# DDoS attacks -Deadly threat or old news?

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#### Do I have to act?

#### Or can I just relax?

#### Stefan Mardak Enterprise Security Architect. Principal

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### Why should I care?

#### Cybersecurity First Principles

Reduce the probability of material impact due to a cyber event over the next three years

States precisely and clearly what we are going to accomplish

Gives you a measuring stick to evaluate your program

#### **CYBERSECURITY** FIRST PRINCIPLES

Presented by **Cyberwire** 

A Reboot of strategy & Tactics

#### **Rick Howard**

Peter Kilpe, Executive Editor Steve Winterfeld and Brandon Karpf, Editors Foreword by Mark McLaughlin



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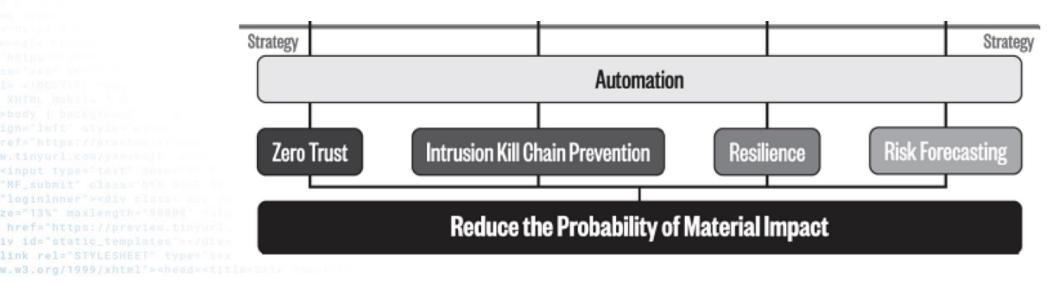
# **Does it affect my company?**

#### DDoS mitigation's place in the First Principle

- Improves resilience
- Automated no user action necessary
- Evidence of amortization is provided by Risk Forecasting

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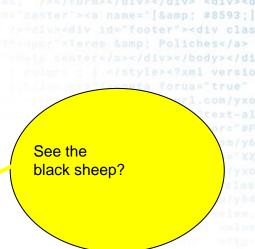
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#### **Distributed Denial of Service attack**



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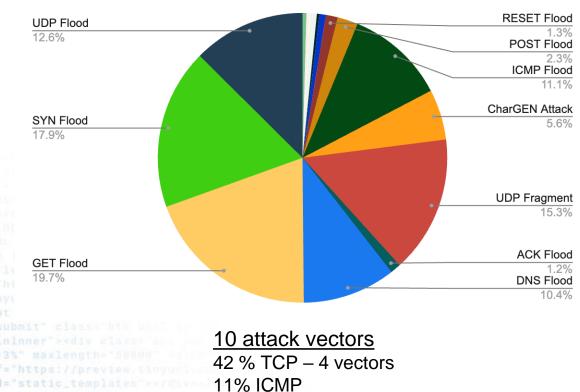
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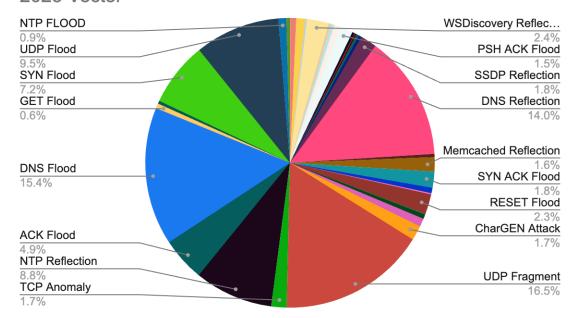
### **10 years of DDOS evolution**

2013 vectors



10% DNS

2023 Vector



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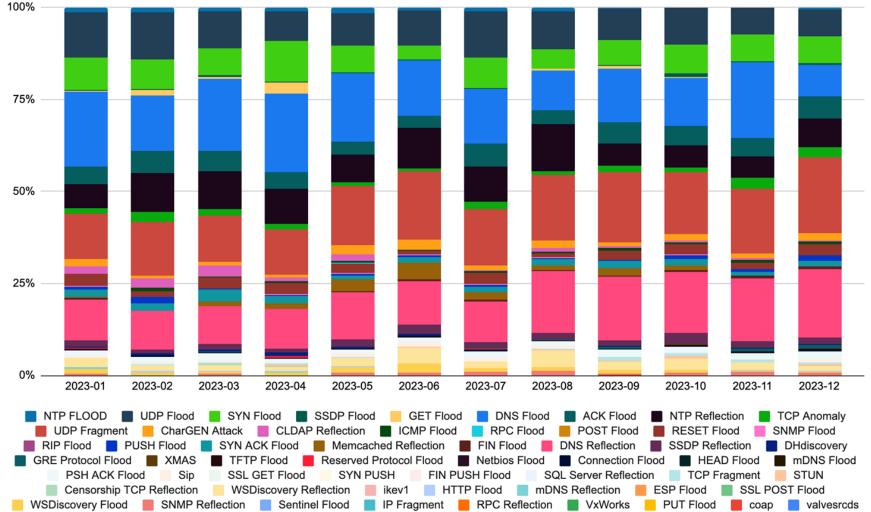
<u>17 attack vectors</u> 20 % TCP – 7 vectors No ICMP 29% DNS

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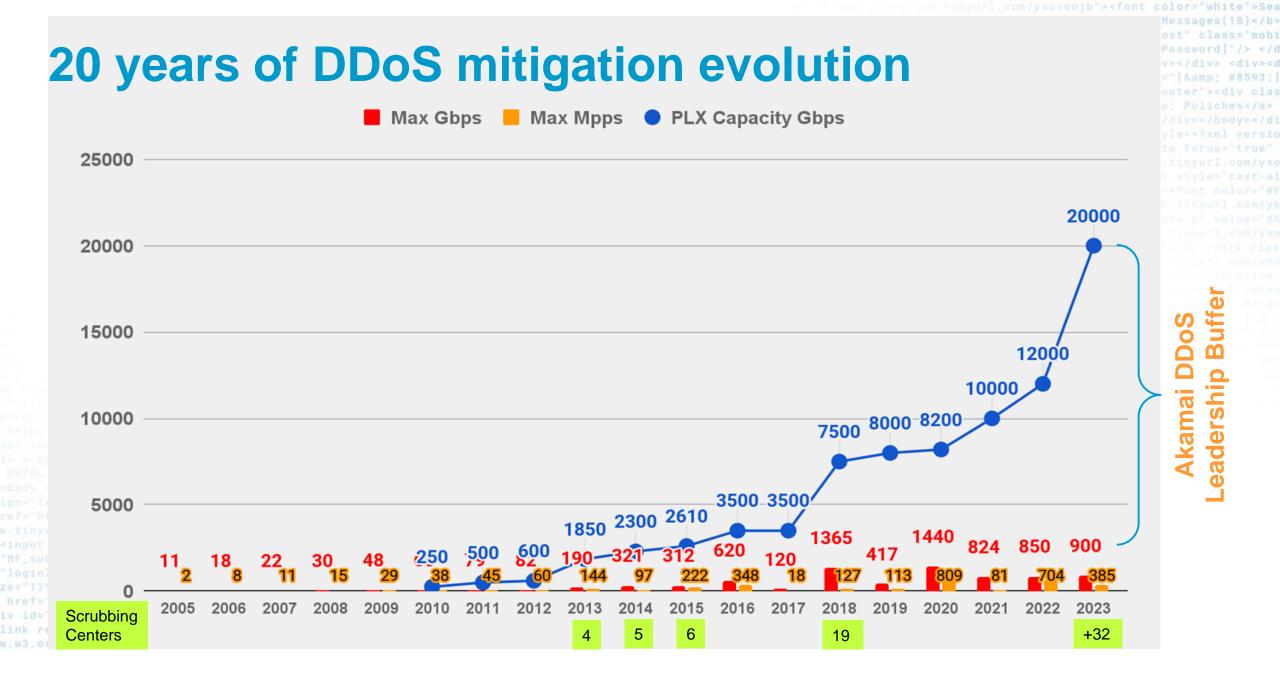
#### **Threat Vectors**

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63 attack vectors

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# We are too small, unknown,... to be a target



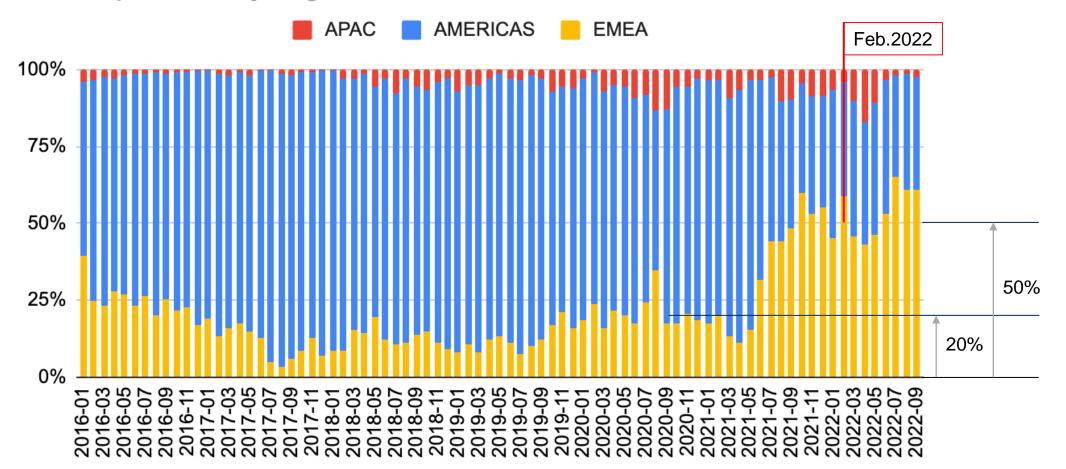
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## Attacks by Region of targeted customer

Attack percent by region



#### **Attack Trends by Industry**

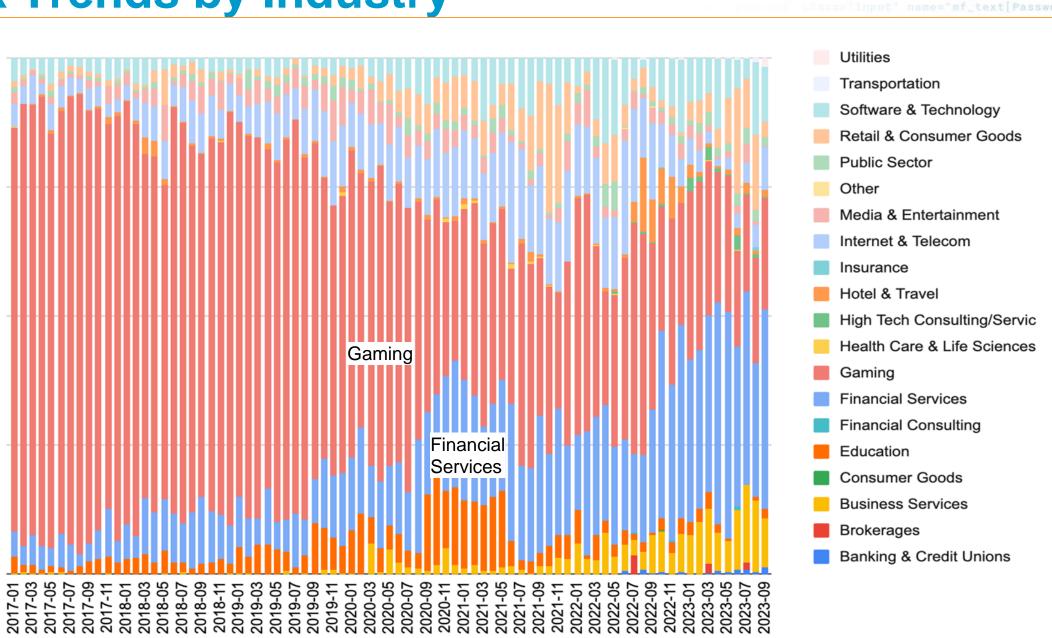
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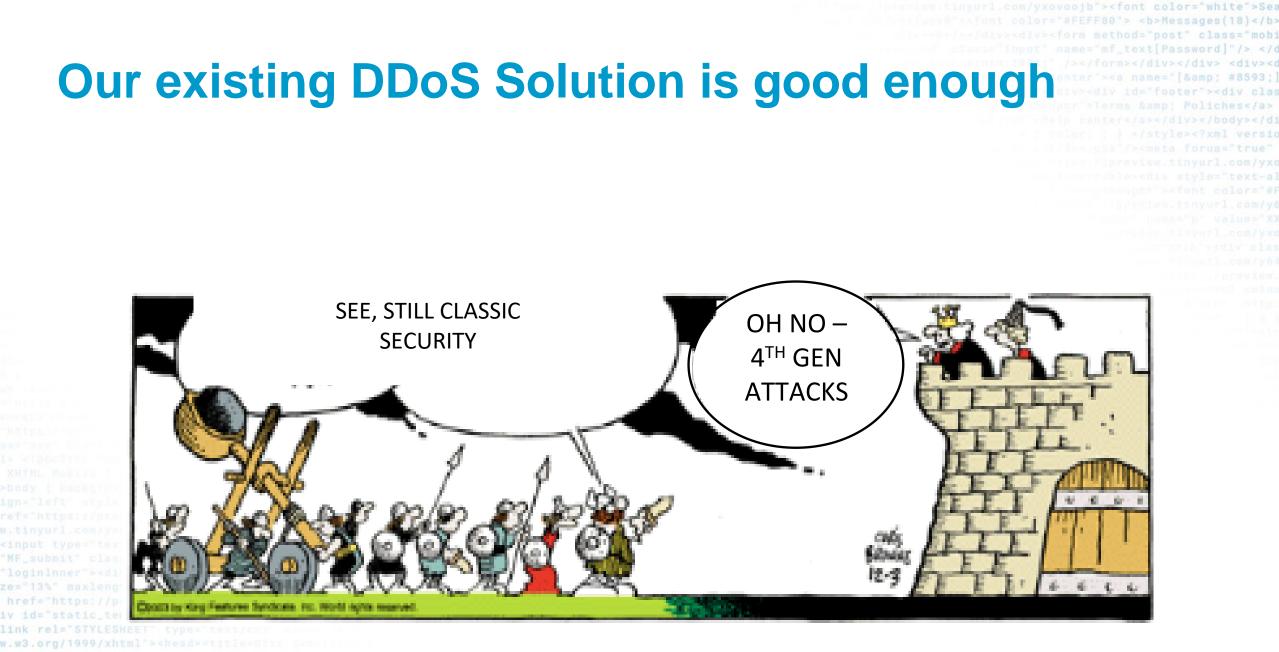
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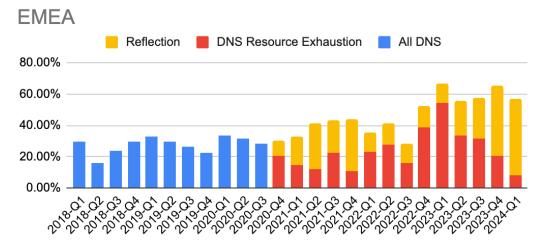


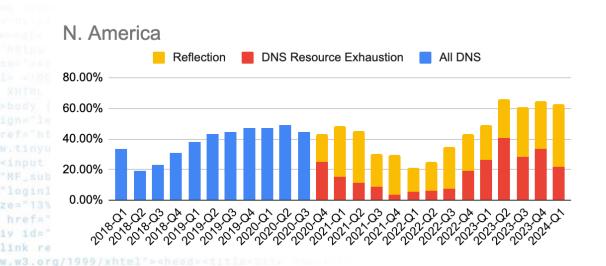
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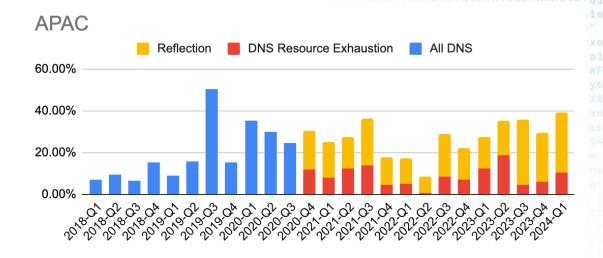
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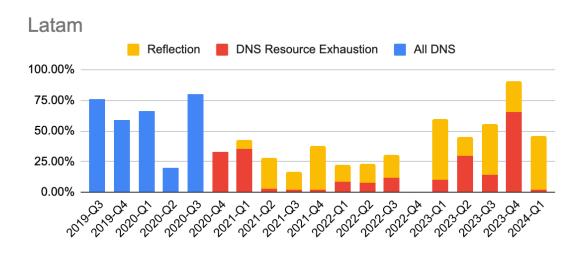
## DNS Attacks by Geo – today +60% DNS







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\*Breakout of reflection versus flood not available until mid 2020

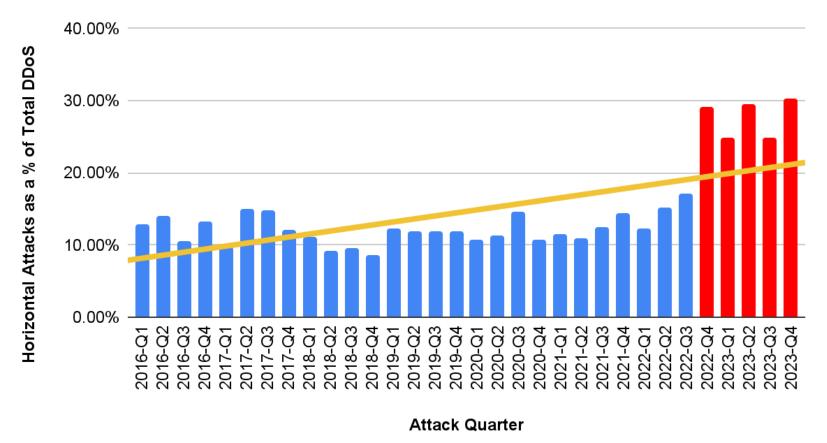
# Horizontal attack frequency

#### Horizontal DDoS Attacks Per Quarter

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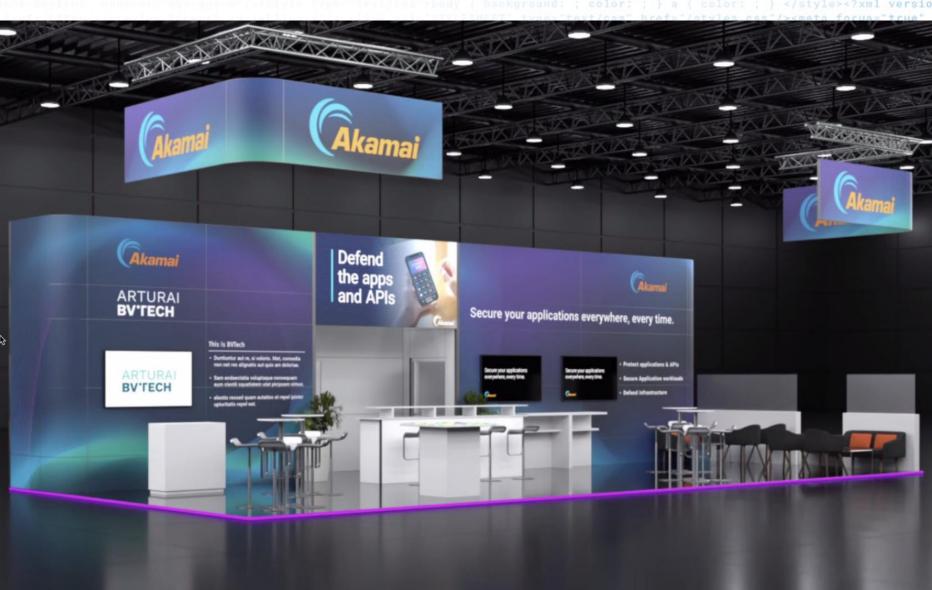


Horizontal attacks / Carpet bombing – Attacks against multiple IP addresses, not just the prominent ones

# Join us for a coffee

# Halle 9, Stand 317

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