



Voxility Presentation

RONOG 2019

"DDoS Attacks: Global trends vs Romanian market"



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- DDoS Attacks - timeline and intro
- DDoS trends - global, EU and focus on Romania
- DDoS Players - global vs Romania
- Recent activity
- Anti-DDoS solutions available in Romania
- Behind the scenes with Romarg – A-Z process of detecting and mitigating a large volumetric attack

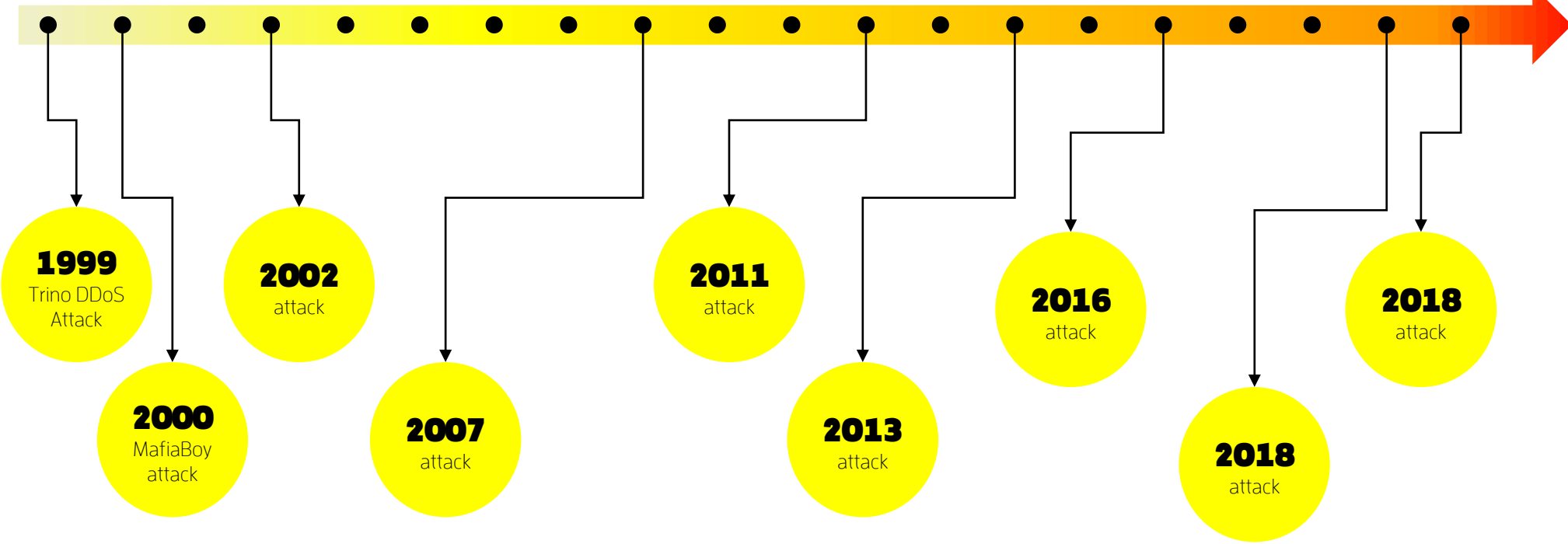


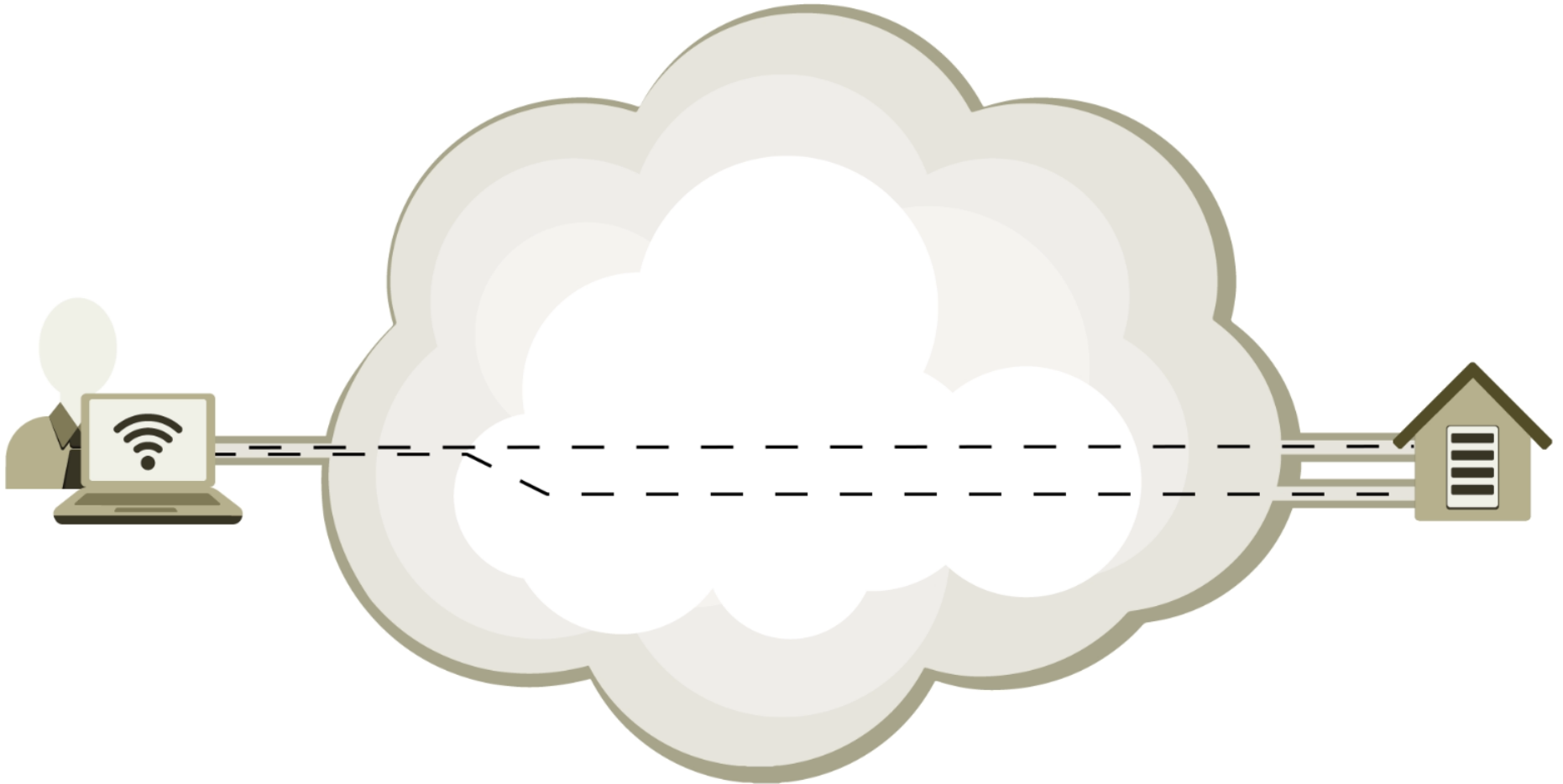
The early days

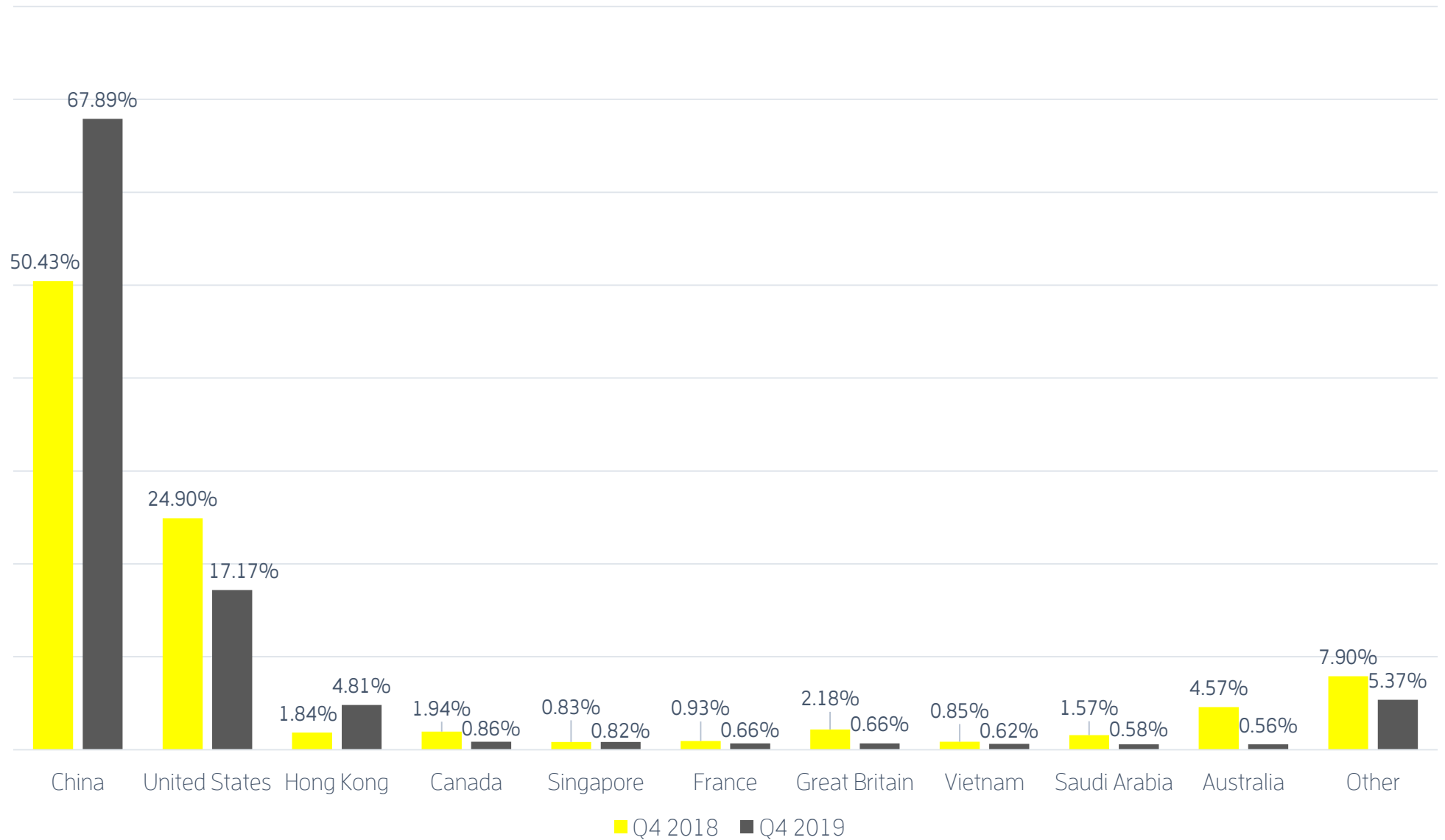
Recent History

1Tbps DDoS Era

1999 2002 3 4 5 6 2016 2018 2019

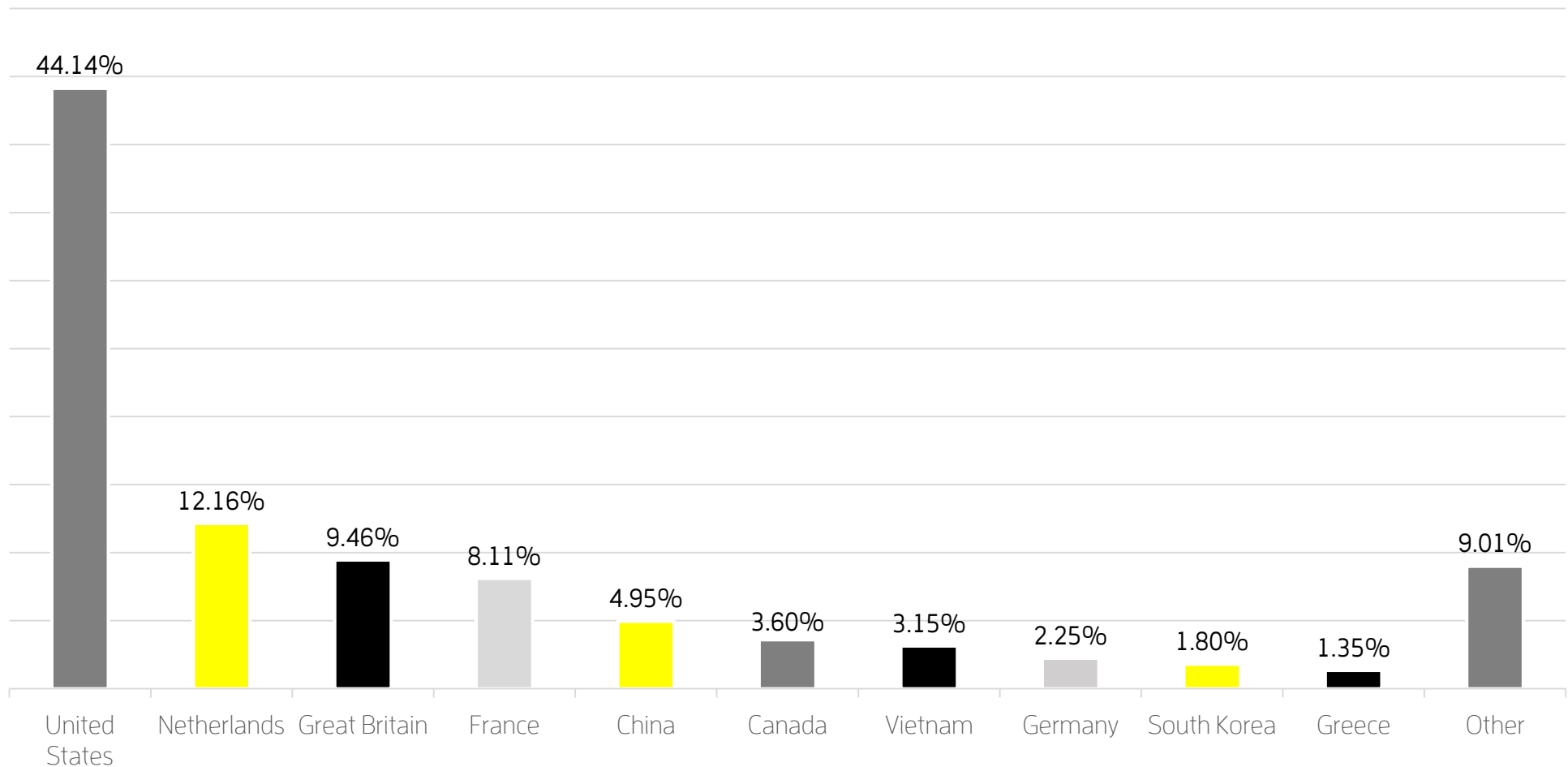








Romania has been a constant on this list for many years. This report from Kaspersky from Q2 2019 show the first time Romania was pushed out of the Top 10



Source: Kaspersky DDoS Report Q2 2019

Worldwide

Medium & large telcos

Ecommerce

(big streaming websites and recruiting sites)

Cloud services

Web Hosting

Cryptomining

Romania

Gaming

Web Hosting

Software development

Worldwide

33% increase

in the total number of DDoS attacks
in Q1 2018 copared to Q1 2019
worldwide

Romania

16% increase

in the total number of DDoS attacks
in Q1 2018 copared to Q1 2019
in Romania

Worldwide

49.58%
SYN Flood

26.35%
HTTP Flood

17.88%
UDP Flood

6.19%
TCP Flood

Romania

67.43%
SYN Flood

15.77%
HTTP Flood

13.21%
UDP Flood

3.59%
TCP Flood

Worldwide

00:17:43

**Average duration
of a DDoS Attack worldwide**

Romania

00:10:40

**Average duration
of a DDoS Attack in Romania**

Worldwide

Over the last 24 hours we have seen

21,397
incidents worldwide

Romania

Over the last 24 hours we have seen

1,487
incidents in Romania

Worldwide

The most targeted organization faced

1,581
DDoS attacks

Romania

The most targeted organization faced

592
DDoS attacks

Worldwide

US service provider hit by 'record-breaking' 1.7Tbps DDoS attack

Just five days after Github was whacked by massive 1.35Tbps attack



Romania

ING Bank, atacată cibernetic: „Datele clienților nu au fost afectate”

18.01.2019 08:49



**4 main solutions categories
available in Romania from global vendors**

Hardware (ACL)

Vendor specific
Capex intensive
Placed inline in client's network
On-premise
Requires trained personnel
Works very well for L7 attacks

Scrubbing Centers

BGP based
Redirects traffic to scrubbing centers
On-demand & always on
Works very well for volumetric attacks
Delivered as a service
Saves costs

Software (Flowspec)

Installed on premise and in neighboring networks
Full control over traffic
Requires very advanced networking skills
The network still incurs extra bandwidth costs with upstream providers
Works well with already known types of DDoS

Blackholling

Configures rules at core layer
Both legitimate and malicious traffic is dropped from the network
Still widely available for small and medium networks
Major traffic disruption

1. A visitor accesses an IP from ROMARG

