Redes distribuidas para la protección y el crecimiento de negocios en la Web

mai

Experience the Edge

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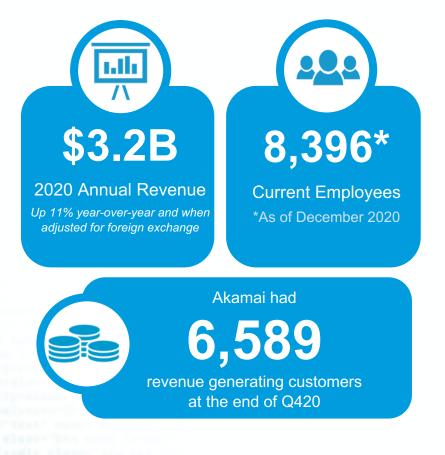
Greivin Viquez

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+506 83 28 65 65

Akamai Snapshot



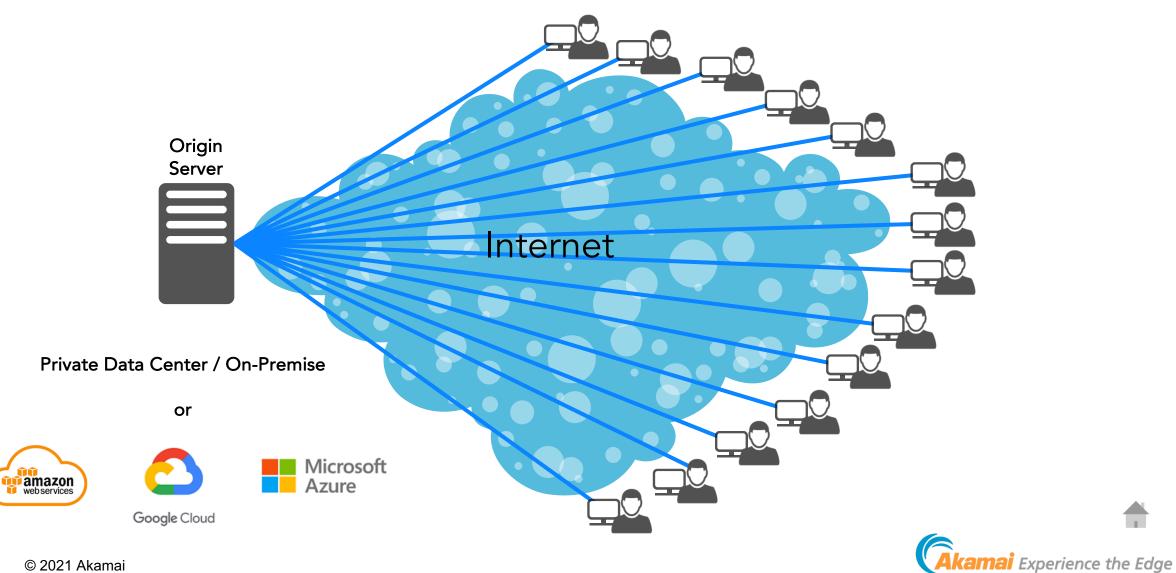
- Founded in 1998 (Nasdaq:AKAM), with HQ in Cambridge, Massachusetts
- Invented Content Delivery Network (CDN), that's Akamai Intelligent Platform
- Akamai Intelligent Platform has ~350K servers delivering 200 Tbps (March 2021) in over 135 countries
- Responsible of serving 40% of all web traffic
- 85% of the world's Internet users are within a single "network hop" of Akamai's CDN

¿What is a Content Delivery Network (CDN) / Red distribuida? select { c / hostTokens := strings

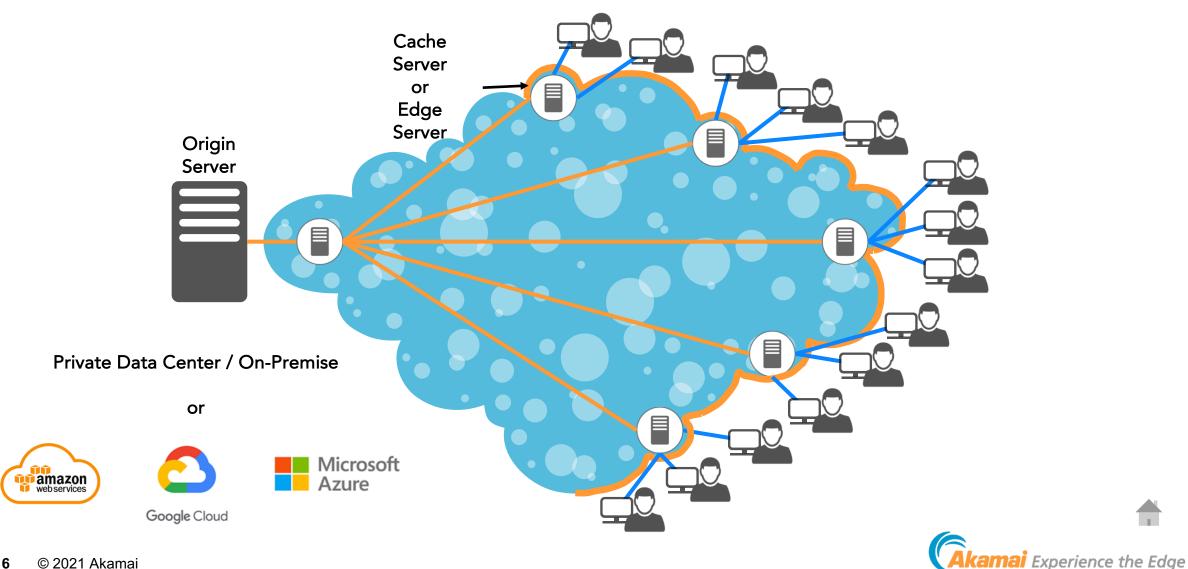




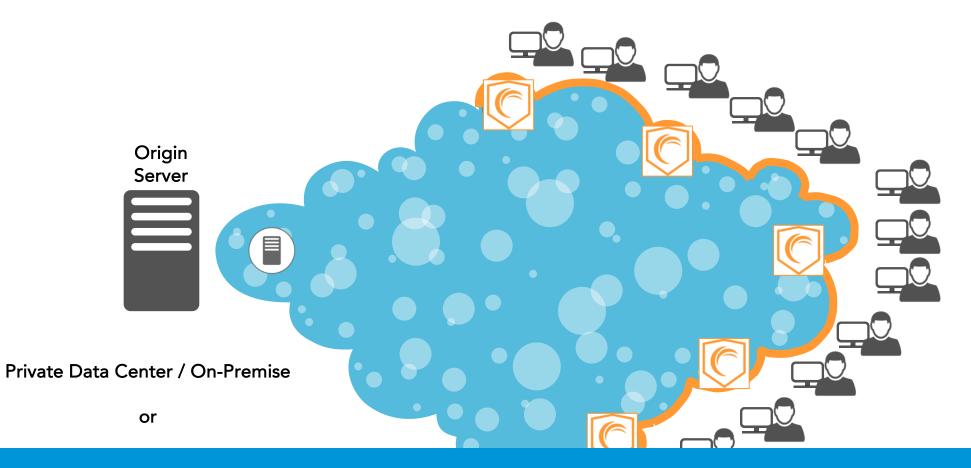
Delivering content without a CDN



Delivering content <u>with</u> a CDN from the Edge



Delivering content with a CDN from the Edge+Security



Moving content closer to your users and offload your origin server





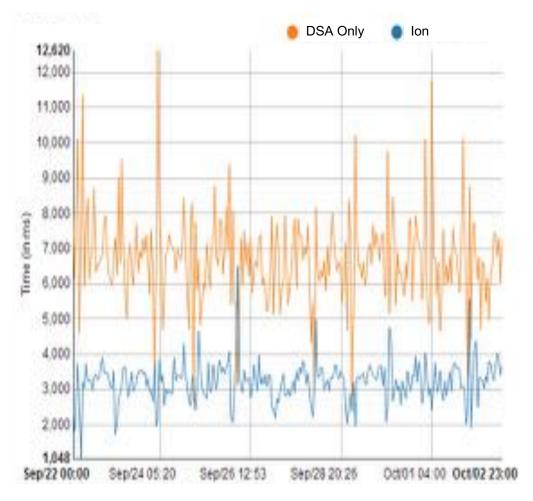




Casos de Negocio ! annel); for { select { c */ hostTokens := strings



M and M Direct Delivers Fast, Quality Experiences with Akamai



Akamai Real User Monitoring

UK Users, UK Origin RWD Site





avg. performance improvement over DSA

Median:

DSA Only: 6,771 ms

lon: 3,338 ms

Savings of 3,433 ms

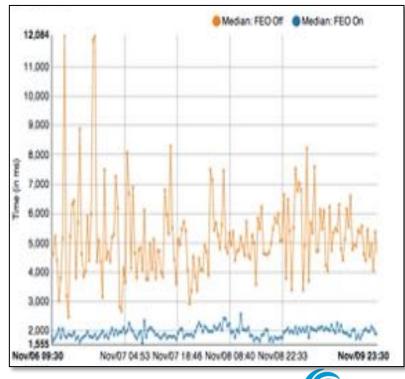


Decker's Outdoor Corporation

- www.uggaustralia.com
- Responsive site, delivered with Ion
- Median perf improvement: **153%**
- DSA: 4.93s, Ion: 1.95s (11/5 – 11/12)
- Deal signed 8/23
- Fully integrated with DPC and FEO 10/15

FEO On		
	Sample Size:	91,689
	Median:	1,354 ms
FEO Of		
	Sample Size:	7,499
	Median	4,935 ms





Camai Experience the Edge



The Ransom letter

Why do 1

Subject	DDOS ATTACK
From:	Armada Collective <sender [dot]com="" address="" email=""> + randomized</sender>
FORWAR	RD THIS MAIL TO WHOEVER IS IMPORTANT IN YOUR COMPANY AND CAN MAKE
We are A	umada Collective.
http://img	tty.com/?q=Armada+Collective
All your s	ervers will be DDoS-ed starting Monday (March 14) if you
	protection - 25 Bitcoins @ bitcoin wallet account randomized
ALL! USE	ERS WILL NOT BE ABLE TO USE YOUR SERVICES!
	n't pay by Monday, attack will start, price to stop will to 50 BTC and will go up 20 BTC for every day of attack.
This is no	t a loba
220 E 17 21	ks are extremely powerful - sometimes over 1 Tbps per second.
	weap protection will help.
Preventi	t all with just 25 BTC @ bitcoin wallet account
	ply, we will not read. Pay and we will know its you. AND YOU VER AGAIN HEAR FROM US!
10000	anonymous, nobody will ever know you cooperated.
CHING ON 1 10	any prove, needed with the sea cooperated.

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Banco de Chile

Hackeo interno en el Banco de Chile: informático robó 475 millones de pesos usando su PC

https://www.biobiochile.cl/especial/noticias/reportajes/reportajes-reportajes/2018/07/18/hackeo-interno-en-el-banco-de-chile-informatico-robo-475-millones-de-pesos-usando-su



Bw

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	Hackers 'tumban' el portal del SAT El ataque cibernético a la página del SAT se lo atribuye Anonymous México, según lo publicó en sus redes sociales. El portal del SAT aparece intermitente.						
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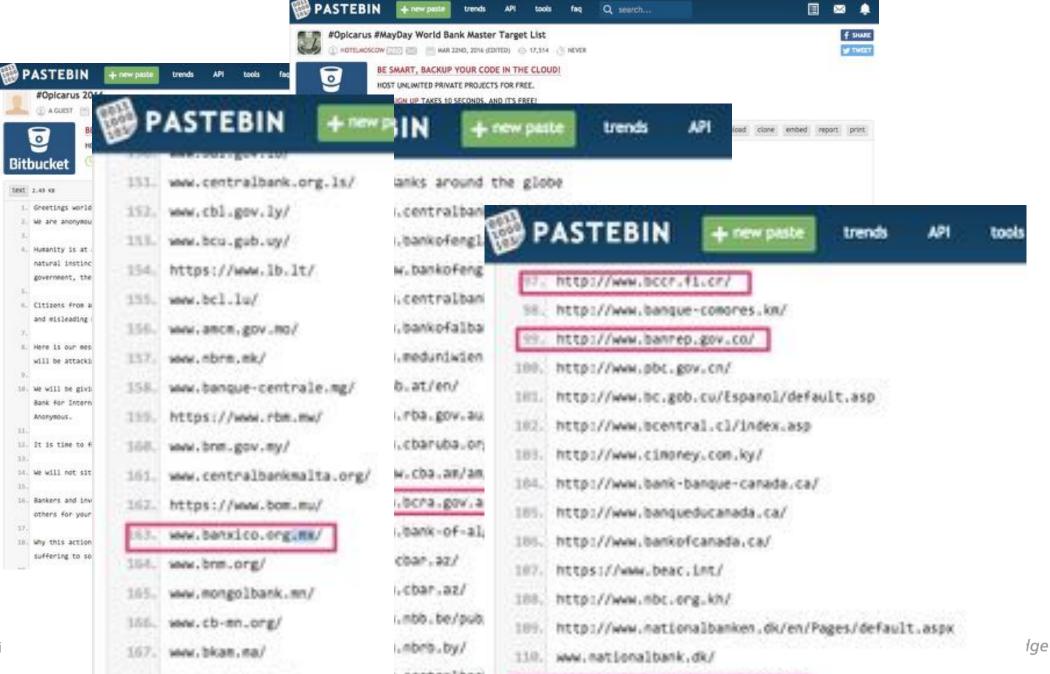












BroBot in Action

InformationWeek Security

NEWS

Banks Hit Downtime Milestone In DDoS Attacks



Top 15 U.S. banks have experienced double the downtime from same period last year. Lawmakers demand passage of a cyber threat intelligence sharing bill.



Gartner.

explored



NBC: Iran reportedly behind cyber attacks on U.S. banks

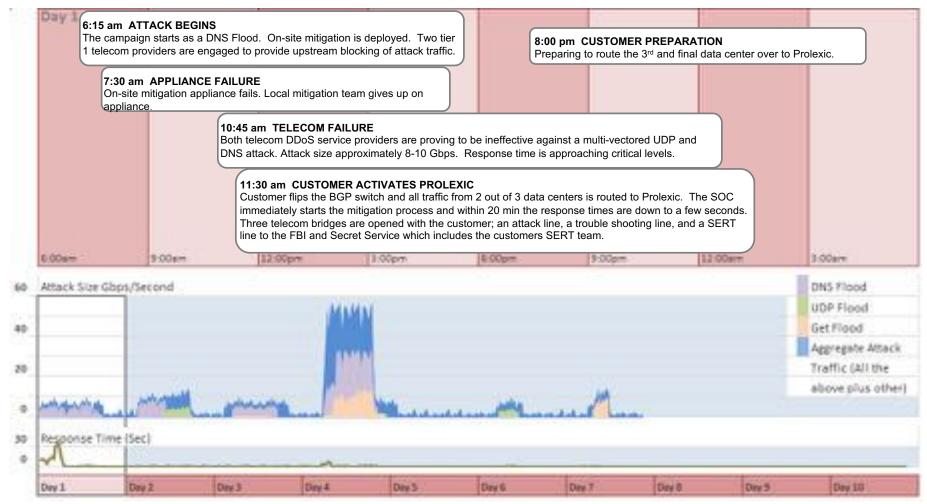
DDOS attacks against U.S. Banks continue – linkages

DDoS Attacks on Major Banks Causing Problems for Customers

Akamai Experience the Edge

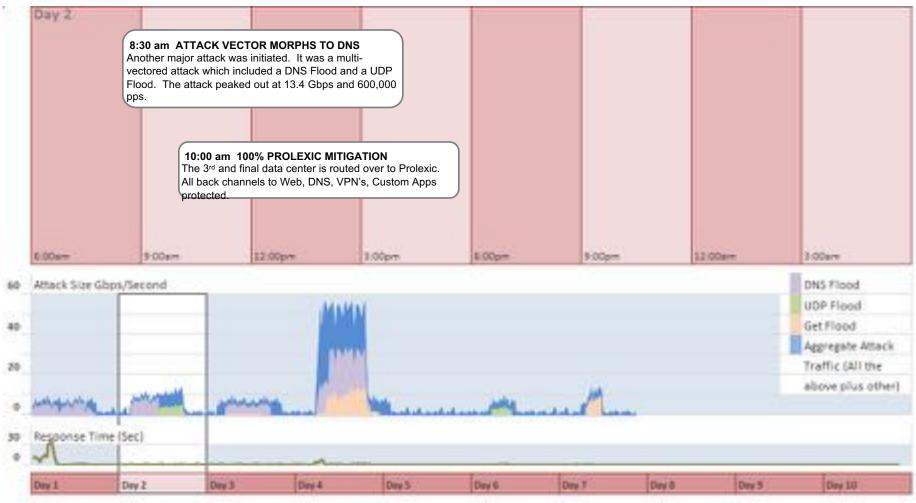
21 © 2021 Akamai

Case study 1: First Brobot Attack DDoS campaign day 1 – large financial customer JAN 2012



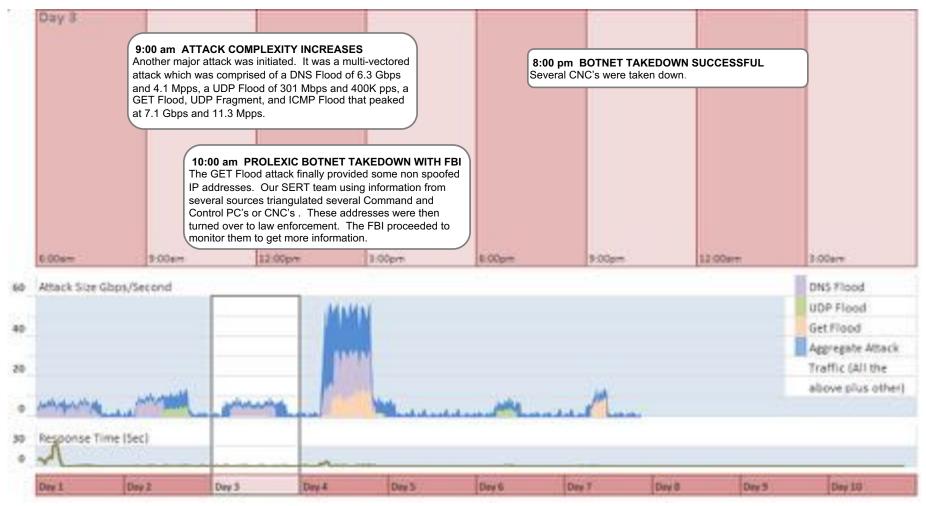


DDoS campaign day 2 – large financial customer



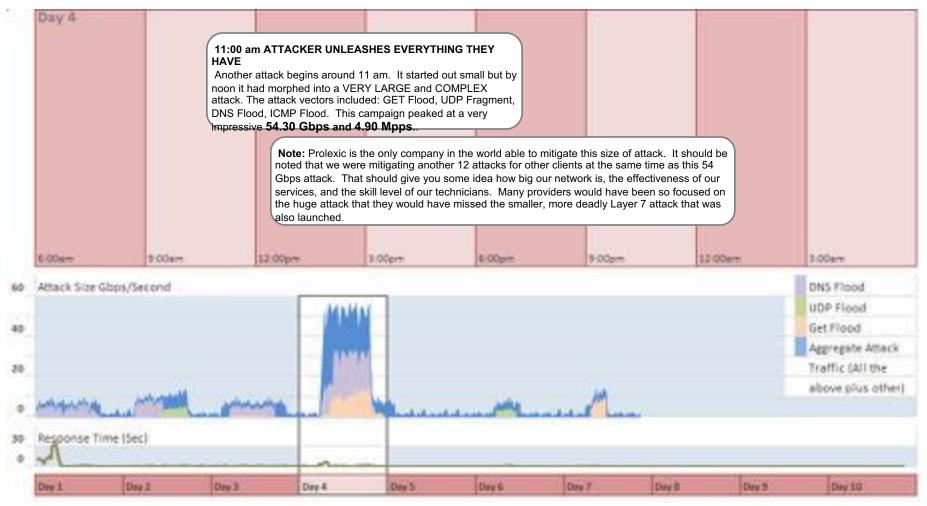


DDoS campaign day 3 – large financial customer



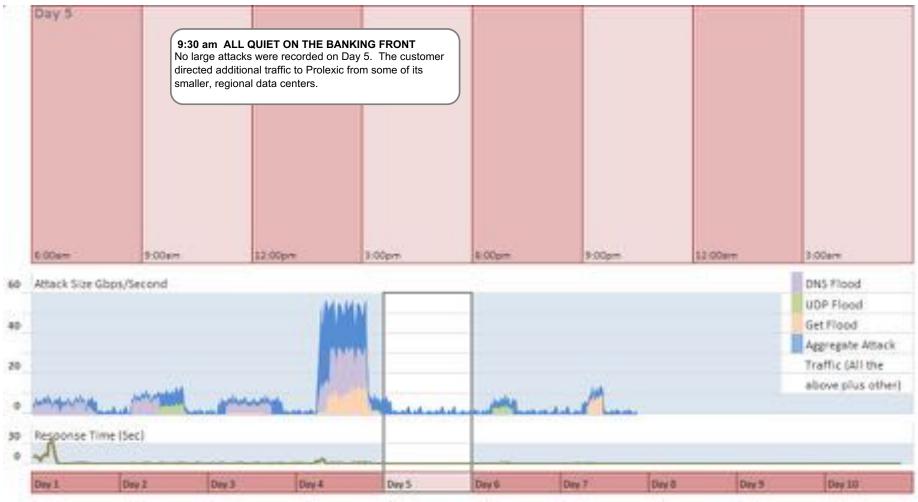


DDoS campaign day 4 – large financial customer



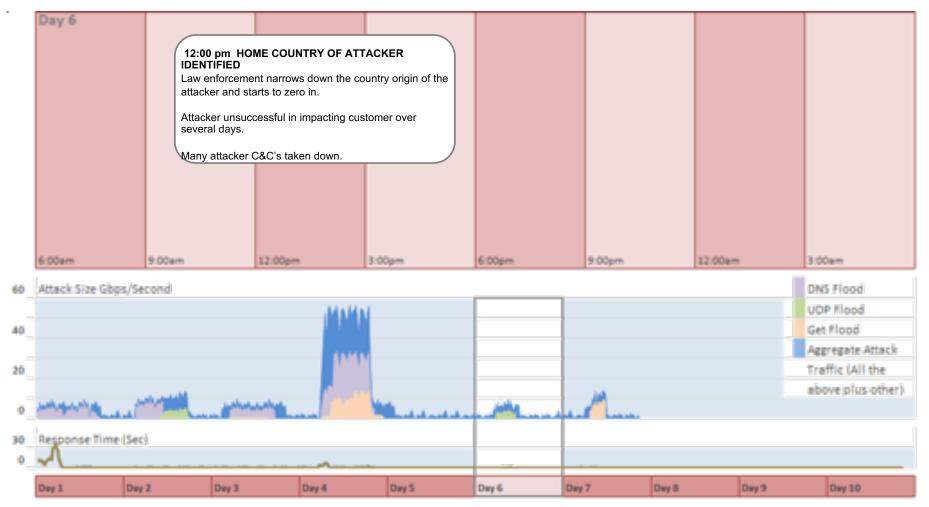


DDoS campaign day 5 – large financial customer



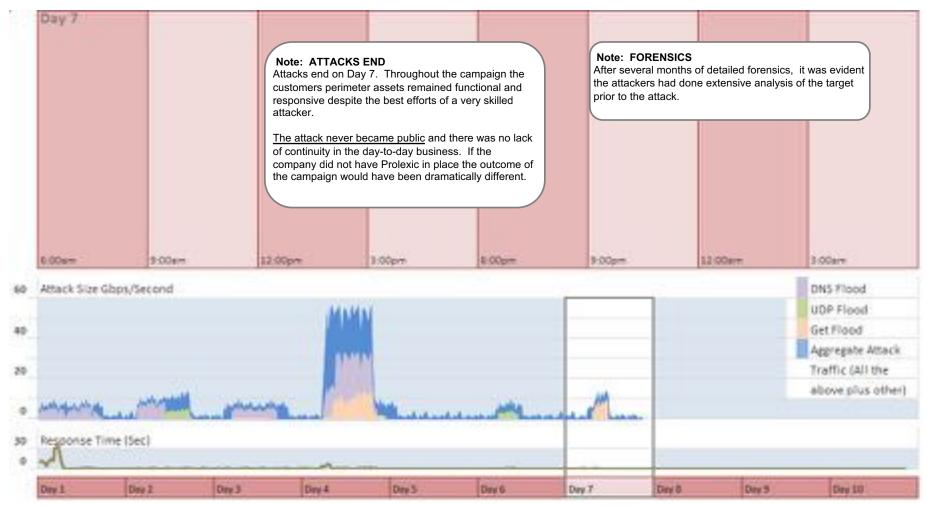


DDoS campaign day 6 – large financial customer





DDoS campaign day 7 – large financial customer





Case Study – Stock Exchange DDoS Attack Reducing Risk, Protecting the Brand

- Attack on Akamai stock exchange customer.
- Peak attack traffic was 26 Gbps, 170x normal.
- Page Views peaked at over 260,000 per second, 280x normal.





DDoS Attack – Stock Exchange

- Akamai Offloaded over 99% of bandwidth during the attack, protecting the site.
- Origin bandwidth peaked at only 53 Mbps.



30 © 2021 Akamai

Operation Ababil

"none of the U.S banks will be safe from our attacks"

Phase 1

Sep 12 – Early Nov 2012

- DNS Packets with "A" payload
- Limited Layer 7 attacks
- Began use of HTTP dynamic content to circumvent static caching defenses

Phase 2

Dec 12, 2012 - Jan 29

- Incorporate random query strings and values
- Additions to bot army
- Burst probes to bypass rate-limiting controls
- Addition of valid argument names, random values

Phase 3

Late Feb 2013 – May 2013

- Increased focus on Layer 7 attacks
- Larger botnet
- Highly distributed
- Target banks where attacks work
- Fraudsters take advantage

Phase 4

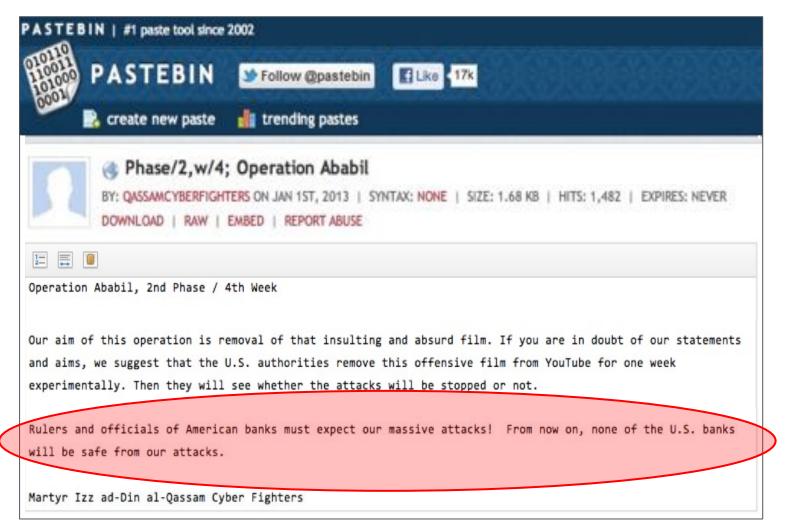
July 2013 – Now

- Updated attack scripts, harder to understand
- Requests look more like normal browsers



Operation Ababil / 2nd Phase / 4th Week

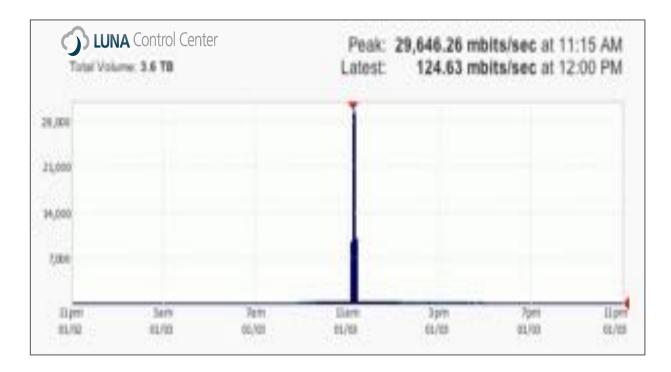
"none of the U.S banks will be safe from our attacks."





January 3, 2013 – Massive Banking DDoS Attack *Always-on Protection*

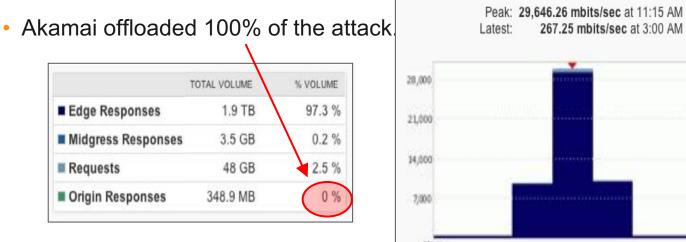
- Top financial services firm with nearly 10M customers.
- Peak attack traffic was 30 Gbps, 30x normal daily high traffic.
- Attackers gave up after 15 minutes, and moved attack to another bank.
- 100% of the attack was on SSL.





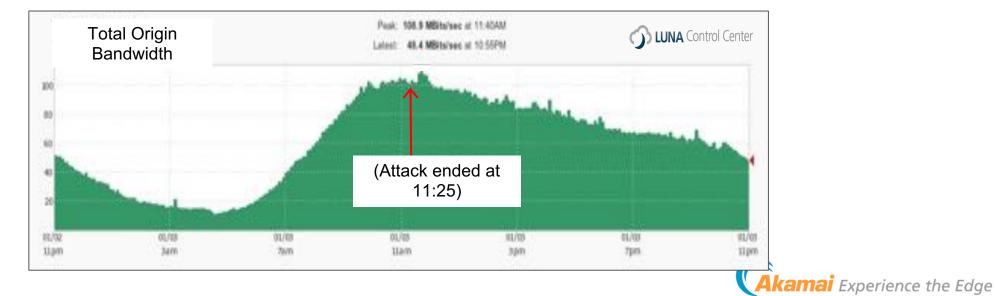
Bank #1

Massive Banking DDoS Attack



• "A bug impacting our windshield".

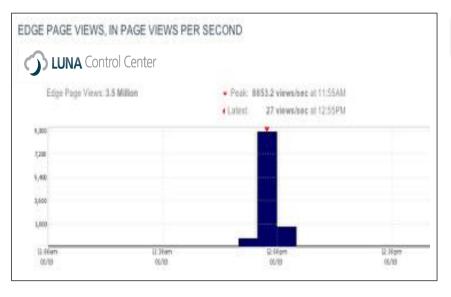


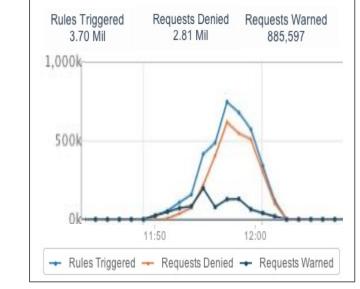




Massive Banking DDoS Attack

 "Probe" attack was then seen at another bank 25 minutes later.





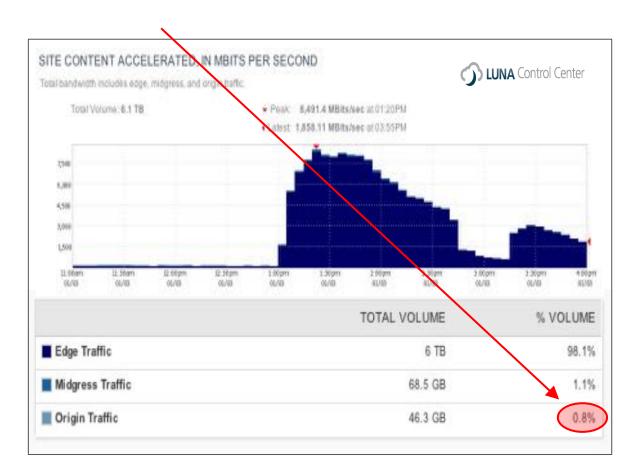


 Akamai Kona in place, and rate controls automatically activated.



Massive Banking DDoS Attack

- 60 minutes later, 8 Gbps attack seen on a 3rd customer.
- 100% of the attack was on SSL.
- Akamai offload was over 99%

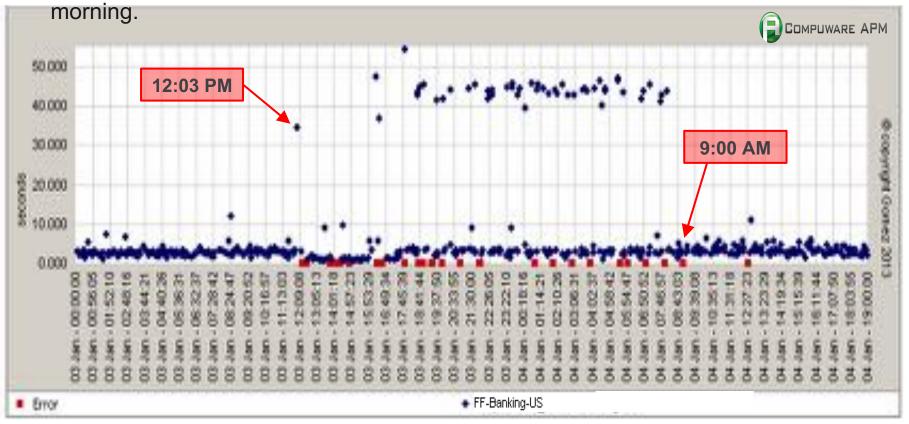


Bank #3

Non-Akamai bank hit at 12:03 PM Compuware benchmark of bank home page, measured from 12 cities 1x p

hour.

- First performance hit recorded at 12:03 PM.
- Performance and availability problems continued to 9:00 AM the following

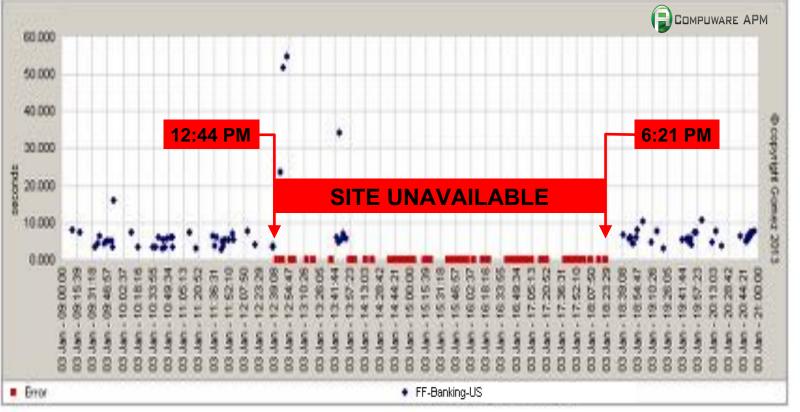




Non-Akamai bank attacked at 12:44 PM.

Bank #5

- Attack continued to 6:21 PM.
- Bank attacked numerous times after January 3.



Questions?





Gracias!

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