



Cybersecurity: trend emergenti a livello globale
L'intelligence come strumento di prevenzione e contrasto

Alessandro Livrea- Country Manager- Akamai Italia



Una piattaforma Globale

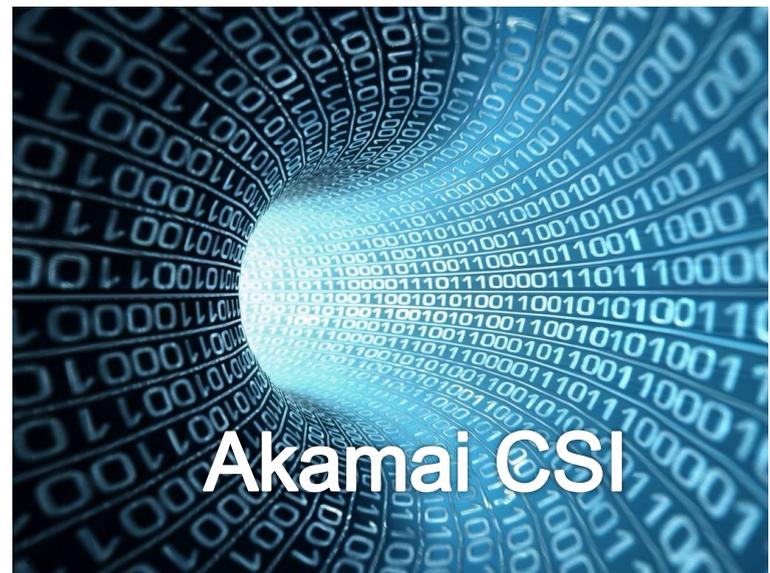
216,000+ servers

1,500+ networks

120+ paesi

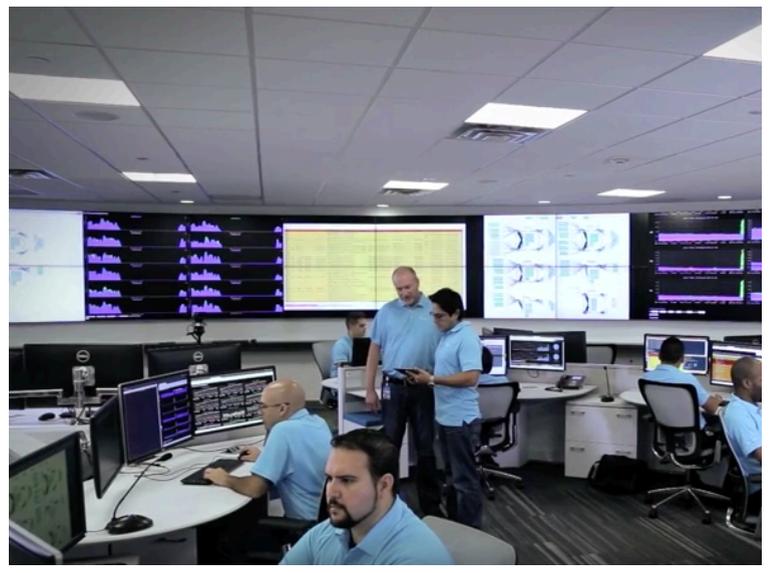
3,300 locations

Da dove arrivano i dati che vedremo?

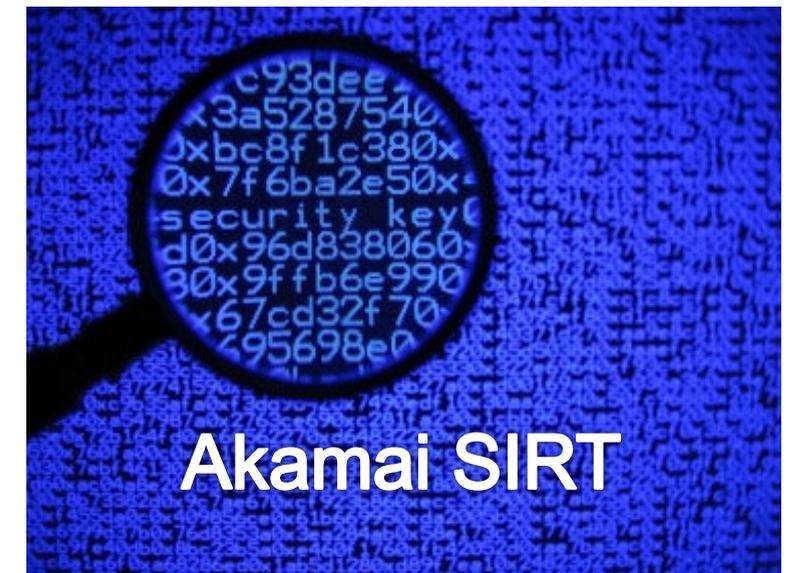


Akamai CSI

Kona WAF
Web Application Attacks
Machine Generated



Prolexic Routed
SOC
Human



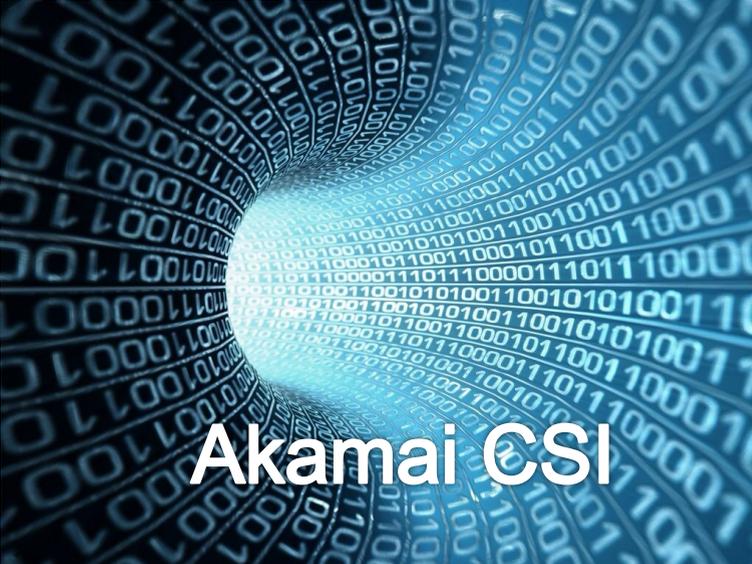
Akamai SIRT

A hand holding a globe with binary data and green light trails. The globe is the central focus, with a hand visible at the bottom. The background is dark with green light trails and binary code. The text is overlaid on the right side of the image.

2000 miliardi di Hits al giorno

1 Miliardo di IP a trimestre

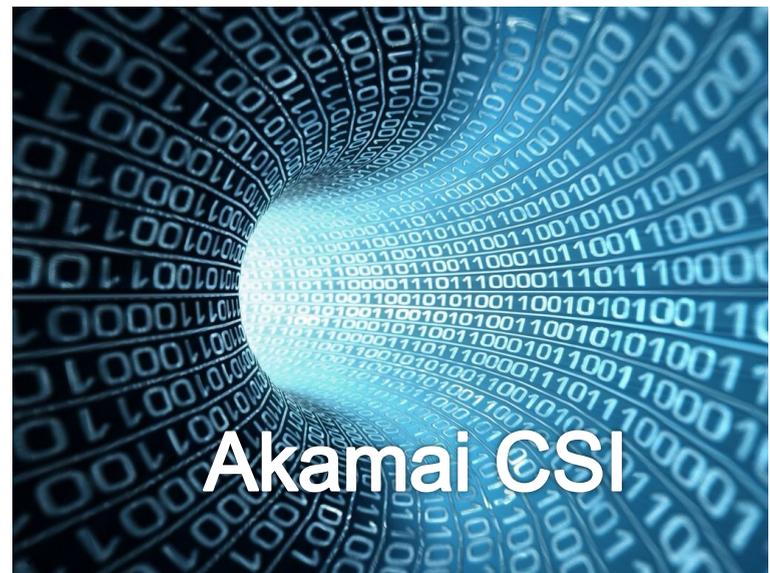
Oltre 2 Petabytes di dati inerenti la
sicurezza

The Akamai CSI logo is a square with a blue background. It features a tunnel of binary code (0s and 1s) that recedes into the distance, creating a sense of depth. The text "Akamai CSI" is written in white, bold, sans-serif font across the middle of the tunnel.

Akamai CSI

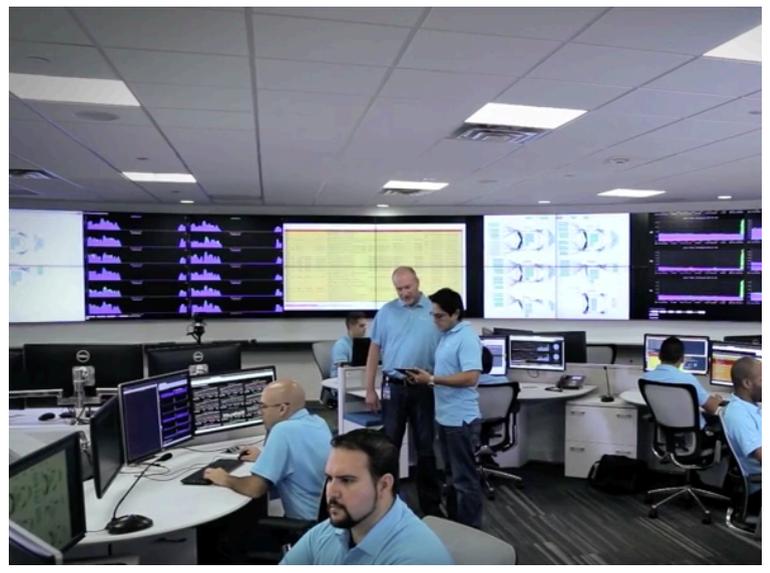
20 Terabytes di dati al giorno su attacchi

Da dove arrivano i dati che vedremo?

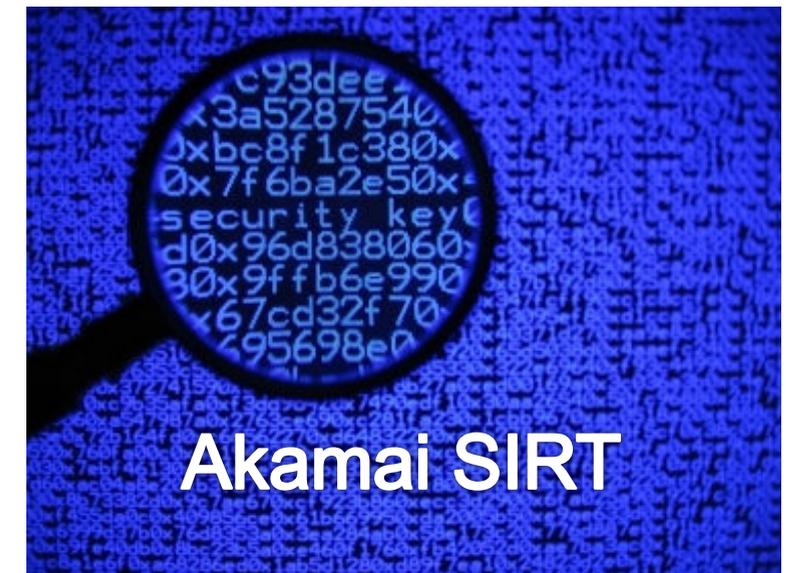


Akamai CSI

Kona WAF
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Akamai SIRT

9 Common Web Attack Vectors



[SQLi](#) / SQL injection: User content is passed to an SQL statement without proper validation

[LFI](#) / Local file inclusion: Gains unauthorized read access to local files on the web server

[RFI](#) / Remote file inclusion: Abuse of the dynamic file include mechanism available in many programming languages to load remote malicious code into the victim web application

[PHPi](#) / PHP injection: Injects PHP code that gets executed by the PHP interpreter

[CMDi](#) / Command injection: Executes arbitrary shell commands on the target system

[JAVAi](#) / Java injection: Abuses the Object Graph Navigation Language (OGNL), a Java expression language. Popular due to recent flaws in the Java-based Struts Framework, which uses OGNL extensively

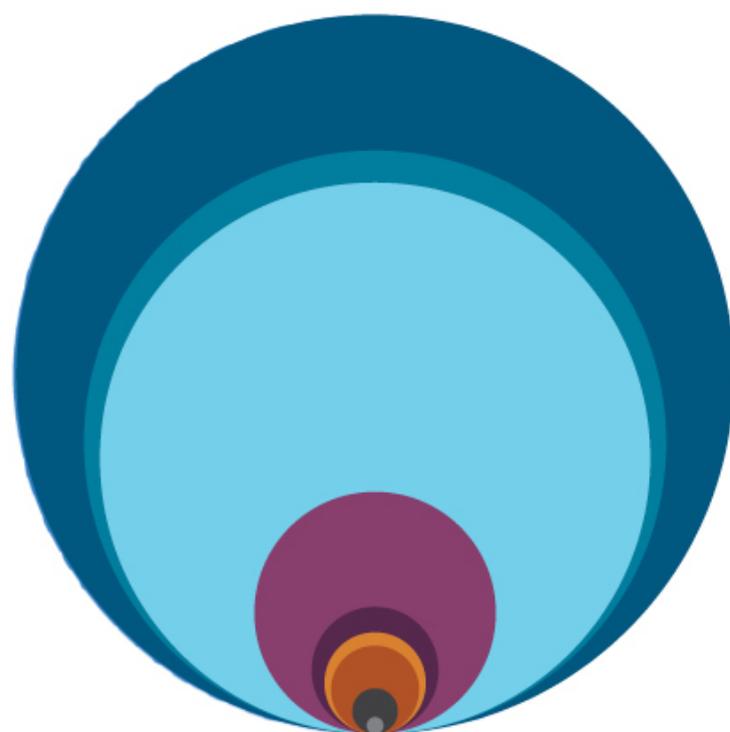
[MFU](#) / Malicious file upload (or unrestricted file upload): Uploads unauthorized files to the target application that may be used later to gain full control over the system

[XSS](#) / Cross-site scripting: Injects client-side code into web pages viewed by others whose browsers execute the code within the security context (or zone) of the hosting web site. Reads, modifies and/or transmits data accessible by the browser

[Shellshock](#) / Disclosed in September 2014: A vulnerability in the Bash shell (the default shell for Linux and mac OS X) that allows for arbitrary command execution by a remote attacker

Attacchi applicativi rispetto al Q3 2015

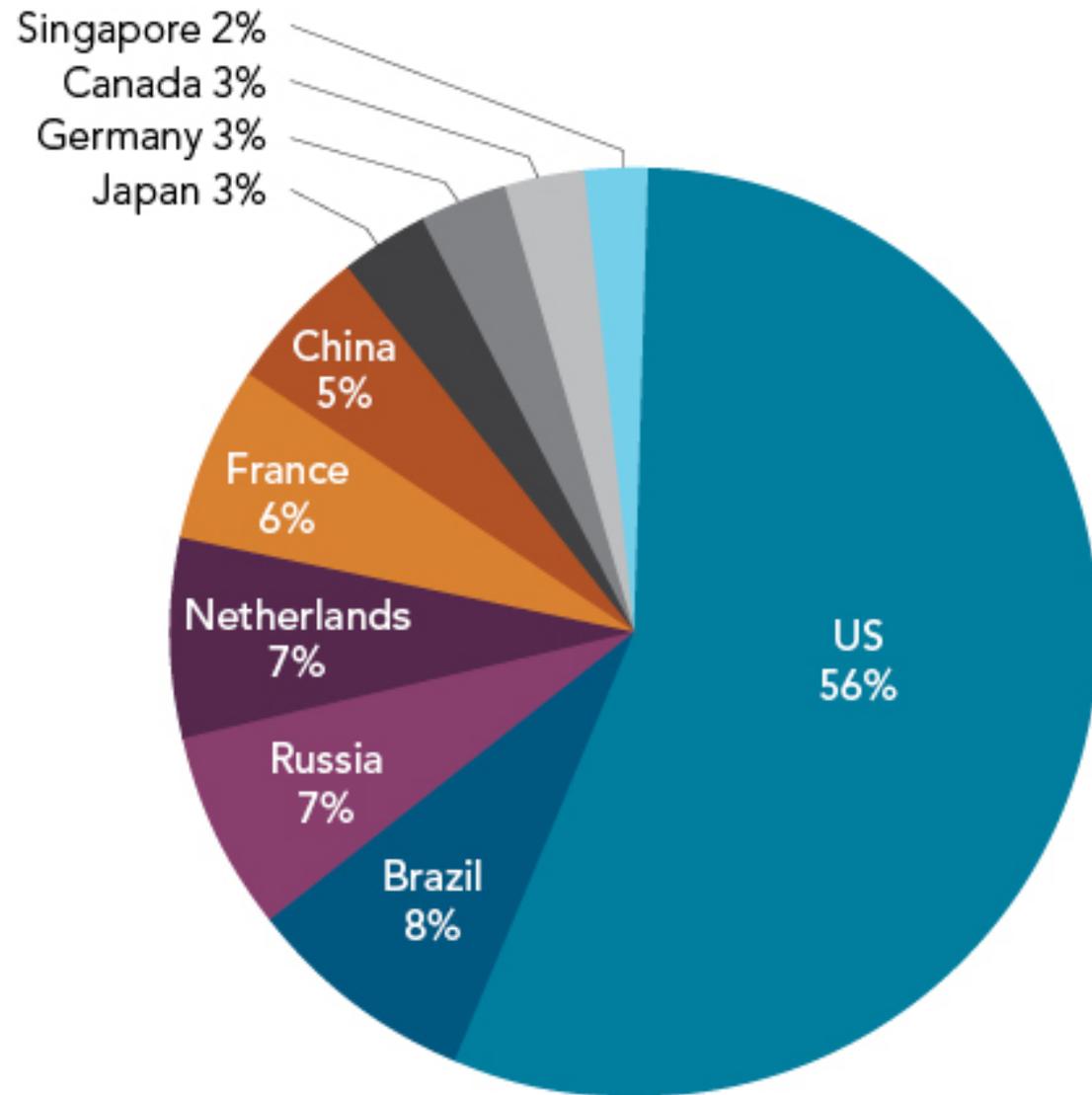
- 28 % ↑ Attacchi di tipo applicativo
- 28% ↑ Attacchi su protocollo HTTP
- 24% ↑ Attacchi su protocollo HTTPS



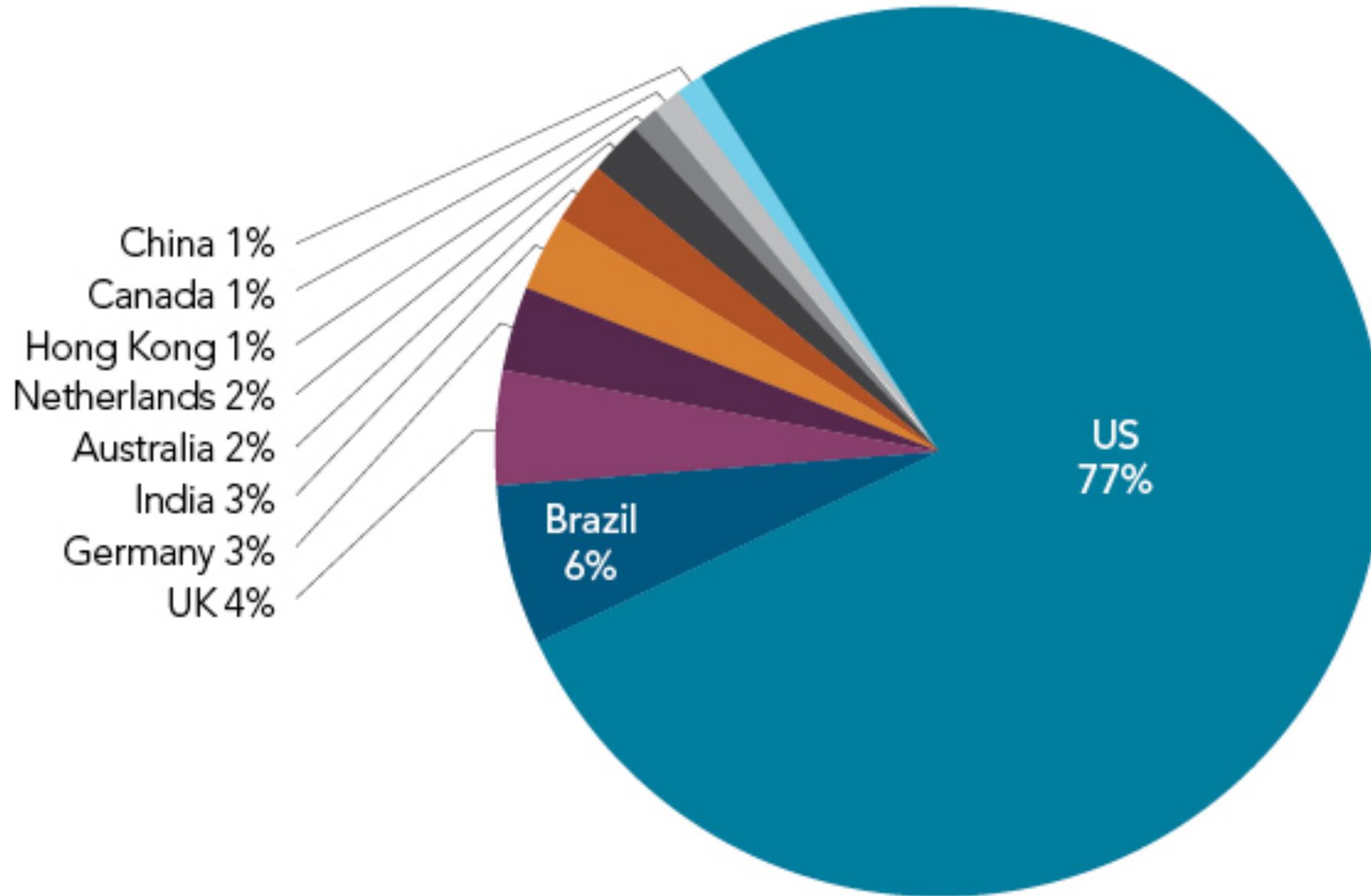
■ LFI 41.05%
■ SQLi 27.00%
■ PHPi 24.32%
■ XSS 4.70%
■ Shellshock 1.28%

■ RFI 0.82%
■ MFU 0.63%
■ CMDi 0.17%
■ JAVAi 0.02%

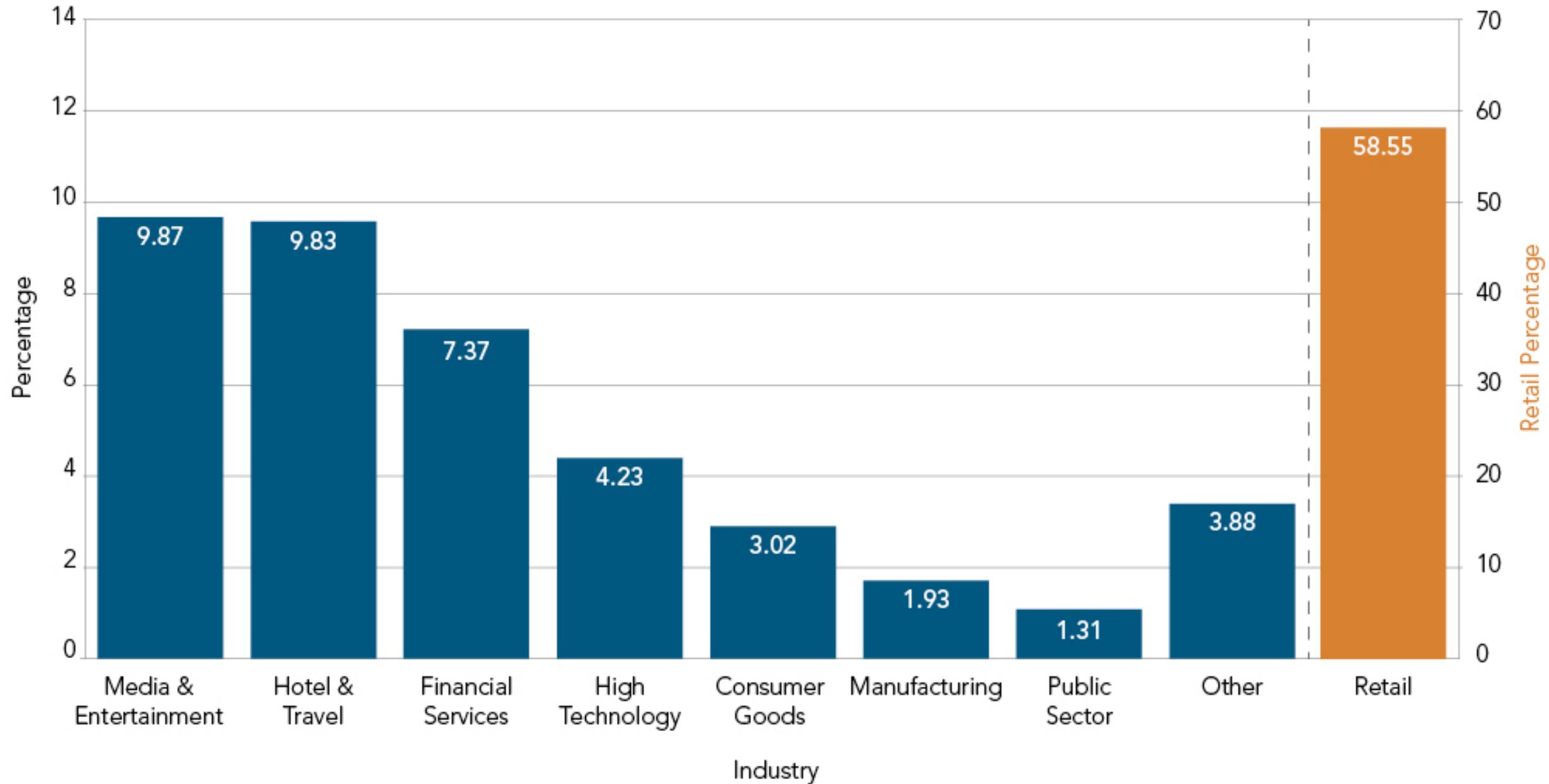
Principali fonti di attacco applicativo, Q4 2015



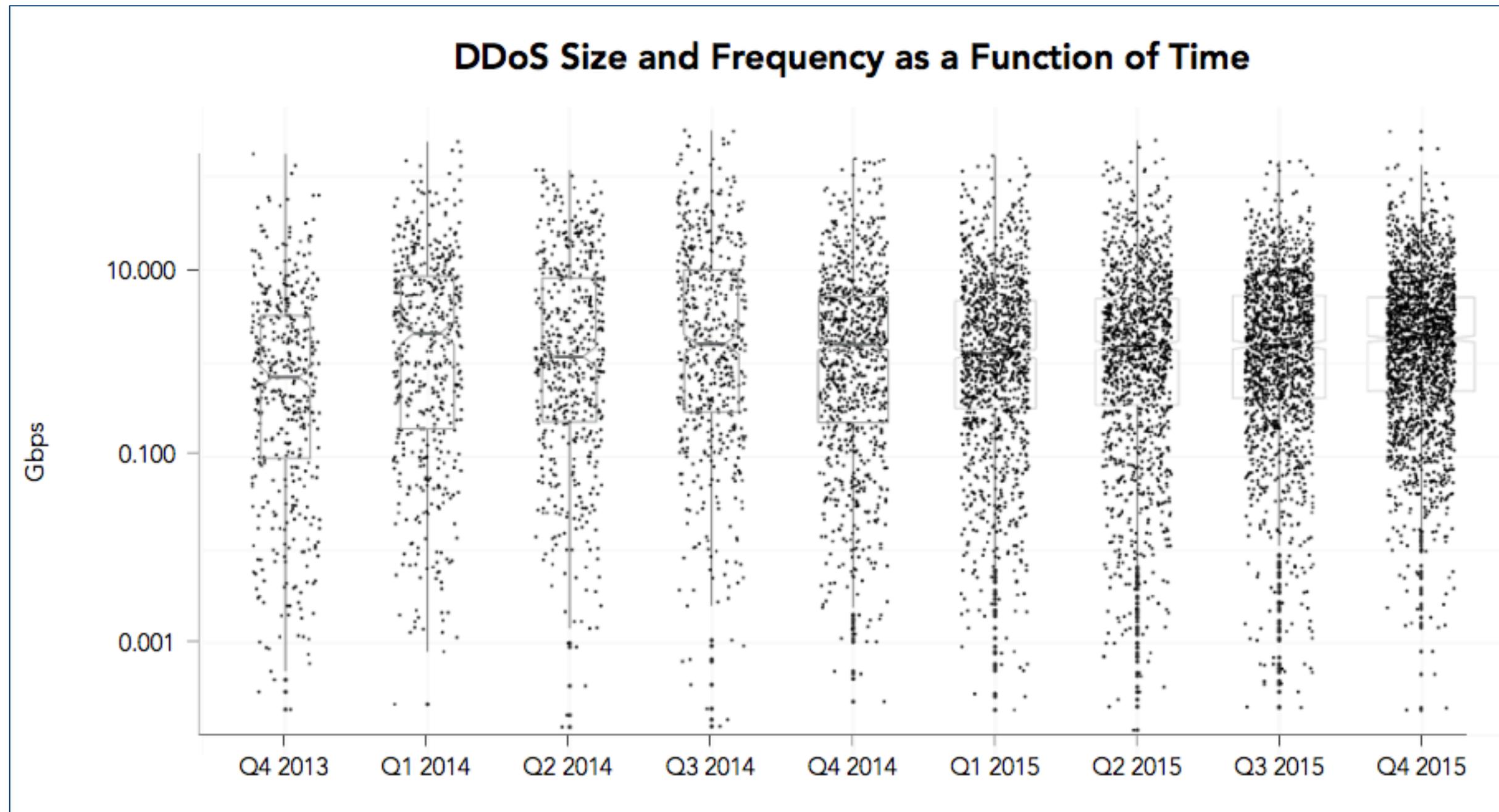
Top 10 Paesi Target, Q4 2015



Attacchi di tipo applicativo per Industry, Q4 2015



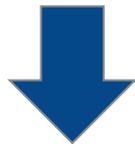
DDoS: Attacchi come mai prima



Single attacker

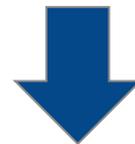


Botnet (PC and servers infected by malware)



Reflection attacks

- Increase in attack volume



Booter / Stresser

- Low cost and simple payment options
- “Stress test”

i Due to a large number recent purchases made with stolen PayPal accounts and Credit Cards, all new purchases will be reviewed. If we suspect that a purchase was made using stolen information, the purchase will be refunded.

Purchase

***Prices Reflect One Time Referral Discount (25% Off)**

Economy

600 Seconds
(10 Minutes)

500 Mbps

1 Month (25% Off) ▾

~~\$5.00~~ **\$3.75 USD**
(Save \$1.25 USD)

Add To Cart

Deluxe

1800 Seconds
(30 Minutes)

1500 Mbps

1 Month (25% Off) ▾

~~\$15.00~~ **\$11.25 USD**
(Save \$3.75 USD)

Add To Cart

Ultimate

3600 Seconds
(60 Minutes)

3000 Mbps

1 Month (25% Off) ▾

~~\$30.00~~ **\$22.50 USD**
(Save \$7.50 USD)

Add To Cart

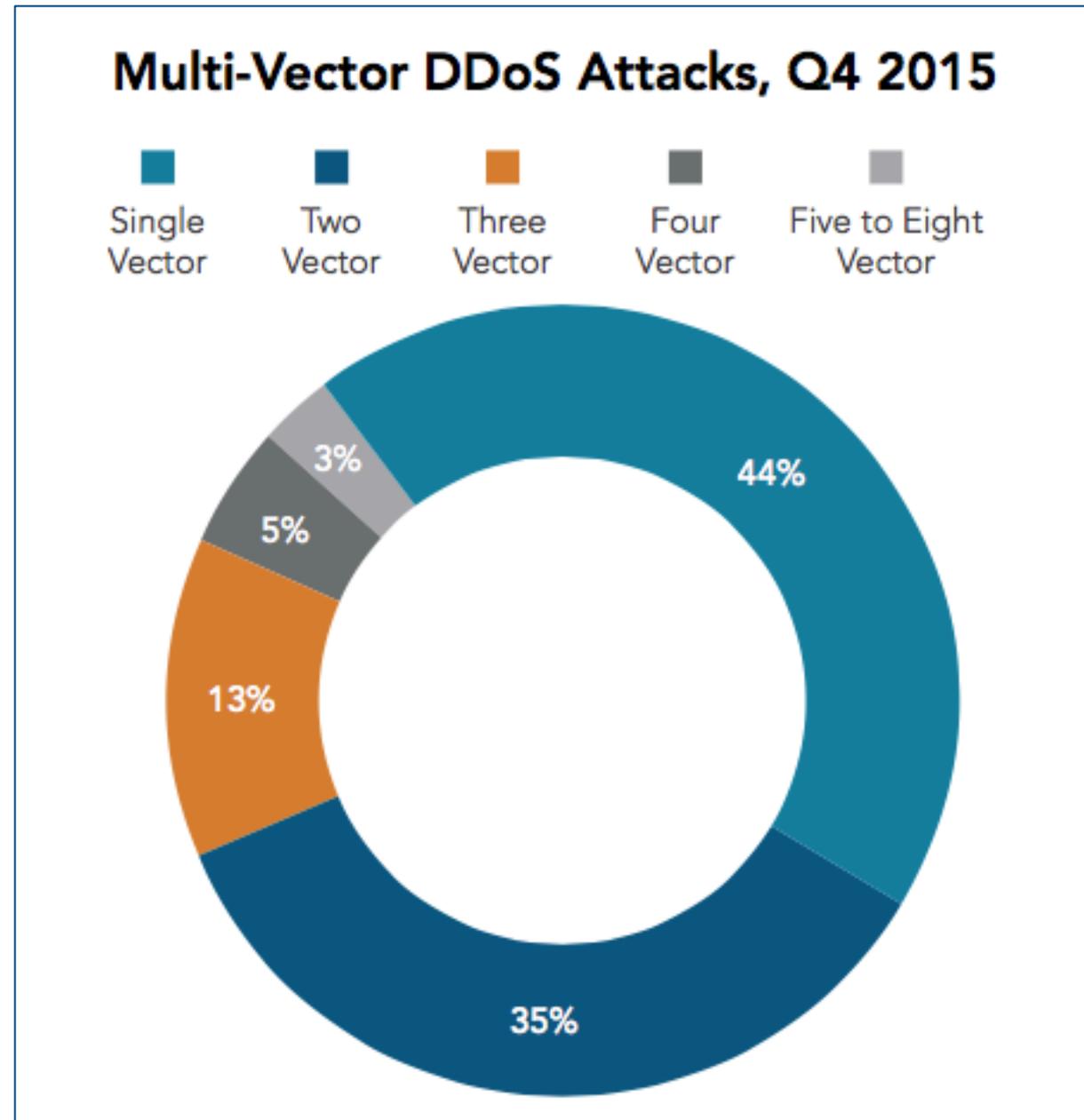


Build Your Own Plan

Maximum Duration: Seconds (10 Minutes)



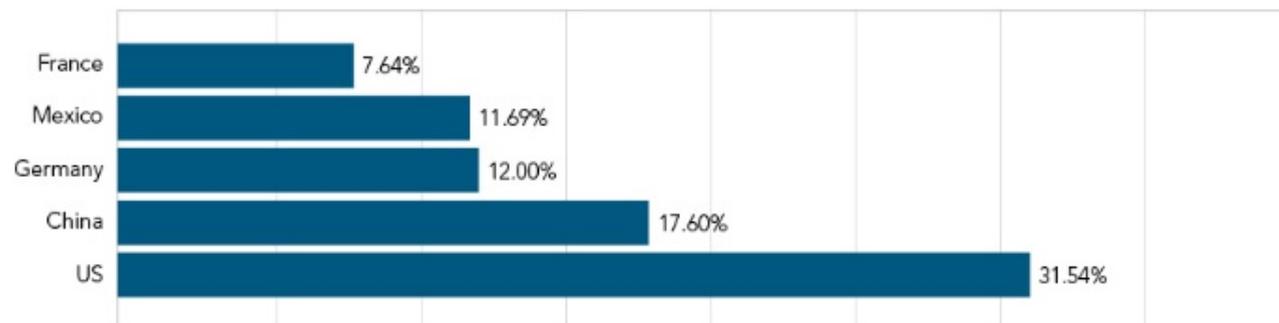
Booter-Stresser come strumenti di attacco multivettoriale



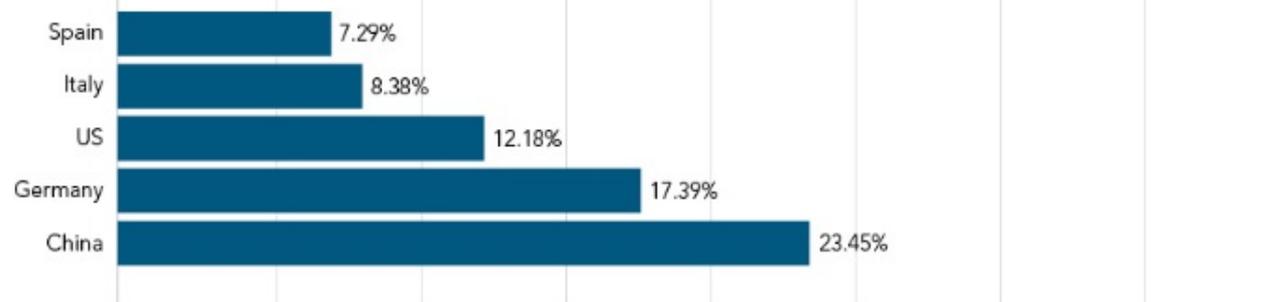
Top 5 Paesi fonte di attacchi DDoS, Q4 2014 - Q4 2015



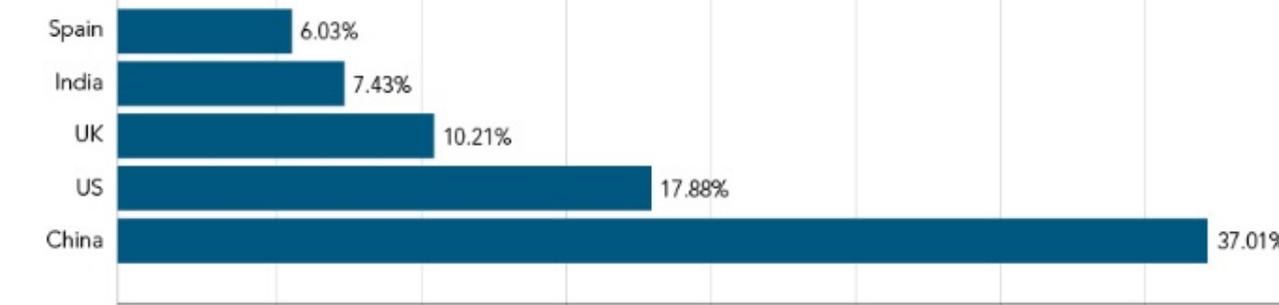
Q4 2014



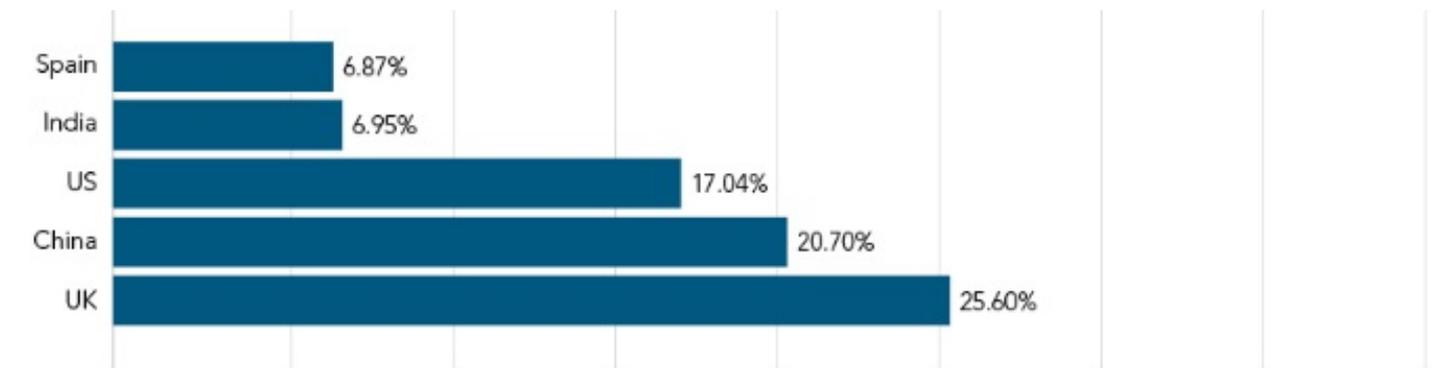
Q1 2015



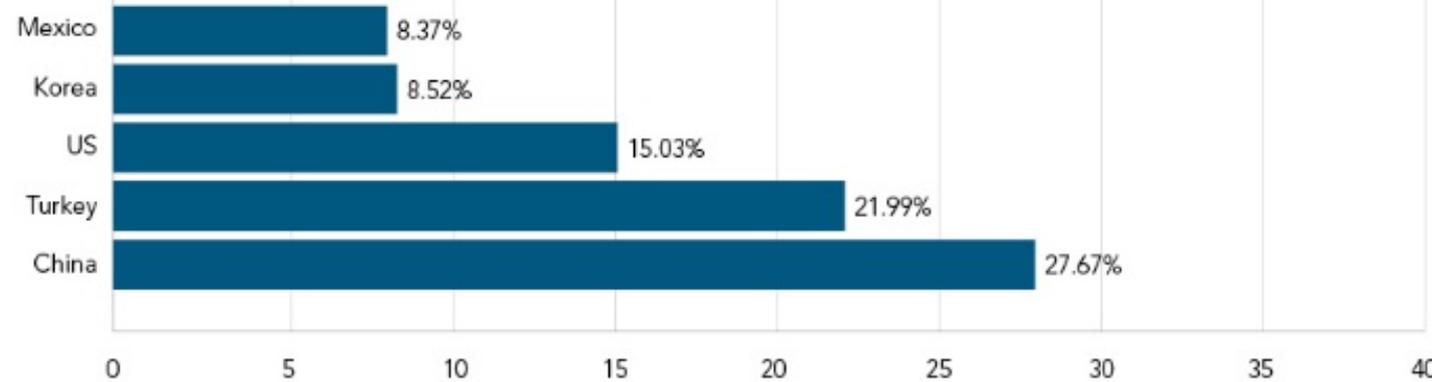
Q2 2015



Q3 2015

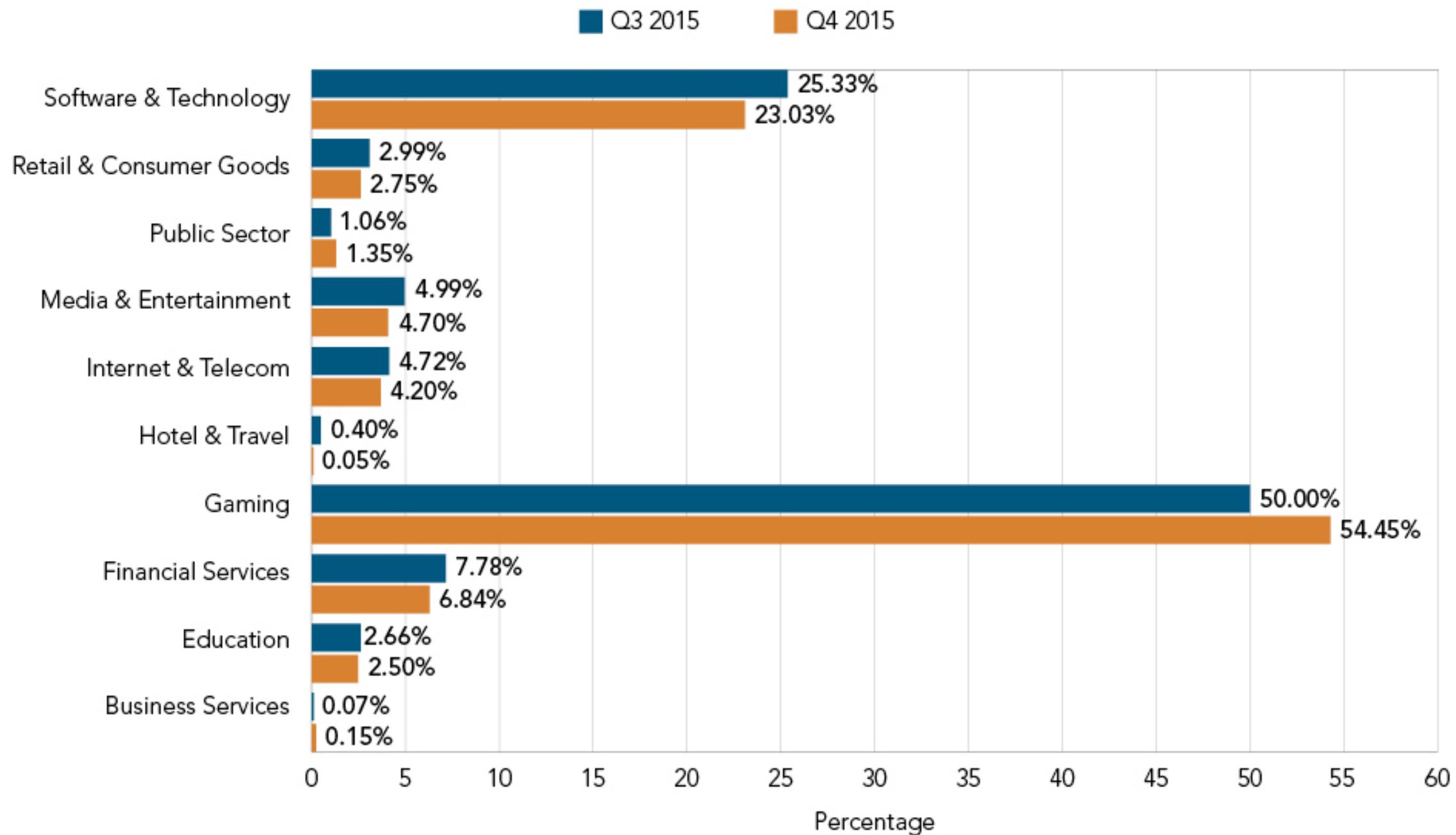


Q4 2015



USA e China sono state le principali fonti di attacco per 5 trimestri ma...

Frequenza attacchi DDoS per Industry



PASTEBIN | #1 paste tool since 2002

Suspected Members of Bitcoin Extortion

From: Armada Collective <armatacollective@gmail.com>

Date: [redacted]



The Eu
has an
denial-

Europo
arreste
called
deman
attacks
Web-ba

Authori
the US

From: Armada Collective <armatacollective@gmail.com>

Date: [redacted]

To: [redacted]

Subject: [redacted]

FOR [redacted]

We [redacted]

You [redacted]

If yo [redacted]

will [redacted]

This [redacted]

Our [redacted]

othe [redacted]

So, [redacted]

Pre [redacted]

Do [redacted]

PASTEBIN + new paste trends API tools faq deals search...

BitBucket - Backup your code in the cloud! Host unlimited private projects, for free. SIGN UP takes 10 seconds, and it's free!

#OpIcarus 2016 A GUEST APR 28TH, 2016 54,335 NEVER SHARE TWEET

PhpStorm TRY PHPSTORM - THE PHP IDE THAT GETS YOUR CODE. FREE TRIAL. Get a free trial

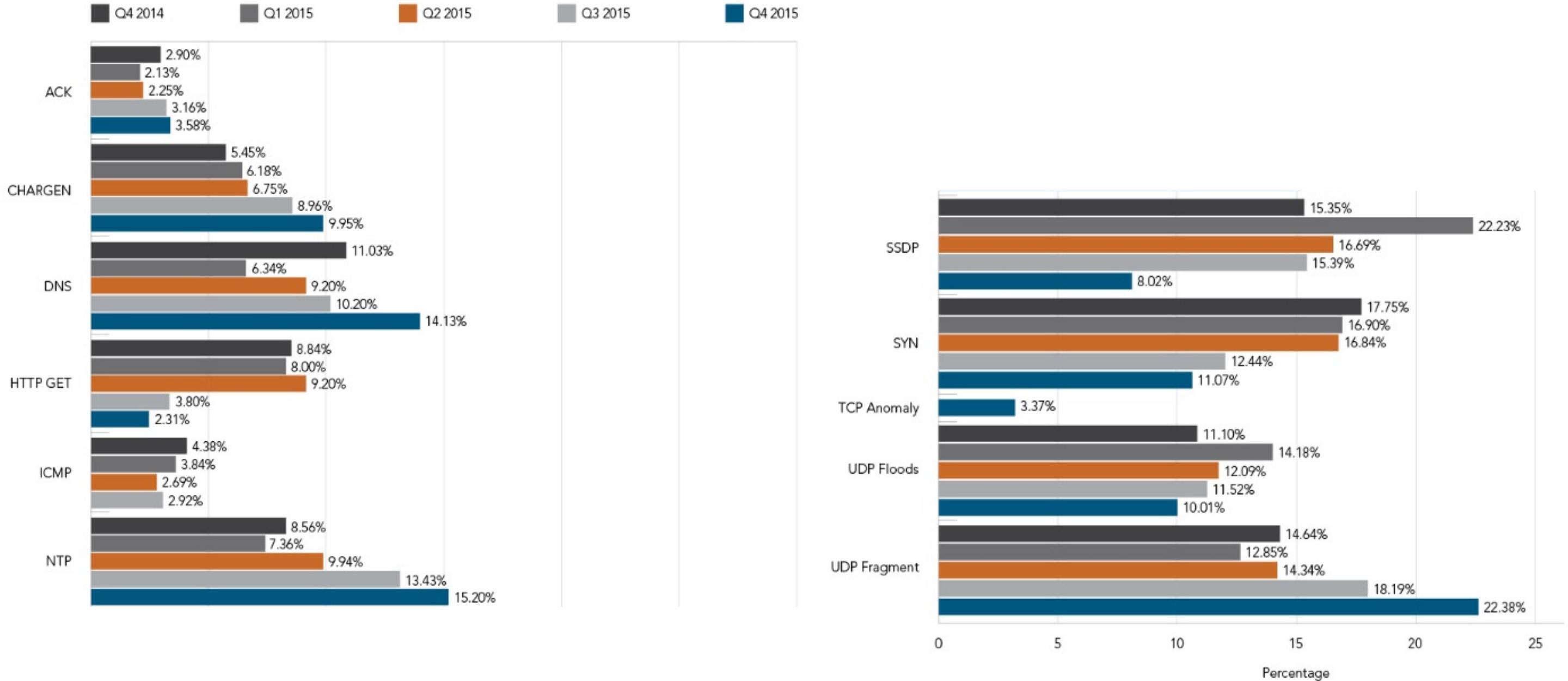
text 2.49 KB raw download clone embed report print

1. Greetings world,
2. We are anonymous..
- 3.
4. Humanity is at a periodic climax of industrial revolution technologically advancing in all ways imaginable yet we still cannot get past our natural instinct to make another suffer to make us more successful, we see children starve, we see world wars fomented we see the shadow government, the ones behind the scenes of daily life controlling Hollywood, controlling the media and controlling what we eat and drink.
- 5.
6. Citizens from around the world are waking up more and more each day to our evil and corrupt Elite and governments who have been lying to us and misleading us for centuries.
- 7.
8. Here is our message to the monolithic conspiracy running the world as we know it, our message is clear... We will not let the banks win, we will be attacking the banks with one of the most massive attacks ever seen in the history of anonymous.
- 9.

- Un utilizzo sempre più intensivo di stresser e Booter
- Un numero maggiore di attacchi
- Attacchi multipli verso lo stesso target
- Attacchi multivettoriali
- Attacchi sempre più grandi
- Entro 3 anni e mezzo ci aspettiamo che un attacco DDoS di medie dimensioni possa generare 1,5 Tbps di traffico



10 Most Frequent Attack Vectors by Quarter





Grazie!