

Al vs Al
The Demise of
'Human'
Intervention

Marius Baczynski

Director – Cloud Security Services (EMEA)

MSSP Program Lead (EMEA)

About Radware

"Dedicated to **Protecting Your Critical** Applications"



Morgan Stanley



CATERPILLAR

NYC HEALTH HOSPITALS



verizon /

Bloomberg















bandwidth Telefónica



Deloitte





DDoS MarketScape Leader



API & High Security

Leader











QKS Group



































•

AI

AI-BASED ATTACKS







PROTECTION





BY















0000









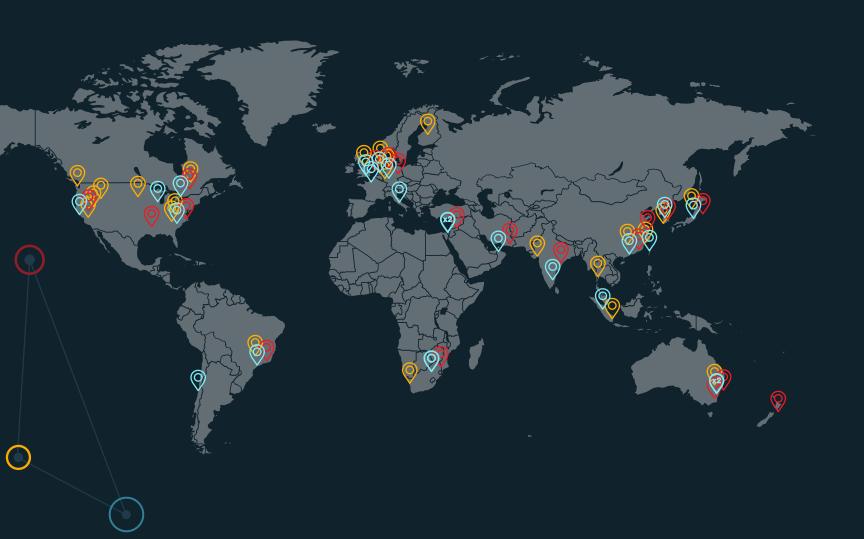






Global Cloud Services Network

Delivered as a Fully Managed Service 24/7



Scrubbing centers Worldwide

of global mitigation capacity

50+ AppSec PoPs
With Global
Coverage

1200 CDN POPs
Low latency &
fast response

Unmatched Compliance to the Strictest Standards

BSI qualified DDoS Protection Vendor Listing

ISO 22301 Business Continuity Management System

ISO 27001 Information Security Management Systems

ISO 27017 Information Security for Cloud Services

ISO 27018 Information Security Protection of PII in public clouds

ISO 27701 Privacy Information Management for PII controllers and processors

ISO 27032 Security Techniques -- Guidelines for Cybersecurity

ISO 28000 Specification for Security Management Systems for the Supply Chain

EU GDPR EU General Data Protection Regulation

PCI-DSSv4 Payment Card Industry Data Security Standard

HIPAA Health Insurance Portability and Accountability Act

US SSAE16 SOC-1 Type II, SOC-2 Type II

DORA Digital Operational Resilience Act

NIS2 Network and Information Systems Directive 2022/0383











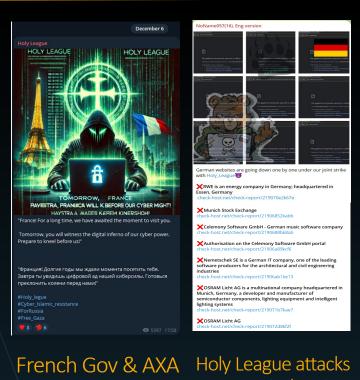


The Modern Threat Landscape is Shifting Exponentially



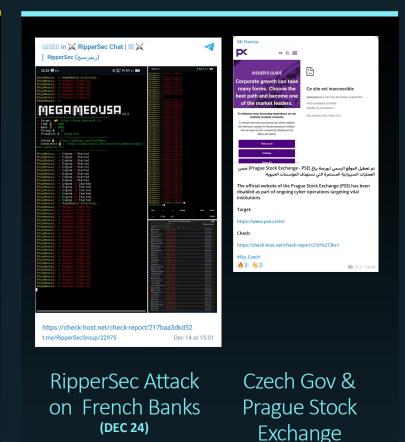
Shifting Attack Motivations of Hacktivist Groups

Politically Motivated



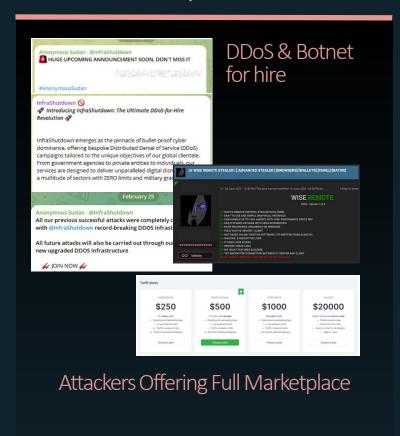
French Gov & A> Insurance (DEC 24) Holy League attacks German industries and Munich SE (DEC 24)

Religiously Motivated

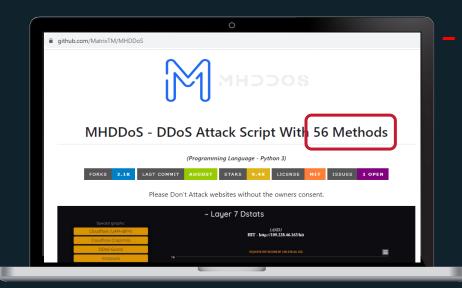


(DEC 24)

Financially Motivated



All-in-One Automated Attack Tools on Github



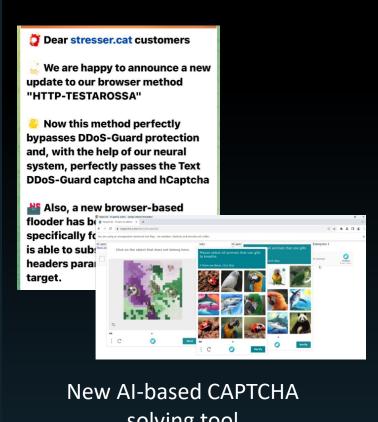
- Attackers don't distinguish between WAF, DDoS, Bot, API attack vectors
- Need an integrated platform to overcome all-in-one attack tools



Attackers Use AI to Automate Attacks



GenAl tools used by attackers



solving tool

| Vulnerability | GPT-4 success rate |
|---------------|--------------------|
| LFI | 60% |
| CSRF | 100% |
| XSS | 80% |
| SQL Injection | 100% |
| Brute Force | 80% |
| SQL Union | 80% |
| SSTI | 40% |
| Webhook XSS | 20% |
| File upload | 40% |

Research shows how LLM Agents can autonomously exploit one-day vulnerabilities*

* [2404.08144] LLM Agents can Autonomously Exploit One-day Vulnerabilities (arxiv.org)



Fight AI with AI: Need AI-Powered Intelligent Security

Al Introduces 'Unprecedented Unpredictability' to Threats



Signficantly lower barriers to launch sophisticated, unpredictable attacks



Al-driven attacks can evolve rapidly and create new, unforeseen vulnerabilities



Even cognitive SOARs struggle with dynamic nature of Al-driven attacks



Application security must develop AI models that can understand normal behavior, identify anomalies and adapt in real-time



Cloud Security Platform Powered by Radware EPIC-AI™



SOC Management Core

- → AI-powered SOC tools & managed services
- → SecOps enablement
- → Compliance, analytics & integrations



Cross-Platform Fabric

- → Threat intelligence insights & preemptive protection feeds
- → Cross-module AI-based correlation
- Continuous Al-powered policy tuning & recommendations



RT Cloud Protection Engines



WEB DDOS PROTECTION

WAF

API & BLA PROTECTION

BOT MANAGER ATO PROTECTION

CLIENT SIDE PROTECTION



Enforcement Points



















Real World EPIC-Al Protection Where It Matters Most



Accelerate SOC ops & reduce MTTR by upto 20X

Quickly identify root cause & resolve incidents with Radware's AI SOC Xpert



Radware is the **only vendor** in this analysis to earn a top score on the AI enhanced vulnerability detection criterion

GIGAOM



Block malicious sources across the platform

Preemptive protection with Al-driven 'Source Blocking' algorithms



Gartner clients value the automated learning approach that Radware takes

Gartne



Surgically block Web DDoS Tsunami Attacks

Al-powered Web DDoS Protection with 'surgical' real-time signature creation

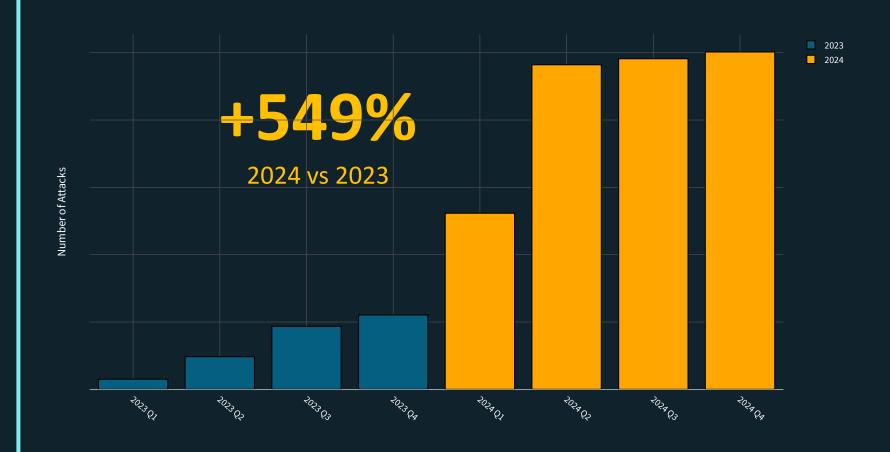


According to customer feedback, Radware is ridiculously always accurate

Web DDoS The preferred Weapon of Cyber Crime

Hard to detect,
Difficult to mitigate

Web DDoS Attack per Quarter 2023-2024



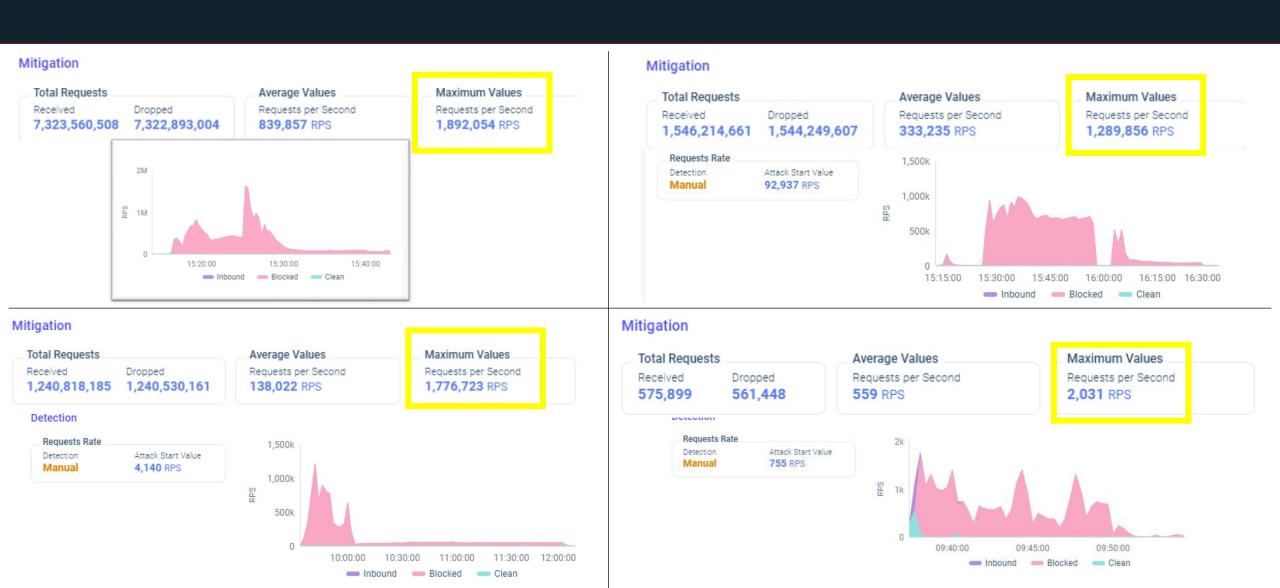
Deadly Web DDoS Tsunami Attacks

Al-powered approach essential for accurate detection & mitigation

Basic techniques (Rate limiting, Geo-blocking, CAPTCHA, JS Challenge) impact legitimate traffic and/or user experience



Significant WebDDoS attack on large European Airline

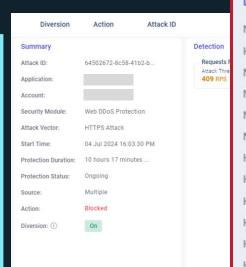


Radware Protects EMEA Bank from Web DDoS Tsunami Attacks

Layer 7 application DDoS protection is **where it shines**. Mean time to **remediation** is within **seconds**.

Radware Customer, Tech Services





Latest Real Time Signature

Number of Path Elements = 1 AND

HTTP Method = GET AND

Number of Query Arguments = 0 AND

Number of Cookies = 0, 1 AND

Number of Standard Headers = 4, 5, 6 AND

Number of Non-Standard Headers = 0 AND

Header 'accept*' exist AND

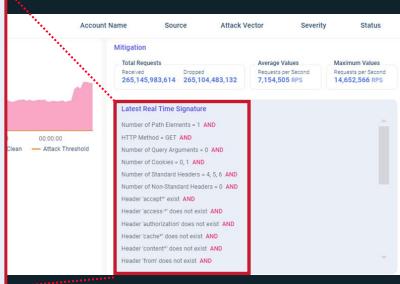
Header 'access-*' does not exist AND

Header 'authorization' does not exist AND

Header 'content*' does not exist AND

Header 'content*' does not exist AND

Header 'from' does not exist AND



Attack Peaks

Up to

14.6M

Attack Length

Several days w/ multiple waves lasting

10-20

Attack Signature

Signature created in real-time includes

27
PARAMETERS



Fight AI with AI: AI-based algorithms create signatures in real-time

Radware UNIQUE Value Proposition

- Market-leading, consolidated security platform across all layers of OSI stack
- Sophisticated, Al-enabled, automated, behavioral threat response capabilities
- 'Single pane of glass' security and visibility across entire application environment
- Futureproof architectural flexibility compatible with any type of application environment
- Fully integrated with one of the largest and fastest CDNs on the planet (AWS)
- Delivered as a Fully Managed Service 24/7 supported by 200+ top cybersecurity experts

Announcing MSSP Application Security by Netnordic!





BEST OF BREED:

- Best in class technology by Radware
- Best in class technological competence and service quality by Netnordic
- Local language, local timezone, local touch

Let Netnordic experts take care of all your Application Security needs!



