

NoX

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Akamai Security Solutions



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SLED - Northeast Region

Boston based

State / Local Govt & Education (SLED)

New England, plus NY, NJ, PA

Akamai SLED focuses on

Higher Education

K12 Education

City / State Government

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Solutions Engineer (SE)

SLED - Northeast Region

Washington DC based

State / Local Govt & Education (SLED)

1:1 tether with Brian in Northeast Region

Today's discussion

30 minutes:

- Brief Akamai highlights in the security space
- Security concerns/activity across Higher Education
- High level snapshot of Akamai's security solutions portfolio

Interactive

Akamai ... Platforms for protection

Akamai's "Edge"

- 313,000 edge servers in 4,100 locations globally
- Managing 30% of all web traffic
- Delivering 2.2 Trillion DNS inquiries "daily"
- Ports 80/443 protection
- Stopping attacks within 1 network hop of a bad actor's origin point

Prolexic

- 19 global scrubbing centers, soon to be 21
- Addressing network layer packet and bandwidth attacks
- Capacity for 8 Tbps attacks currently

Attacking the Academic sector *

- Surge in DDoS attacks targeting education and academic sector
- Institutional online learning - cyber threat disruption correlations
- Malware, vulnerability exploits, DDoS, phishing increased Jul-Aug

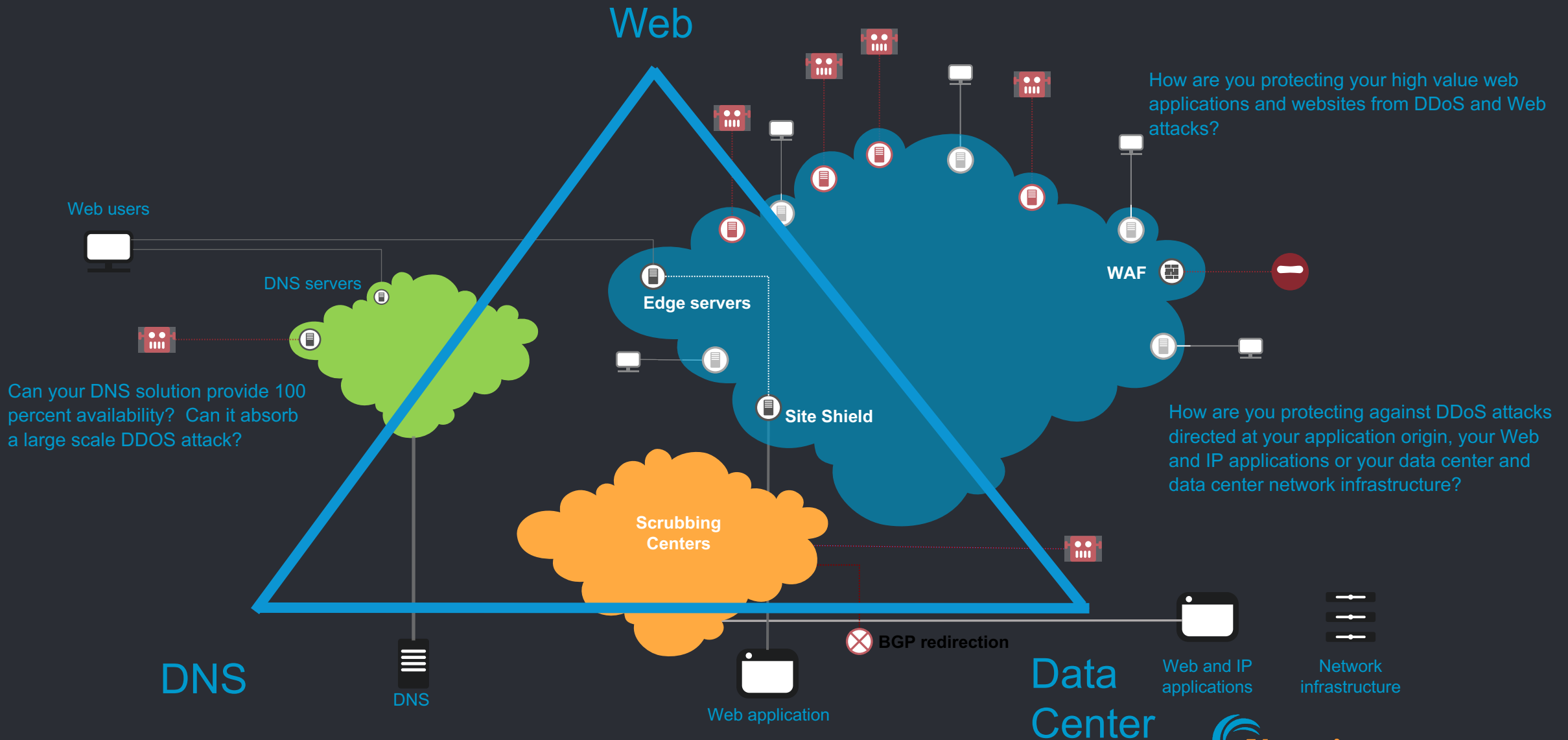
<https://www.bleepingcomputer.com/news/security/surge-in-ddos-attacks-targeting-education-and-academic-sector/>

- “Clickjacking” ... same deception game, enhanced

“malicious technique consisting of deceiving a web user into interacting (in most cases by clicking) with something different than what the user believes they are interacting with”

* Source: Check Point

Mitigating DDoS attacks



Akamai Core Security

Prolexic

Core of Akamai & NoX today

Now at 19 global scrub centers

Jun-2020 in the press:

Mitigated attacks of 1.44Tbs (bandwidth) and 809 Mpps (packets) in “0 seconds”

Network layer DDoS protection

24x7x365 SOC

Two flavors

On-Demand

Always-On

Edge DNS

Rebranded from Fast DNS

Akamai’s authoritative DNS

Moves DNS res to Akamai

DNSSEC support

Deployment

- Primary or Secondary

- NoX member pricing model

Web App Firewall

Two Akamai WAF flavors

Web Application Protector (WAP)

- Set it, forget it

Kona Site Defender (KSD)

- Highly granular

- Layered options ...

Client Reputation

Bot Manager

- Optional “Managed” support

Akamai EAA and ETP - access and control

Enterprise Application Access (EAA)

Forrester heralded zero-trust architecture

Simple definition: “proxy access in the cloud”

SSO integration

RDP establishment

Deployable as compliment to VPN use

Akamai’s own remoting use case:

- *onboarded 7,500 users, 100 apps in 10 days*

Enterprise Threat Protector (ETP)

Cloud based SWG

Leveraging Akamai Cloud Security Intelligence

DNS, URL, Payload Analysis

Two flavors

ETP Intelligence

ETP Advanced Threat ... adds:

- IDP and AD integration
- Group based AUP creation
- Proxy all web traffic
- Inline/offline analysis, sandboxing

In Summary

- Akamai Prolexic - still the leading DDoS mitigation platform
- Gartner and Forrester - herald Akamai again as a leading WAF provider
- Zero Trust based EAA compliments, enhances, or replaces legacy VPN
- ETP - an easily deployed and manageable cloud SWG
- Edge DNS - a cost-effective, reliable DNS offload solution
- Hidden concerns: IoT on campuses, mobility proxies to the Internet

New normal higher-ed environments have established heavier website, web app, and remote access utilization/reliance
= increased broader at-risk attack surface

Any Closing Questions ?

Thank You !

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