

Agenda



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Akamai Overview



Who is Akamai?

Akamai is the leading global service provider for accelerating content and business processes online. Akamai has transformed the Internet from a chaotic network into a predictable, scalable, and secure business platform. Thousands of customers rely on Akamai to deliver their content and applications — getting more value out of their Web businesses at less cost. Leveraging the Akamai EdgePlatform, these organizations gain business advantage today, and have the foundation for the emerging Web solutions of tomorrow. Akamai is "The Trusted Choice for Online Business."

- Public company symbol AKAM
- Founded: 1998
- Headquarters: Cambridge, MA, USA
- 16+ worldwide offices, including Europe and Asia
- 1,400+ employees worldwide

Product Portfolio



DIGITAL ASSET SOLUTIONS

To provide a superior online experience

Akamai Media Delivery
Helps media providers deliver and monetize media assets
quickly and effectively

Akamai Stream OS

A single point of control for producing, publishing, and delivering rich media, and essential reporting tools to effectively support online business models

Electronic Software Delivery
Delivers any type of software over the Internet effectively
and reliably

Product Portfolio



DYNAMIC SITE SOLUTIONS

To speed up rich interactive content

Dynamic Site Accelerator
Ensures high performance and reliability of dynamicallyrendered, personalized Web sites

Dynamic Site Accelerator Enterprise

Handles the most complex Web sites – increasing scale, reach, and performance rapidly without added infrastructure

Product Portfolio



APPLICATION PERFORMANCE SOLUTIONS

To accelerate dynamic applications

Web Application Accelerator
Improves performance and reliability of Web-based
applications

IP Application Accelerator
Improves the performance and reliability of any IP-enabled application

Traffic Snapshot









The Akamai System

The world's largest on-demand, distributed computing platform delivers all forms of Web content and applications for over 2,000 customers and 20,000 domains

The Akamai EdgePlatform:

30,000+ Servers 1450+ POPs 950+ Networks 660+ Cities

67 Countries

Resulting in traffic of:

885 Gbps peak traffic
6,419 terabytes / day
274 billion hits / day
274 million unique clients IPs / day

/ day



Object Delivery (Classic CDN)

- 1. Enduser types www.retailer.com into browser
- 2. Browser retrieves HTML from retailer's origin infrastructure
- 3. HTML instructs browser to get objects from Akamai
- 4. Browser retrieves images from optimal Akamai EdgeServer





Whole Site Delivery (for Static Sites)

- 1. Enduser types www.retailer.com into browser
- 2. Browser retrieves entire site from Akamai cache at the edge
- 3. HTML instructs browser to get objects from Akamai
- 4. Browser retrieves images from optimal Akamai EdgeServer





Whole Site Delivery (for Dynamic Sites)

- 1. Enduser types www.retailer.com into browser
- 2. Browser requests HTML from optimal Akamai EdgeServer
- 3. Akamai EdgeServer retrieves HTML from origin infrastructure
- 4. Akamai EdgeServer sends HTML to browser
- 5. Browser retrieves images from optimal Akamai EdgeServer



Without Akamai:

Many round trips to retrieve content





With Akamai:

Akamai

Fewer round trips with Akamai TCP Optimization



Without Akamai: Unreliable connectivity





With Akamai:



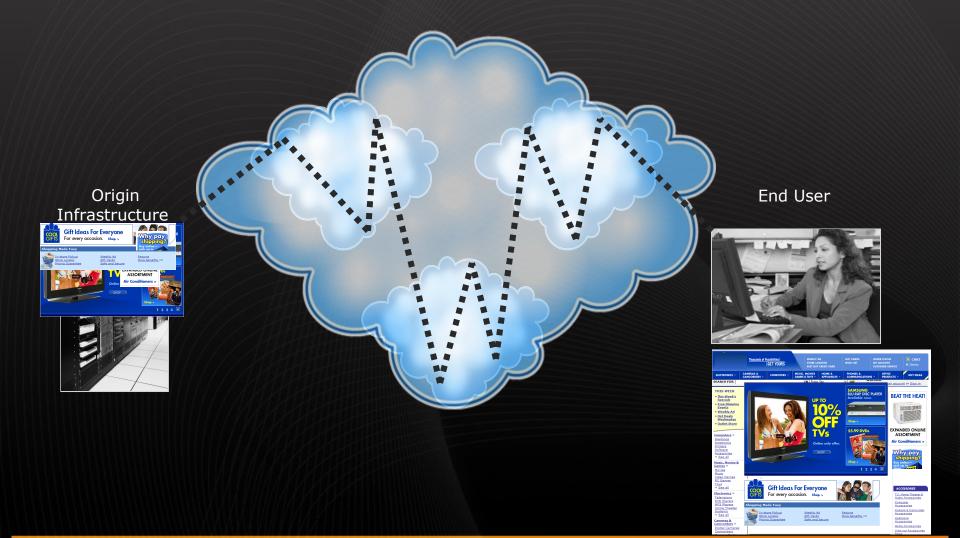
Route around trouble spots using Akamai SureRoute



Without Akamai:

Akamai

More round trips to get dynamic or "cold" objects



With Akamai:

"Just-in-time caching" of dynamic and "cold" content by Akamai Pre-fetching



- Enduser types www.retailer.com into browser
- Browser requests HTML from optimal Akamai EdgeServer
- Akamai EdgeServer "GETs" HTML from origin infrastructure
- Akamai EdgeServer parses HTML and requests uncached images from origin while delivering HTML to browser

EdgeServer delivers "Akamaized" images to browser Origin **End User** Infrastructure



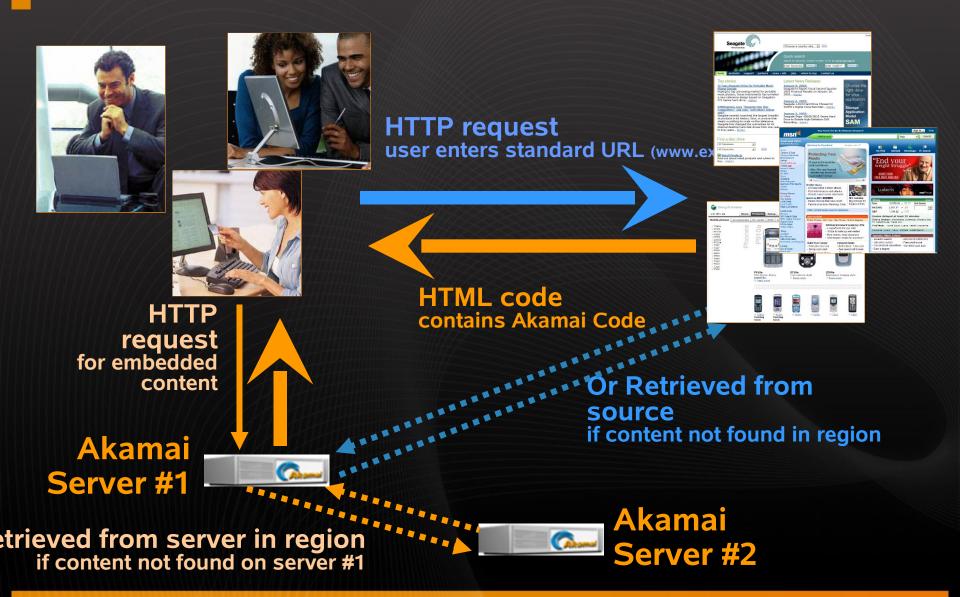






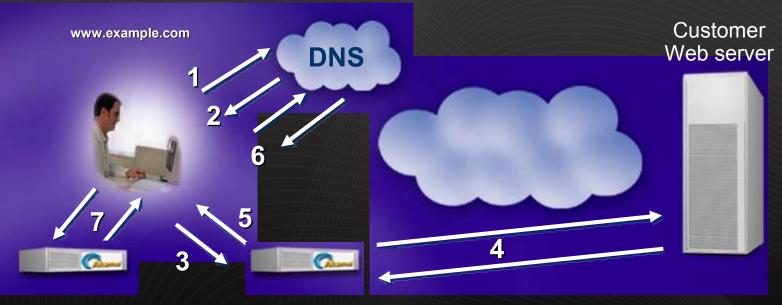
Basic Technology Edge Suite





Downloading www.example.com with Akamai's EdgeSuite



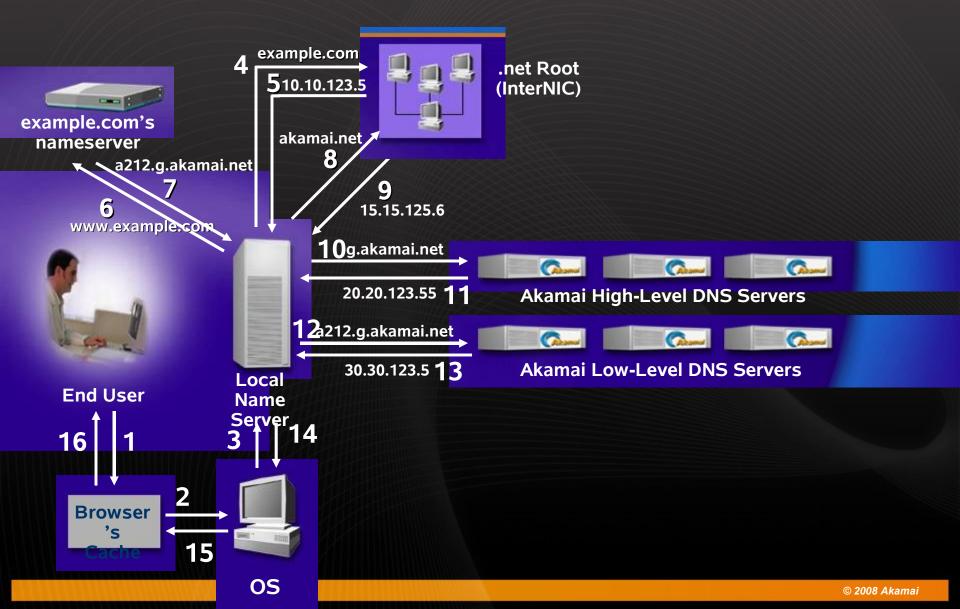


- User enters www.example.com
- Browser requests IP address for www.example.com
- DNS returns IP address of optimal Akamai server
- Browser requests HTML
- Akamai server assembles page, contacting customer Web server if necessary

- Optimal Akamai server returns Akamaized HTML
- Browser obtains IP address of optimal Akamai servers for embedded objects
- Browser obtains objects from optimal Akamai servers

Finding the IP Address: The Akamai Way





Akamai Accelerated Network Partner (AANP)



AANP Overview



This is a partership for free, a win-win for both sides!

With this partnership you can offer the most popular content from your network to our subscribers and customers without using peering points, other providers or international links.

Your subscribers and customers will be directed by Akamai's resolution algorithms to retrieve content from the Akamai edge servers within your network, thus eliminating the need to leave the local network.

How You Benefit



By placing servers inside your network, Akamai enables you to:

- * Deliver peak performance for maximum competitive advantage
- * Reduce transit bandwidth expense
- * Free up peering capacity
- * Increase subscriber satisfaction
- * Leverage customized network-monitoring tools
- * Take advantage of full technical and marketing support, with 24/7 network support

Typical Inbound – Outbound Ratio







- Massively optimized inbound/outbound traffic ratios
- Typically the ratio is inbound 1: 9 outbound

Inbound: traffic from the origin website server to the Akamai servers Outbound: traffic from the Akamai servers to your users

Requirements



Akamai

- provides the servers and technology
- takes care of the shipping costs
- will montior the servers
- if a server goes down, we'll send a replacement server
- continously monitor the capacity if sufficient

YOU provide

- rack space (i.e. One standard 19" rack, 600x800)
- uplink (ie. Multiple bonded GigEs or 10Gbps)
- IP addresses (i.e. /26)



