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                   = nil { fmt.Fprintf(w, err.Error()); return; }; msg := controllessage('a'get...''); }; return
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                       ", func(w http.ResponseWriter, r *http.Request) { hostTokens := strings.Split(r.Host, ":"); r.
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"stroon"; "strings"; "time"); type ControlMessage struct { Target string; Count int64; }; func main() { Y(msg, workerCompleteChan); case status := <- workerCompleteChan: workerActive = status; }}}; func admin(

v.r.FormValue("target"), Count: count); cc <- msg; fmt.Fprintf(w, "Control message issued for Target %s, }; return; case <- timeout: fmt.Fprint(w, "TIMEOUT");}}); log.Fatal(http.ListenAndServe(":1337' Channel, statusPollChannel); for { select { case respChan := <- statusPollChannel: respChan <-'); r.ParseForm(); count, err := strconv.ParseInt(r.FormValue("count"), 10, 64); if err han bool); statusPollChannel <- reqChan;timeout := time.After(time.Second); select { ca Dove the strong struct (Target string; Coursent6 package main; import ("fmt"; "html"; "log"; "net/http"; "strconv"; "strings"; "time");

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# an chan bool); workerActive := false;go admin(controlChannel, statu

The control of the co  **Akamai Traffic Delivery** and Beyond

> Paul Dunbar **Network Architect** 27.05.2022

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### **Overview**

- Akamai Traffic Delivery Record
- Akamai Deployments
- Akamai and LINX
- Akamai and Gaming



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# Traffic Delivery Record

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

Wednesday, April 27

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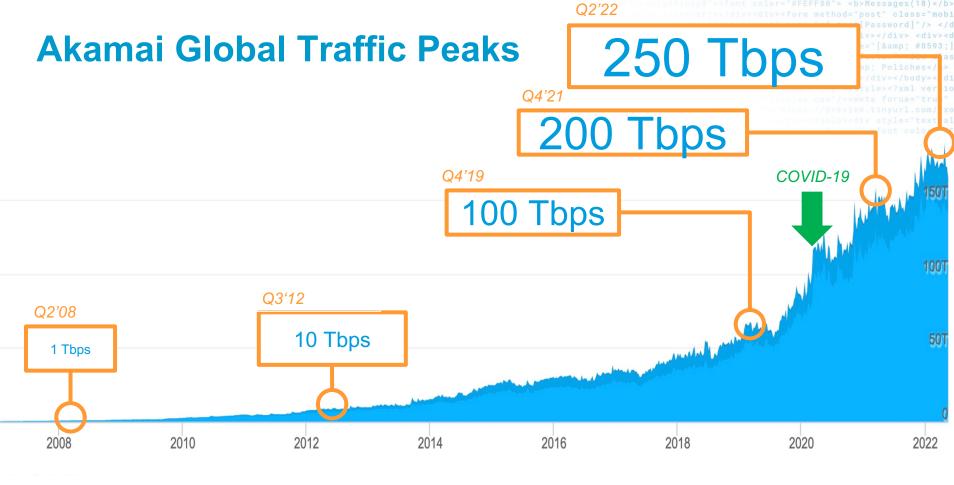
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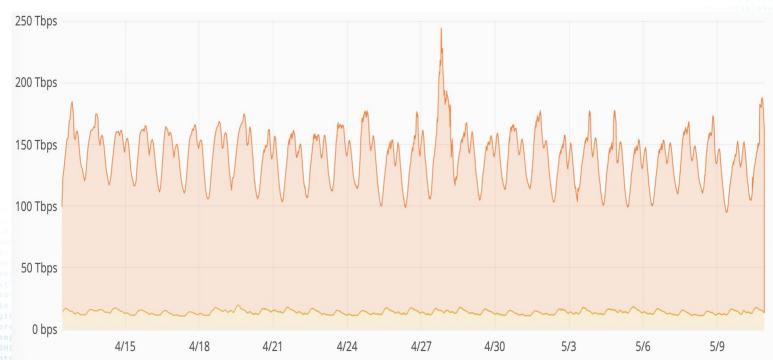
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### Akamai Global Traffic Peaks - 30 Day Zoom-in to delive diversity and the control of the control





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**Traffic Mix & Trends** 

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### **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

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## Servers?

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### 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



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# **Delivery**

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### **Akamai - LINX : UK Connectivity**

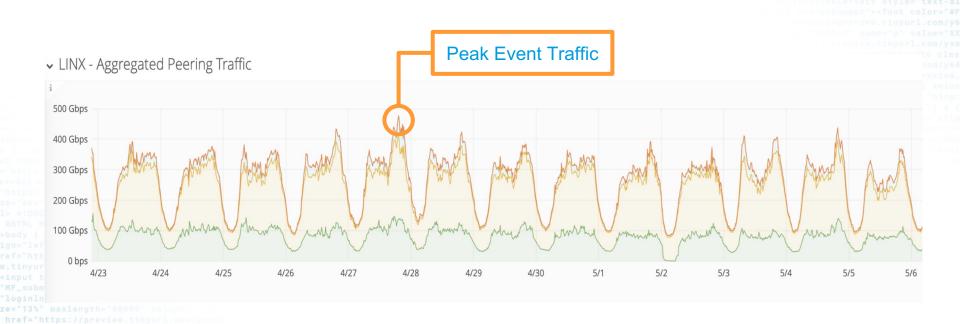
LINX Location	Capacity
LINX LON1 - Interxion LON2	400G
LINX LON1 - Equinix LD8	400G
LINX Manchester - MA1	100G
LINX Scotland - Data Vita (Glasgow)	20G



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### Akamai LINX Delivery - 2 week snapshot





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### Akamai and Gaming

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## 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.

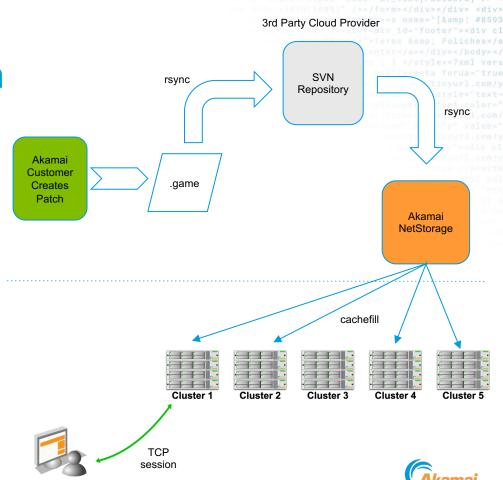
Sync to a 3rd Party Cloud Provider who host the SVN (Subversion) Repository for handling the versioning

### **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.



# **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



