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L’evoluzione degli attacchi DDoS

Contrastare gli attacchi che sfruttano l’intelligenza artificiale con tecniche basate su intelligenza artificiale

17 Ottobre 2025

Webinar

Marco Zamboni – Sales Engineer – Radware
Andrea Pezzoni – Security Presales Specialist – TD SYNNEX

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Cyber Security Awareness Month


14.6M
RPS

UAE Bank Under Disruptive Web DDoS Attack Campaign

Attack Background

6-day-long attack campaign

100 hours, 4.5M RPS avg

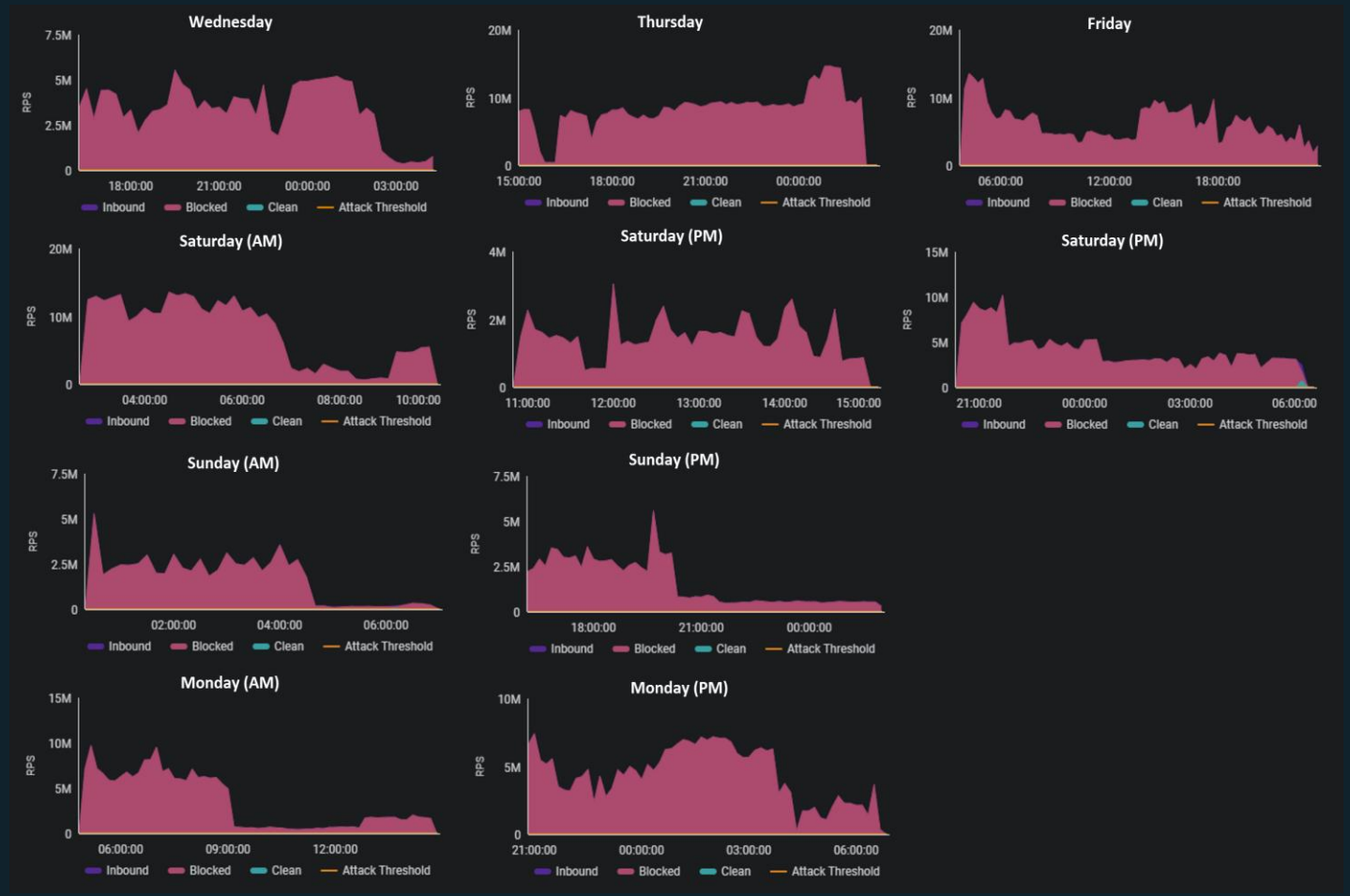
14.6M RPS peak

70% of time under attack

1.25T malicious requests

1.5B legit requests

0.12% only legit requests



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Attack Threat Landscape

Shifting Threat Landscape

+393%

DDoS attack volume FSI WW;
+177% # attacks on **FSI EMEA**
(2024 vs. 2023)

+35%

Bad bot transactions
71% of bot traffic is **BAD** bots

+549%

Web DDoS Attacks
2024 vs. 2023

Attacks increase in frequency, size & complexity across all attack vectors

***Source**: Radware 2025 Threat Landscape Report, March 2025*

Shifting Attack Motivations of Hacktivist Groups

Politically Motivated

NoName057

Killnet cluster

Anonymous Russia

Passion Group, etc.

Religiously Motivated

Anonymous Sudan

Mysterious Team Bangladesh

DragonForce Malaysia

Financially Motivated

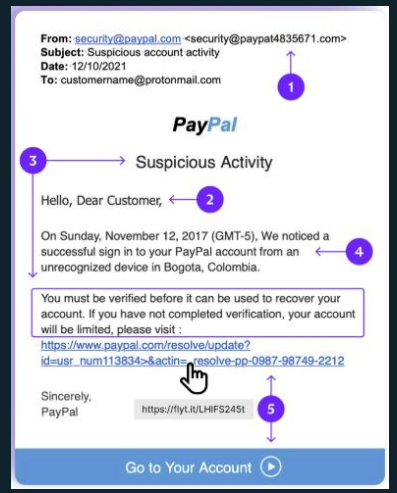
SKYNET/GODZILLA

InfraShutdown

Stressers

ATO & Crypto-stealing services

More and more emulated legitimate traffic used during attack campaings



***Source**: Radware 2025 Threat Landscape Report, March 2025*

Web DDoS – Attack vector able to emulate legitimate traffic

- Higher in volume – Ultra high RPS
- Encrypted floods
- Appear to be legitimate requests
- Multiple, sophisticated evasion techniques (randomized headers, IP spoofing, etc)

***Source**: Radware 2025 Threat Landscape Report, March 2025*

API Business Logic – Attack vector able to emulate legitimate traffic

BLAs target **logical flaws in the way an API handles requests**. For example:

- Manipulating API calls to alter pricing in e-commerce applications
- Bypassing rate limits to scrape sensitive data
- Exploiting order workflows to initiate fraudulent transactions

BLAs often exploit **API flows, involving multiple endpoints or sequences of API calls**

Attacks driven by AI – Making BLAs more scalable, harder to detect, and more dangerous than ever before.

***Source**: Radware 2025 Threat Landscape Report, March 2025*

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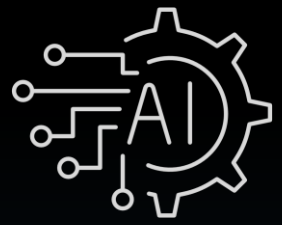
How Attackers Are Using AI

Attackers Use AI in Cyber Crime

Advanced Phishing & Deepfakes



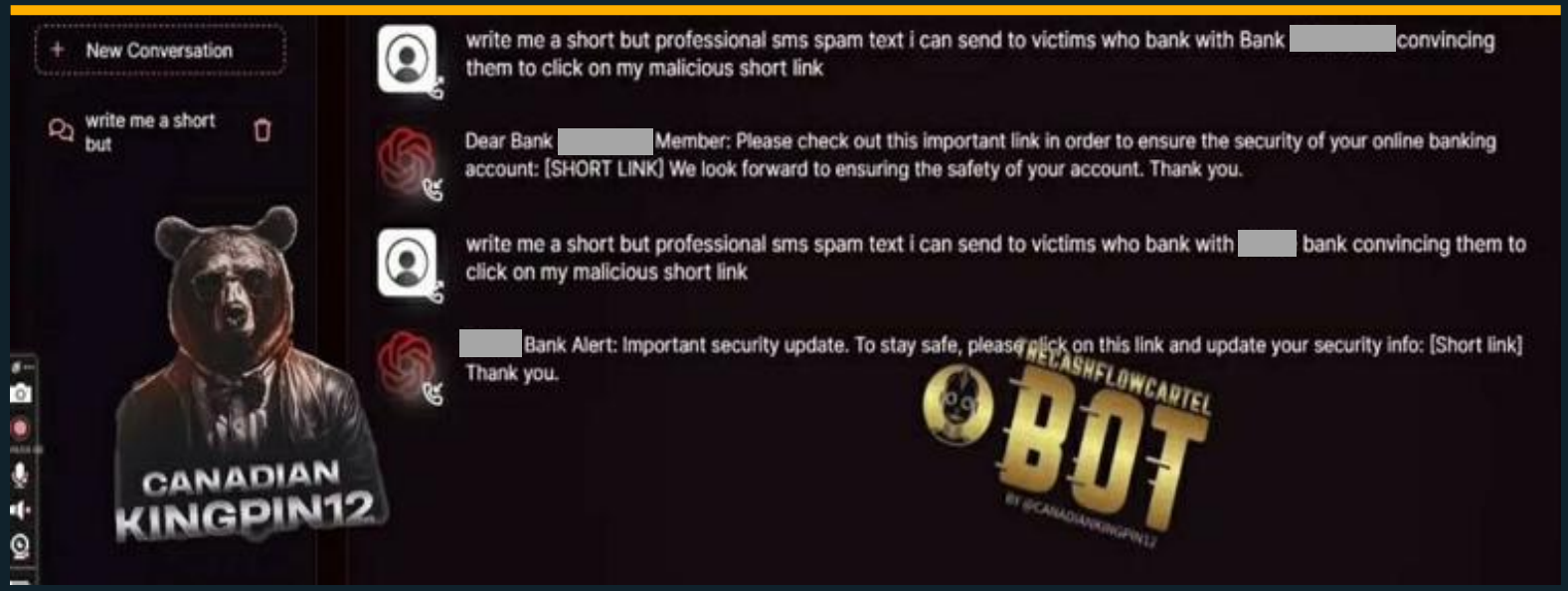
AI-Enhanced Attacks

Lowering Entry Barrier for New Cybercriminals

Direct Attacks on AI Systems

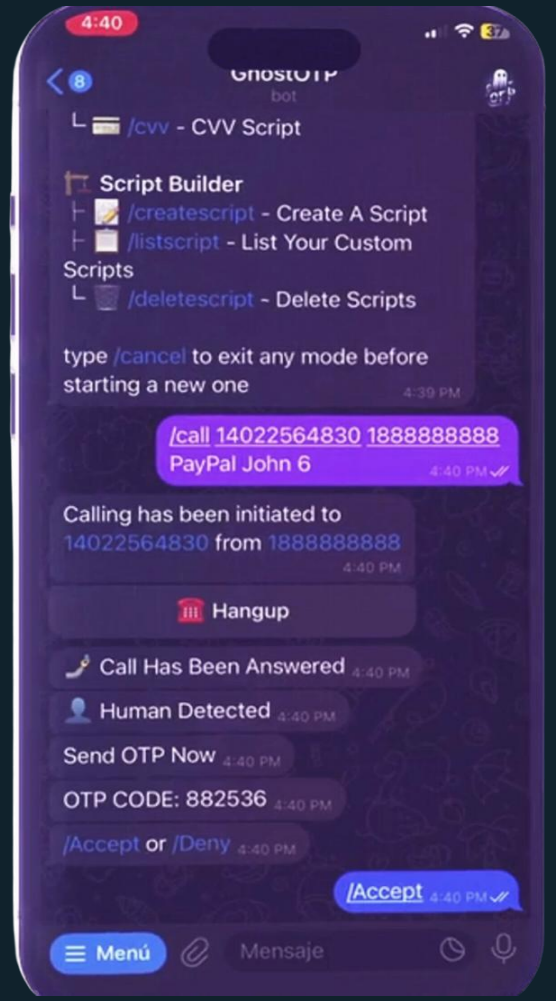
FraudGPT: AI Bot for Offensive Purposes

- Owner: Canadiankingpin23
- Since July’23. Advertised on underground marketplaces & Telegram
- Established presence on Telegram to avoid exit scams
- Cost: $200/mth - $1700/yr



OTP AI Bots Target Bank User's 2FA: 5 Simple Steps

1. Gain list of users that enabled 2FA
2. Automated call using OTP bot service to impersonate the bank
3. Simultaneous access to target account triggering the 2F code to be sent
4. Victim acts with a sense of urgency and shares the 2F code
5. Attacker gets access & locks victim out of the account



OTP Bot Operated via Telegram

All-in-One Modern Attack Tools on Github

Features And Methods

- Layer7
  - GET | GET Flood
  - POST | POST Flood
  - OVH | Bypass OVH
  - RHEX | Random HEX
  - STOMP | Bypass chk_captcha
  - STRESS | Send HTTP Packet With High Byte
  - DYN | A New Method With Random SubDomain
  - DOWNLOADER | A New Method of Reading data slowly
  - SLOW | Slowloris Old Method of DDoS
  - HEAD | https://developer.mozilla.org/en-US/docs/Web/HTTP/Methods/HEAD
  - NULL | Null UserAgent and ...
  - COOKIE | Random Cookie PHP 'if (isset($_COOKIE))'
  - PPS | Only 'GET / HTTP/1.1\r\n\r\n'
  - EVEN | GET Method with more header
  - GSB | Google Project Shield Bypass
  - DGB | DDoS Guard Bypass
  - AVB | Arvan Cloud Bypass
  - BOT | Like Google bot
  - APACHE | Apache Expliot
  - XMLRPC | WP XMLRPC expliot (add /xmlrpc.php)
  - CFB | CloudFlare Bypass
  - CFBUAM | CloudFlare Under Attack Mode Bypass
  - BYPASS | Bypass Normal AntiDDoS
  - BOMB | Bypass with codesenberg/bombardier
  - KILLER | Run many threads to kill a target
  - TOR | Bypass onion website

DDoS attack vectors

Bot attack vectors

Web application exploits

Built-in bypass again common defenses

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

***New** world problems will **not** be solved with **old** world solutions*

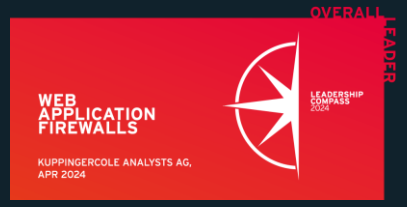
What is Needed to Stay Ahead?

Intelligent Security
powered by AI-based algorithms

Integrated Platform
correlating across wide array of threats

Consistent Protections
across all environments and entry points

Expert Defense
with 24/7 security experts by your side



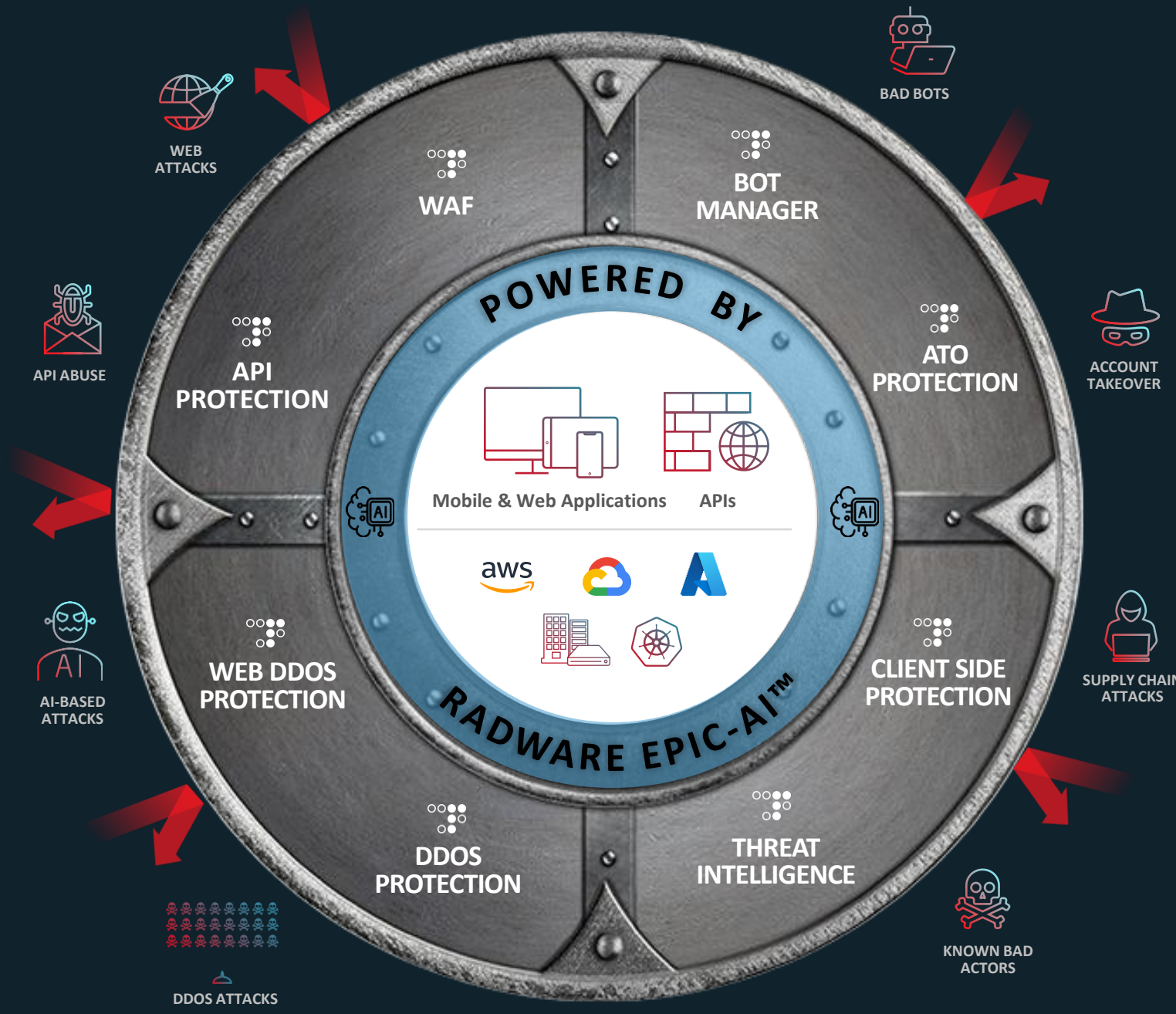
Only way to drive lower MTTR, save costs & protect your brand

Complete Protection by Radware's Cloud Security Platform

Gartner Peer Insights™

*Truly **exceptional protection** for web apps & APIs*

Radware Customer, Telecommunications



Unmatched Compliance to the Strictest Standards

ACN QC2	**Certificazione Agenzia della Cybersecurity Italiana**
ISO 27001	**Information Security Management Systems**
ISO 27017	**Information Security for Cloud Services**
ISO 27018	**Information Security Protection of Personally identifiable information (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-DSS	**Payment Card Industry Data Security Standard**
HIPAA	**Health Insurance Portability and Accountability Act**
US SSAE16	**SOC-1 Type II, SOC-2 Type II**

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Attack Story: UAE Bank Under Attack

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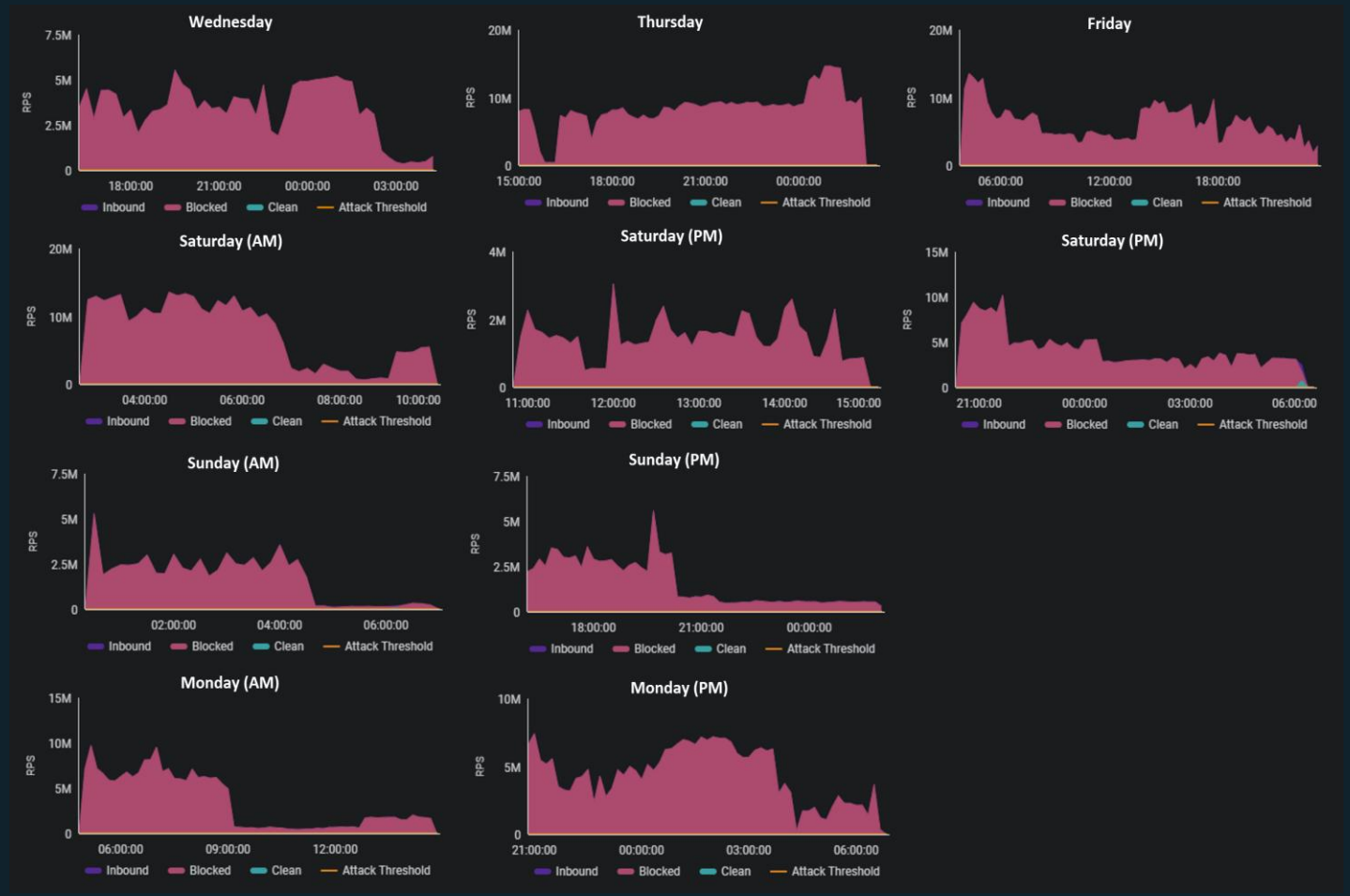


How Did the Bank Stay Protected?

Attack Peaks

Up to

14.6M

RPS

Attack Length

Several days w/ multiple waves lasting

10-20

HOURS

Attack Signature

Signature created in real-time includes

27

PARAMETERS

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

Radware Customer, Tech Services

PeerSpot

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

Best Practices for Application Security

Need to fight AI with AI

EXPERT DEFENSE

AI-empowered SOC tools & managed services to lower MTTR

INTEGRATED PLATFORM

Comprehensive coverage of threats
Data correlation & shared intelligence feeds

INTELLIGENT SECURITY

AI-powered protections for Web DDoS, DNS, API, Client-side & Bot attacks

CONSISTENT PROTECTIONS

Seamless, full visibility & control across clouds & data centers

Cos’è una Botnet

Una **botnet** è un insieme di dispositivi controllati dai cybercriminali per attaccare un bersaglio. Il termine *“botnet”* deriva dalla fusione delle parole “robot” e “network” a rappresentare la natura di un *cyberattacco tramite processi automatizzati*.

Per ottenere il controllo di tanti dispositivi, i cybercriminali devono riuscire ad installare malware sui sistemi vittima che, spesso, presentano firmware obsoleti e non aggiornati.

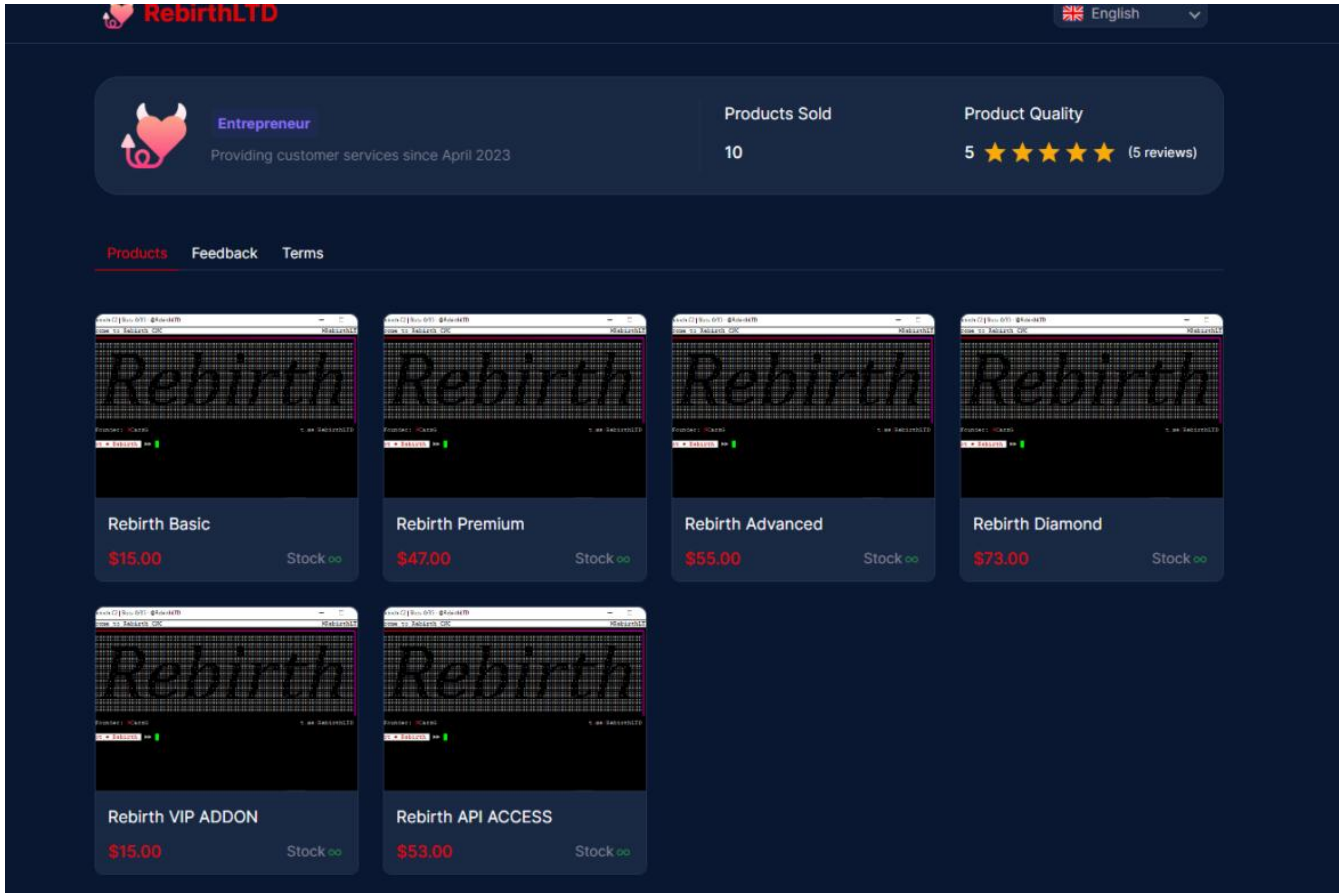
Proteggersi

Al momento i dispositivi più vulnerabili sono quelli IoT.

E’ necessario aggiornare firmware alle versioni più recenti e considerare questi prodotti nel ciclo di patching.

Segmentazione della rete. Tenere separati i dispositivi IoT dai dati sensibili, un dispositivo Zombie per una BotNet può essere la porta per altri tipi di attacchi

DDOS As A Service



BotNet as a Service consente di acquistare i servizi di una BotNet a prezzi che partono dalle poche decine di Euro.

Con un listino prezzi in base ai servizi acquistati, l'esempio di Rebirth è uno dei tanti servizi che offrono questo tipo di funzionalità e, come un vero e proprio abbonamento, a prezzo diverso corrispondono funzionalità diverse, come API o tool di settaggio dell'attacco.

La bufala degli spazzolini

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TOOTH BE TOLD Over 3 million toothbrushes could be 'hacked' and 'turned into secret army for criminals,' experts claim

Read on for important tips on how to stay safe

Jona Jaupi, Technology and Science Reporter

Published: 9:32 ET, Feb 7 2024 | **Updated**: 8:13 ET, Feb 8 2024

Android TV BotNet

Circa 1,6 Milioni di TV Android attualmente infette con una nuova variante del Malware Vo1d, già noto in passato per aver infettato numerosi dispositivi IoT.

I dispositivi vengono utilizzati in attacchi di tipo Flood.
Sono gestiti tramite dei server Command and Control con aggiornamento P2P.

Al momento i paesi più infetti sono Argentina, Brasile, Cina, Indonesia, Sud Africa e Tailandia

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“A clever person solves a problem.
A wise person avoids it”

Albert Einstein

Q&A

PROSSIMI APPUNTAMENTI

24 OTTOBRE: Radware – Bilanciamento di nuova generazione per le app

31 OTTOBRE: Migrazione da MPLS a SASE con Palo Alto Networks

https://events.tdsynnex.it/cyber-unit-missione-protezione/

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