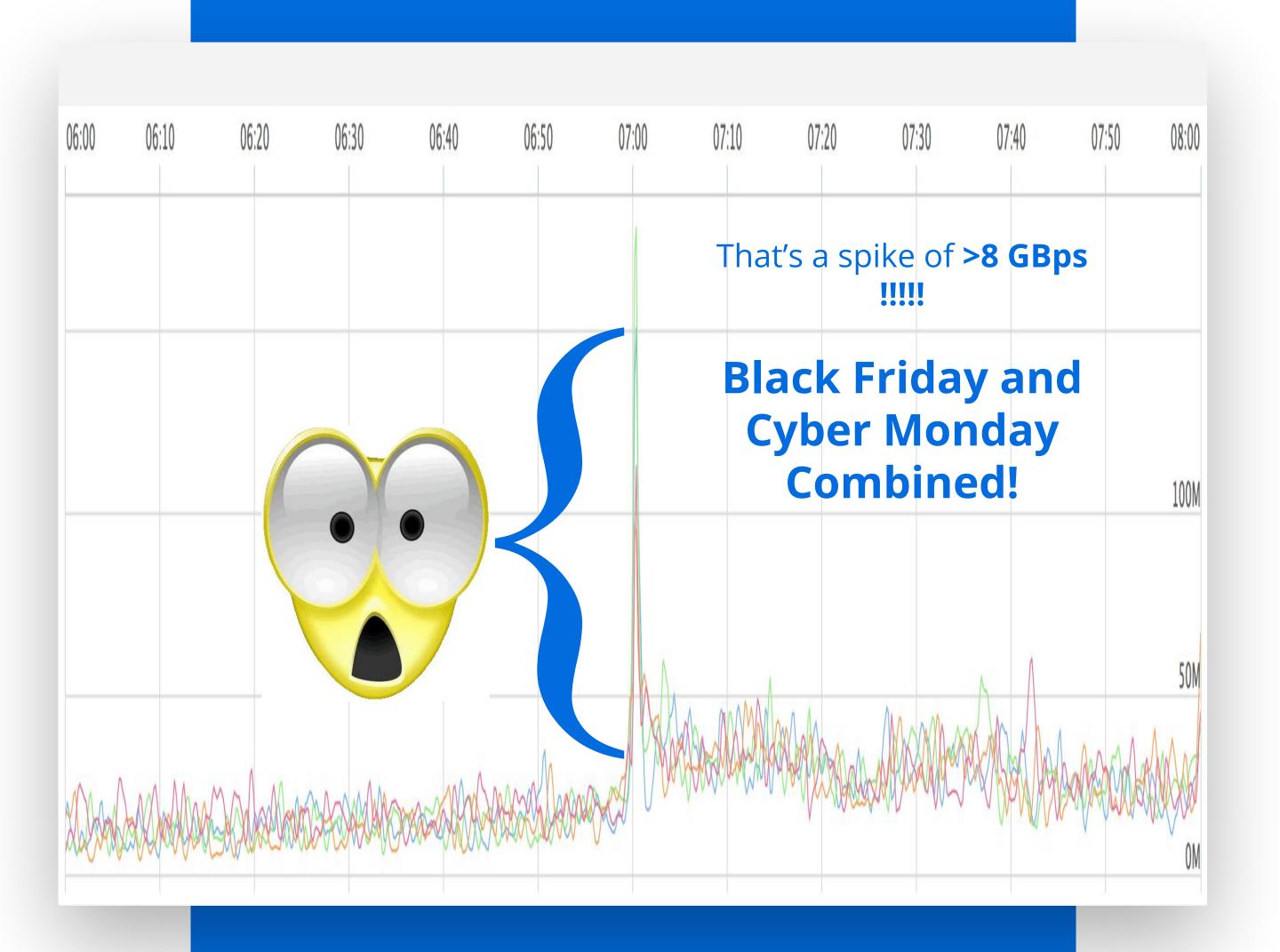
# Ticketmaster Road to Kubernetes

**Tim Nichols** 

ticketmaster







# Big Scale Big Challenges

#### **On-sales = Black Friday every day!**

- Huge spikes / demand for tickets
- Global company = across time zones
- Limited inventory (Hamilton Tickets!)
- Multiple sales channels

#### 0 to 150M transactions in minutes!



#### TECH SCALE

- 27 Ticketing Systems and over 250 unique products
- 1,400+ people in Product & Tech org
- Hybrid Cloud with over 20,000 VMs across 7 global data centers

- Over 15,000 network endpoints across the world (Venues, Arenas, Kiosks, etc)
- Kubernetes? Yes!!!1000+ nodes16,000+ Pods

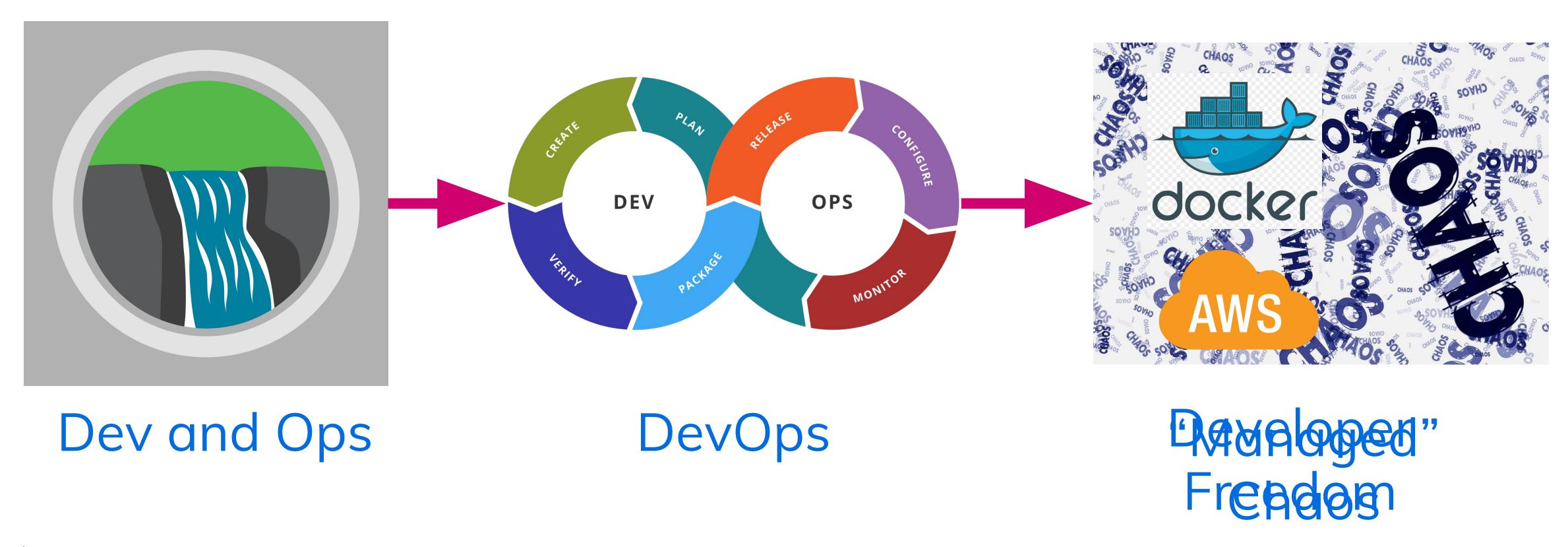
~80% growth since Q1!!





## Our Kubernetes Story

## The DevOps Transition



#### **DEVOPS TRANSITION**

## Early DevOps Learning

DevOps at scale is harder than it sounds. Here are some key things we learned early on.



#### Guardrails, not Gates

You don't want total freedom

Guardrails are not easy or cheap to build



## Autonomy is the enemy of Alignment

There is a constant tension between standards governance and freedom to innovate



#### Innovate Don't Reinvent

Most teams don't want to build their own servers. They want to use servers on demand to a standard that works



#### Build Ops Tools Limit Ops Access

Rather than granting
even more people
operational access, drive
your ops teams to
automate and immute



## Why Kubernetes?

- Container Orchestration
- Abstraction from Primitives
- Offload Infrastructure Operations



## Kubernauts Team





Jackie Fong Team Manager



Mike Goodness
Architect



Jesus Carillo
Engineer



**Hsu Chan**Engineer



Brian Spindler Engineer

#### **K8s related OSS Contributions**

- ALB Ingress Controller
- Helm Charts
- prometheus-operator
- External DNS

- cert-manager
- kubeadm
- Gitlab runners
- more.....



Kraig Amador

Architect / Sr Director

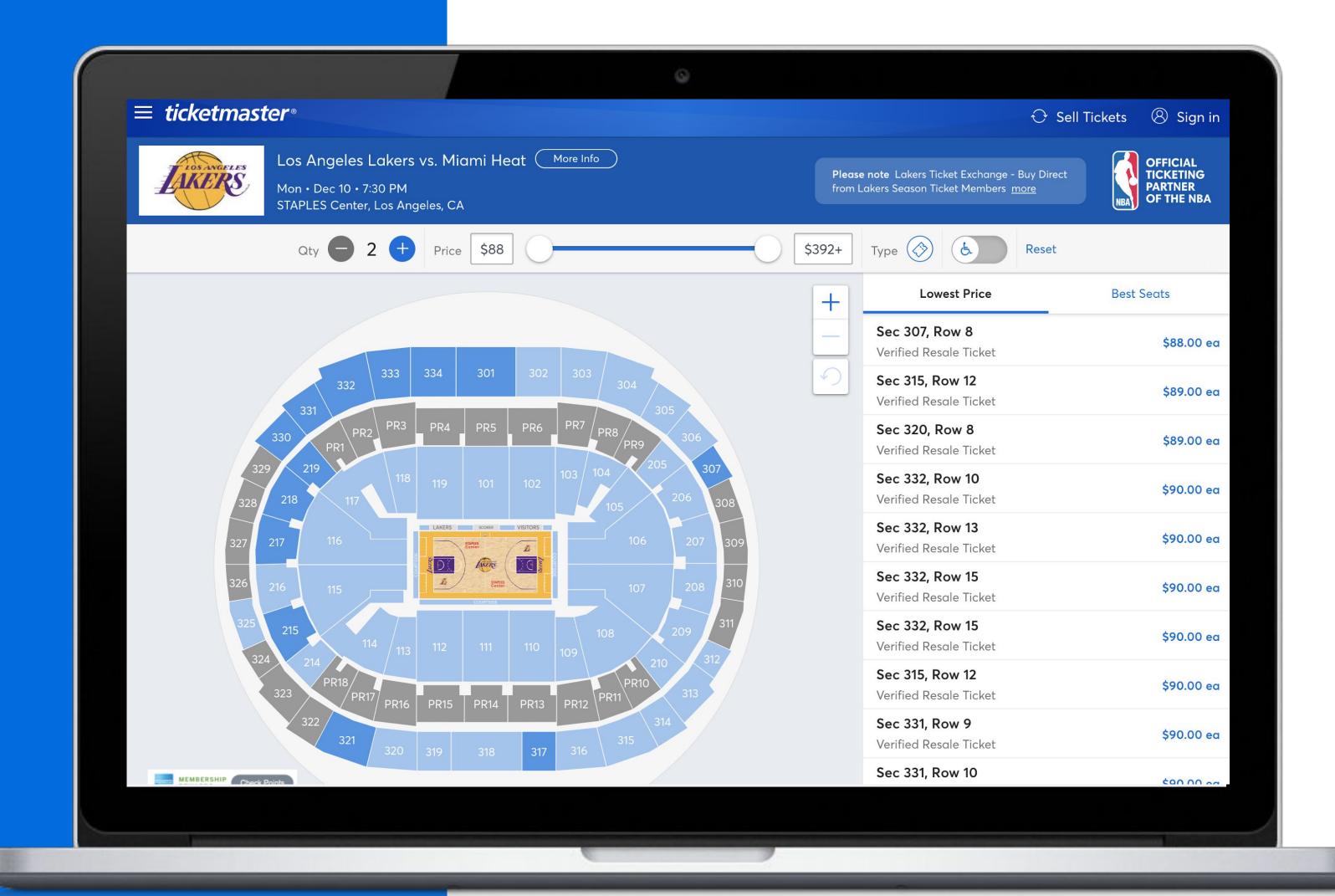
# Kubernetes Contributing to Ticketmaster Mission

Ticketmaster on Kubernetes

## Ticketmaster Event Details

Selecting your event tickets on Ticketmaster? You're benefiting from Kubernetes Technology.

- Event Details
- Branding
- High Traffic Event Page
- Seating and Pricing backends



# Replatforming 2019

