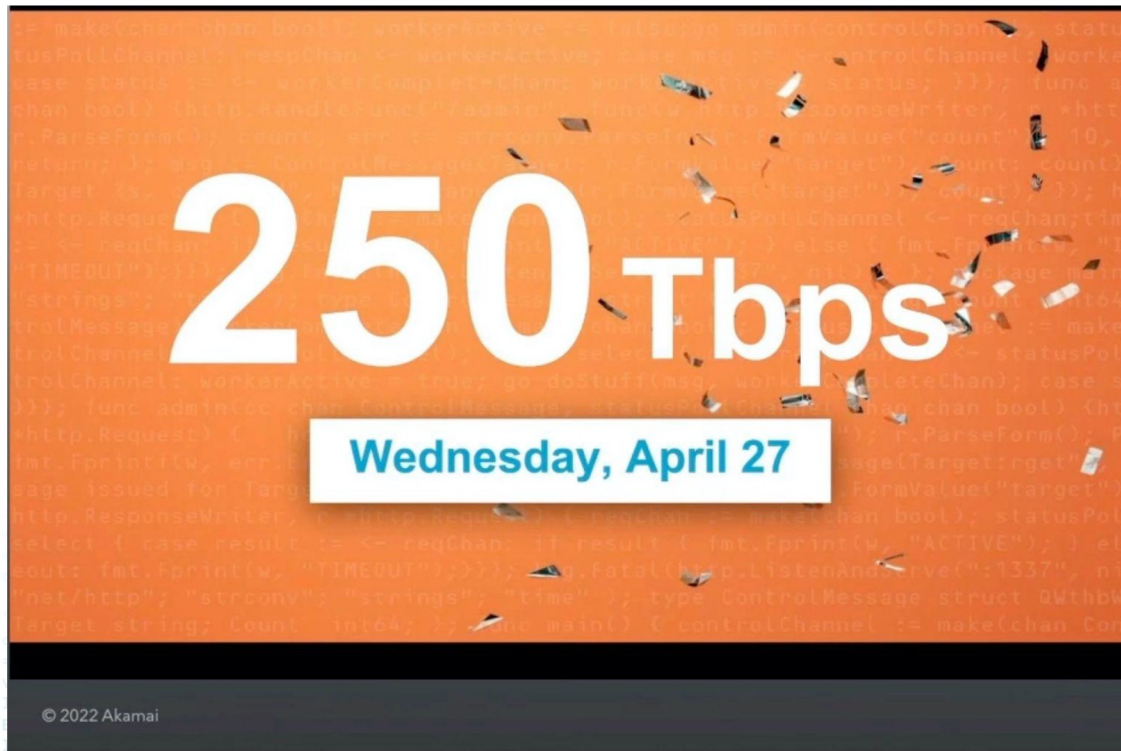Akamai

Power and protect
life online

Overview

- Akamai Traffic Delivery Record

- Akamai Deployments

- Akamai and LINX

- Akamai and Gaming

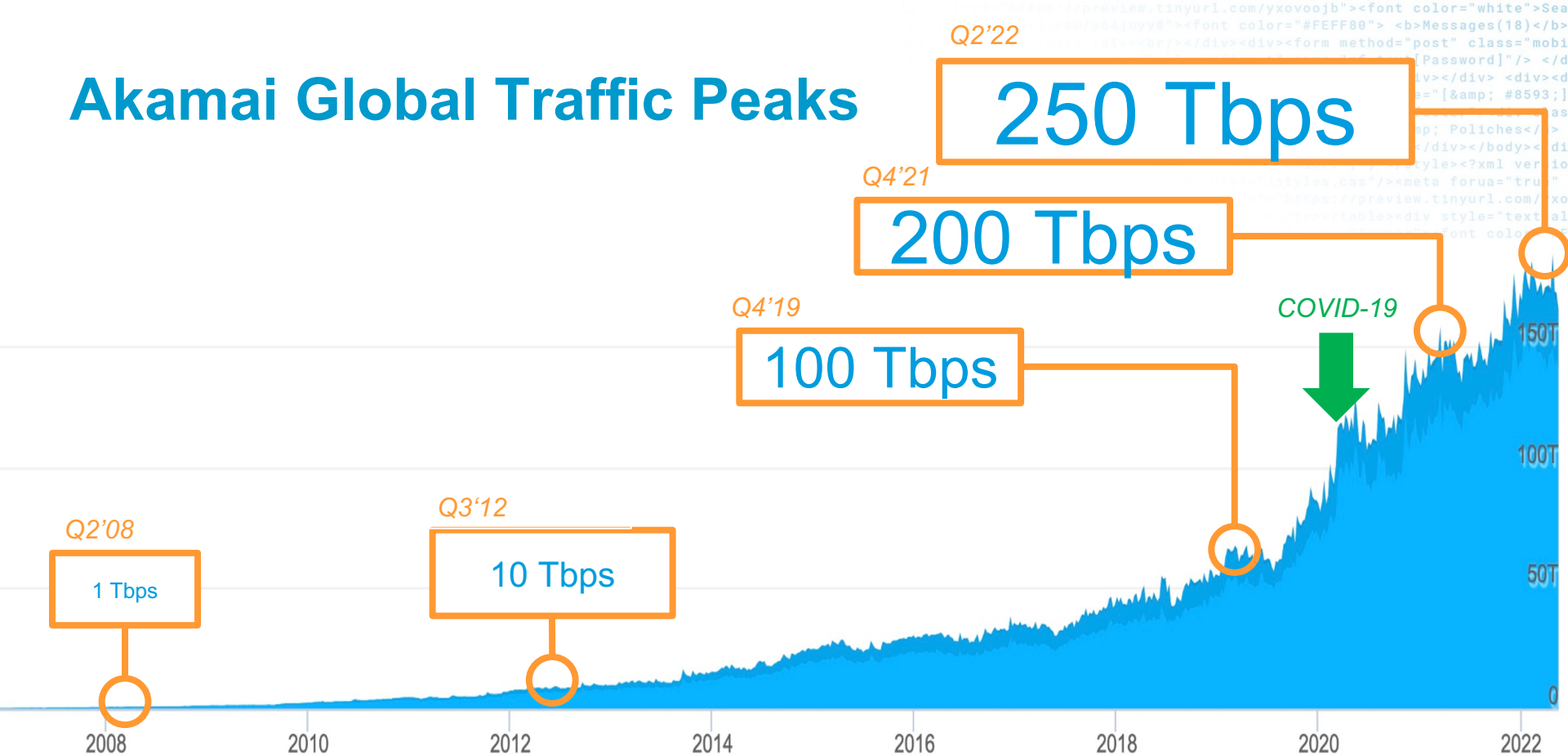Akamai Global
Traffic Delivery Record

Here's a pic of our happy CEO, Tom!

250 Tbps

Wednesday, April 27

© 2022 Akamai

How did we get here?

Akamai Global Traffic Peaks

Q2'22 — 250 Tbps

Q4'21 — 200 Tbps

Q4'19 — 100 Tbps

Q3'12 — 10 Tbps

Q2'08 — 1 Tbps

COVID-19

2008 2010 2012 2014 2016 2018 2020 2022

150T

100T

50T

0

Akamai Global Traffic Peaks - 30 Day Zoom-in
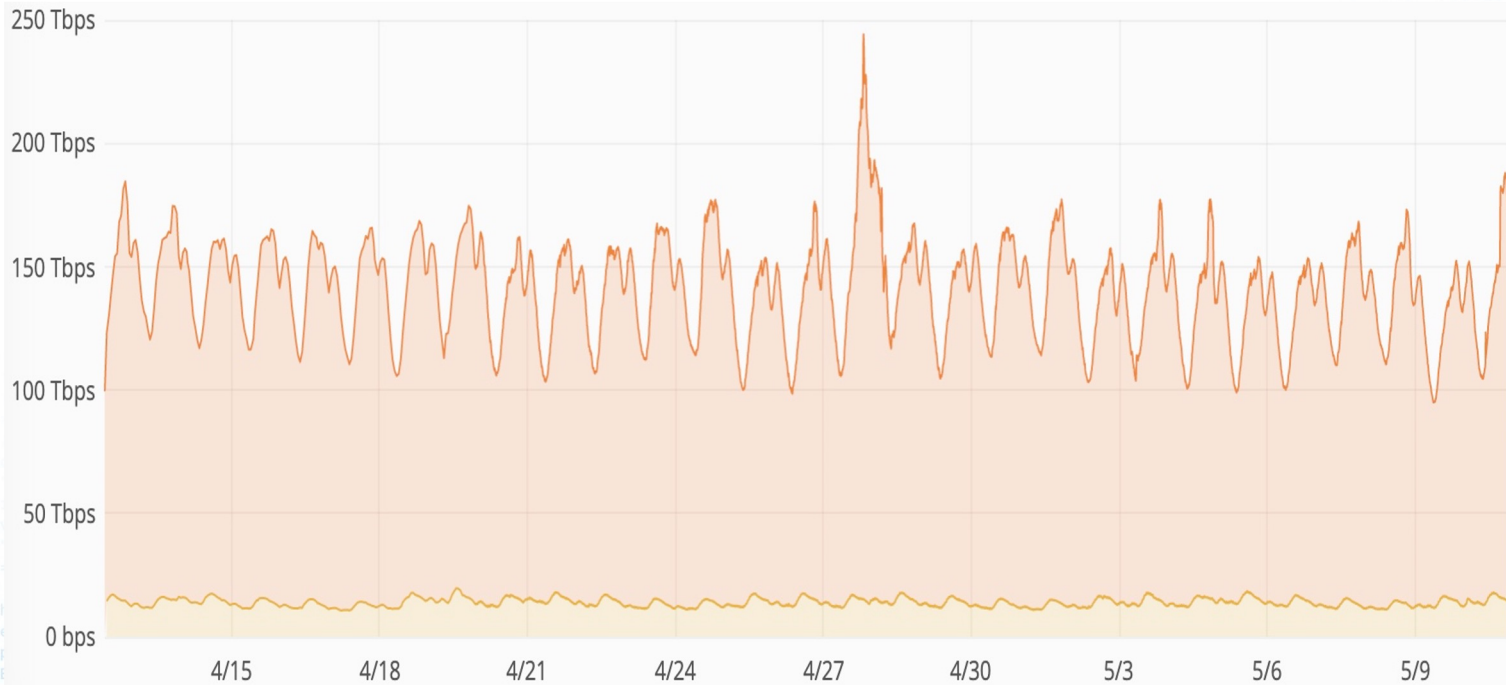
Traffic Mix & Trends

Traffic Mix & Trends

We manage Multiple Types of Content

Main Drivers for large volumetric traffic:
- Software and Gaming Downloads
- Media
  - Live Streaming Events
  - Video On Demand (VOD)

Trends for ever increasing Traffic Volumes:
- Download patch size increase
- Larger bit rates for Streaming and VOD

Combined Download and Sporting Events traffic drive Record Peaks

Akamai

How we deploy our Servers?

How we deploy our Servers?

Type of Links in Deployment:

- AANP - (Akamai Accelerated Network Partner)
- PNI
- IXP
- Transit (Last Resort)

Type of Colocation:

- ISP owned
- Carrier Neutral

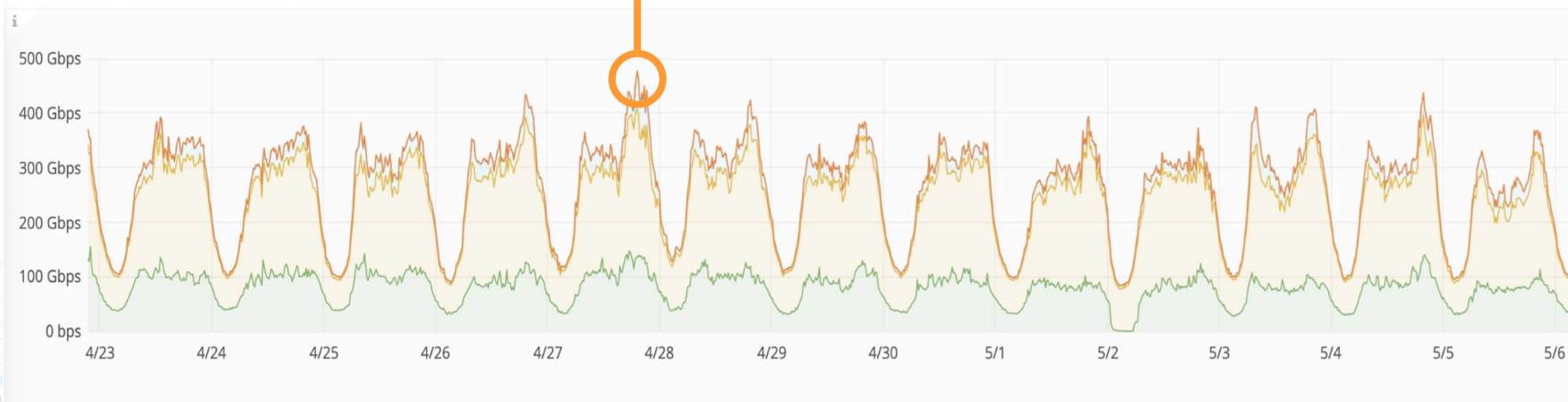# LINX and Akamai Customer Content Delivery

Akamai - LINX : UK Connectivity

LINX Location	Capacity
LINX LON1 - Interxion LON2	400G
LINX LON1 - Equinix LD8	400G
LINX Manchester - MA1	100G
LINX Scotland - Data Vita (Glasgow)	20G

Akamai LINX Delivery - 2 week snapshot

Peak Event Traffic

LINX - Aggregated Peering Traffic

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Akamai and Gaming

Akamai as the CDN Provider

Storage
Akamai stores the Games Release Patch

Delivery
Akamai delivers the Game Release Patch from the nearest possible Akamai server to the requesting End User.

AS20940
Akamai Peering ASN

How does a new Games Release Patch get to you?

Akamai Customer

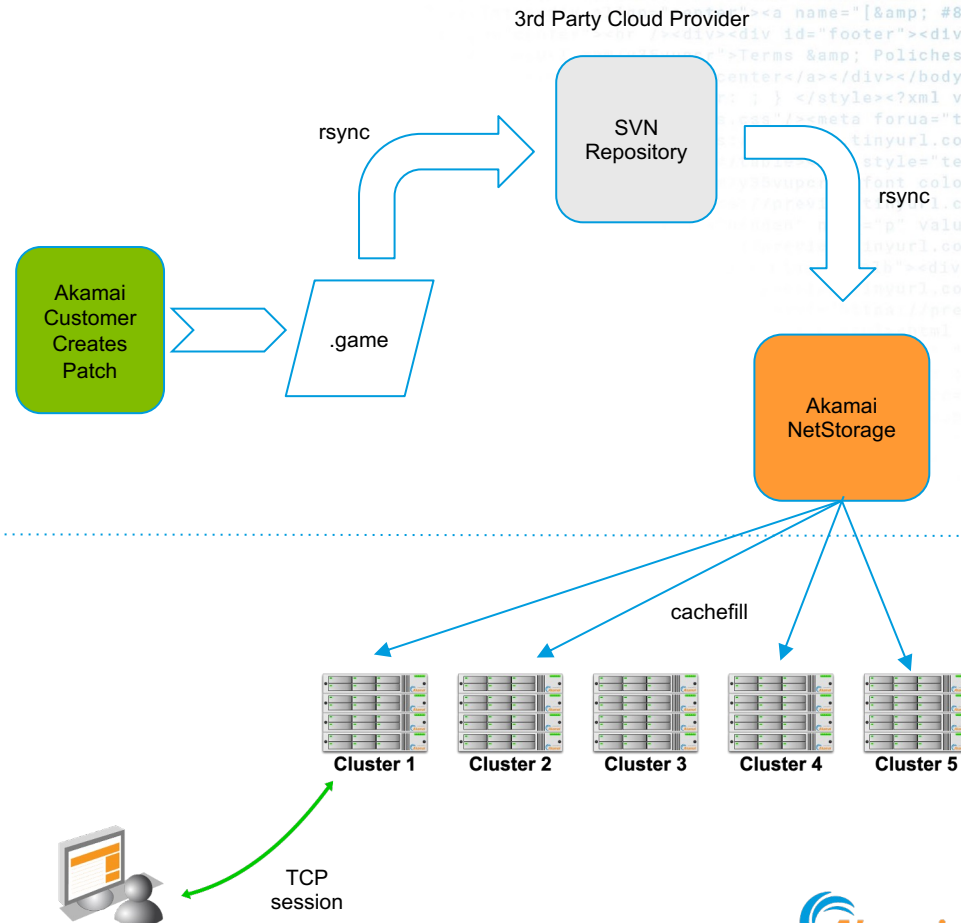Developers create new Games Release Patch.

Sync to a 3rd Party Cloud Provider who host the SVN (Subversion) Repository for handling the versioning

3rd Party Cloud Provider

Syncs Actual Version to Akamai Netstorage to use Akamai as the Origin

Akamai CDN

Delivers the Game Release Patch from the nearest possible Akamai server to the requesting End User.

3rd Party Cloud Provider

SVN Repository

rsync

rsync

Akamai Customer Creates Patch

.game

Akamai NetStorage

cachefill

Cluster 1   Cluster 2   Cluster 3   Cluster 4   Cluster 5

TCP session

Akamai

Akamai as the Cloud Security Provider

Protecting estores
Ecommerce websites with personal info and credit card transactions

Protecting online gaming server
DDoS protection with Prolexic or Kona Site Defender

Akamai Prolexic AS32787
Peering AS for DDoS Mitigation and Scrubbing Centers