

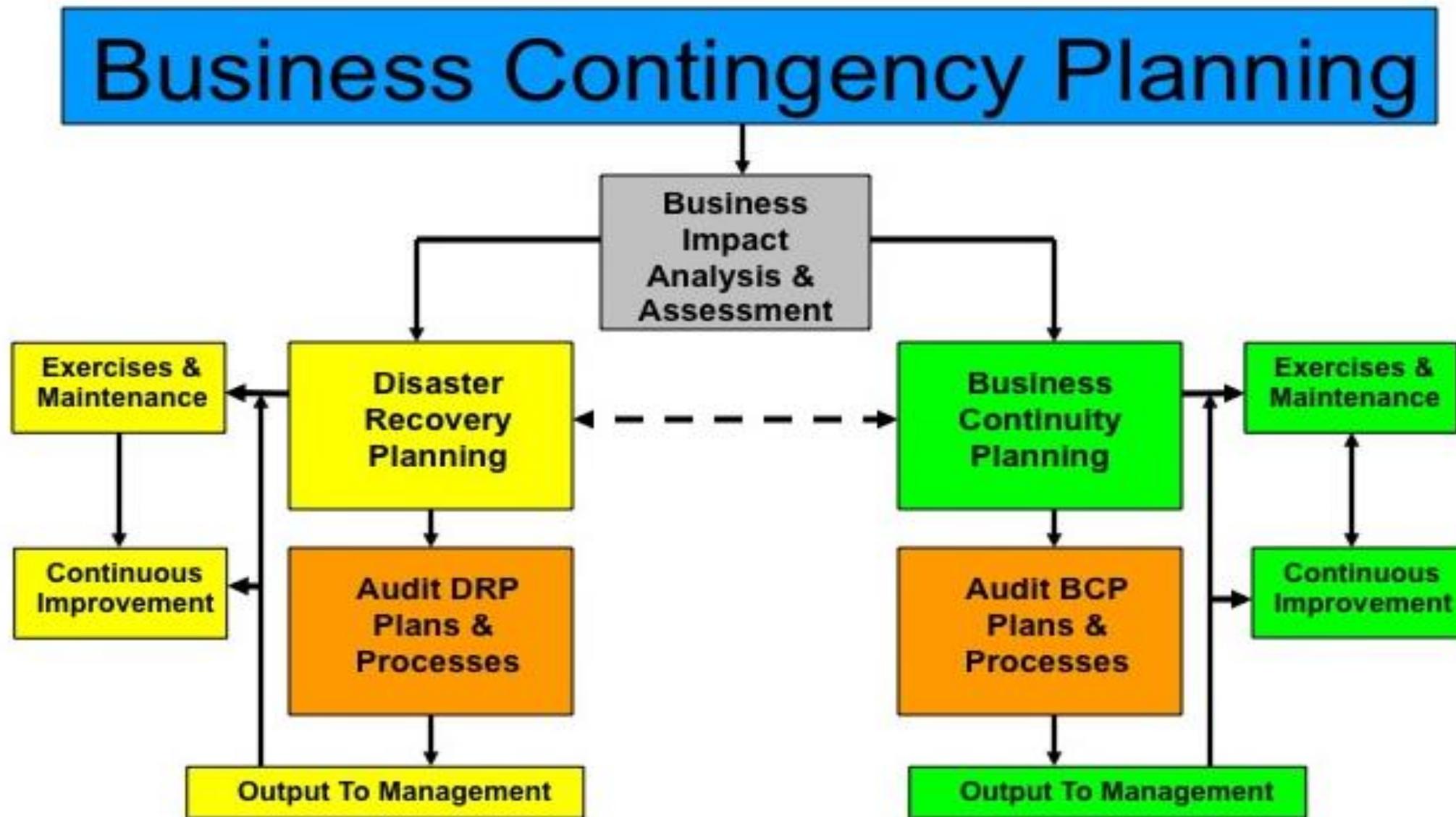


# Cloud Security In Your Contingency Plans

Jerry Lock

Security Sales Lead, Greater China

# Contingency Plans



- Disaster Recovery Plan (IT)
- Business Continuity Plan
- Business Impact Analysis
- Exercises & Maintenance

# Top Threats (2012 – 2015)



## TRACKING TOP THREATS TO ORGANISATIONS, 2012-2015

The following indicates the percentage of respondents reporting they are 'extremely concerned' about a particular threat. Multiple answers were allowed in the survey.

Threat	2012	2013	2014	2015
Cyber Attack	24%	25%	34%	43%
Unplanned IT & Telecoms Outage	30%	28%	31%	34%
Data Breach	28%	26%	29%	32%
Interruption to Utility Supply	18%	15%	18%	18%
Supply Chain Disruption	14%	10%	9%	13%
Security Incident	N/A	12%	14%	12%
Adverse Weather	19%	14%	18%	12%
Human Illness	7%	6%	10%	11%
Act of Terrorism	13%	10%	11%	11%
Fire	16%	11%	14%	10%
Health & Safety Incident	12%	9%	13%	10%
Transport Network Disruption	11%	6%	10%	10%
New Laws & Regulations	8%	8%	10%	9%
Availability of Talents/Key Skills	9%	7%	9%	9%
Social/Civil Unrest	7%	6%	8%	8%
Energy Cost/Availability	8%	5%	7%	8%
Product Quality Incident	6%	6%	5%	7%
Earthquake/Tsunami	9%	8%	10%	6%
Environmental Incident	9%	6%	10%	6%
Business Ethics Incident	8%	8%	7%	6%
Conflict/War	5%	5%	6%	5%
Industrial Dispute	7%	4%	4%	5%
Product Safety Incident	6%	4%	5%	4%

--Business Continuity Institute  
Horizon Scan Report 2015

# Comparison by Business Size



	SMEs	Large businesses
<b>Top three threats</b> <i>(Based on 'extremely concerned' responses)</i>	1. Cyber attack - 30% 2. Unplanned IT & telecom outages - 24% Data breach - 24% 3. Interruption to utility supply - 19%	1. Cyber attack - 47% 2. Unplanned IT & telecom outages - 37% 3. Data breach - 34%
<b>Top three trends</b>	1. Use of Internet for malicious attacks - 79% 2. Loss of key employee - 67% 3. Influence of social media - 58%	1. Use of Internet for malicious attacks - 82% 2. Influence of social media - 64% 3. Potential emergence of a global pandemic - 61%
<b>Conducting Trend Analysis</b>	59%	77%
<b>Use of ISO 22301</b>	50%	53%
<b>Level Of BC Investment</b>	Up - 20% Down - 11% Unchanged - 56%	Up - 24% Down - 12% Unchanged - 54%

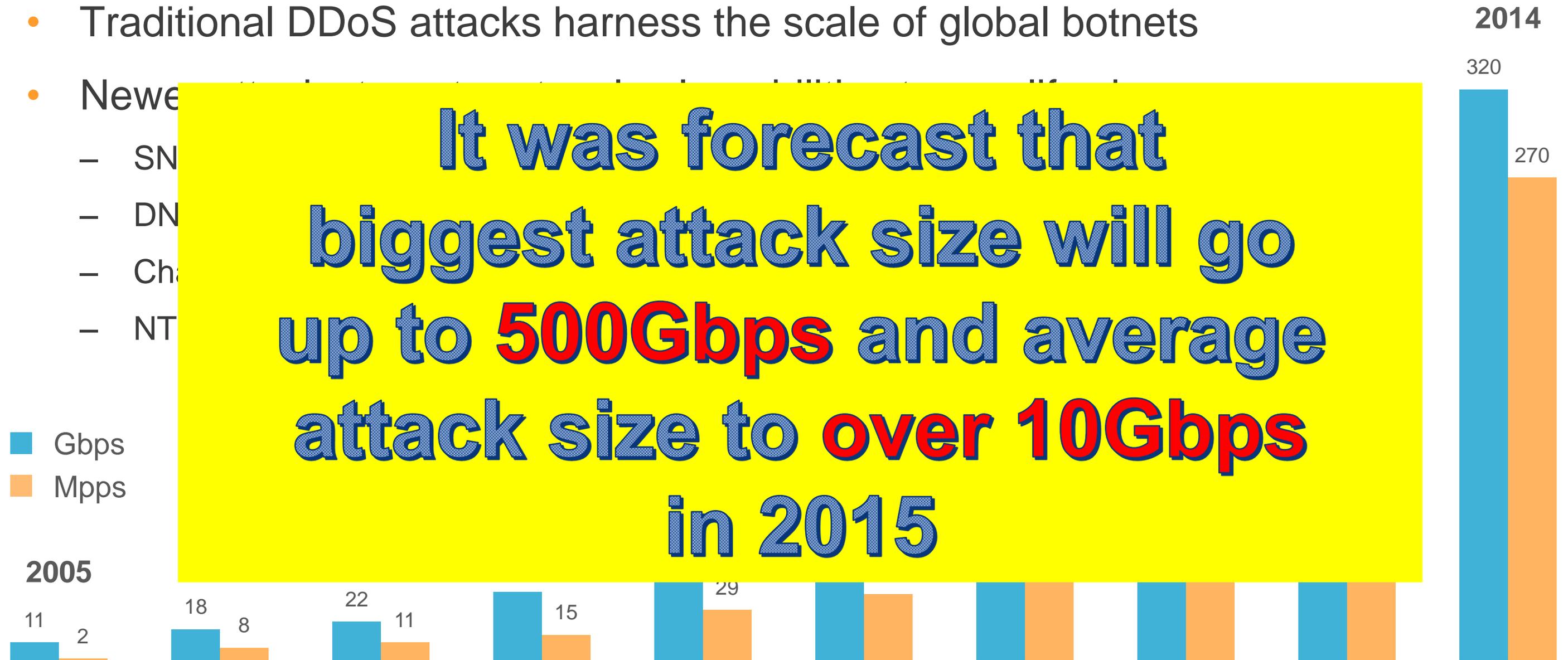
--Business Continuity Institute, Horizon Scan Report 2015

# Attacks Are Growing in Size



- Traditional DDoS attacks harness the scale of global botnets
- Newer attacks are more sophisticated
  - SYN
  - DNS
  - Ch
  - NT

It was forecast that biggest attack size will go up to **500Gbps** and average attack size to **over 10Gbps** in 2015



# Our digital walls are struggling



Can't scale, Can't evolve

What about those beyond the wall?

Source: World War Z movie

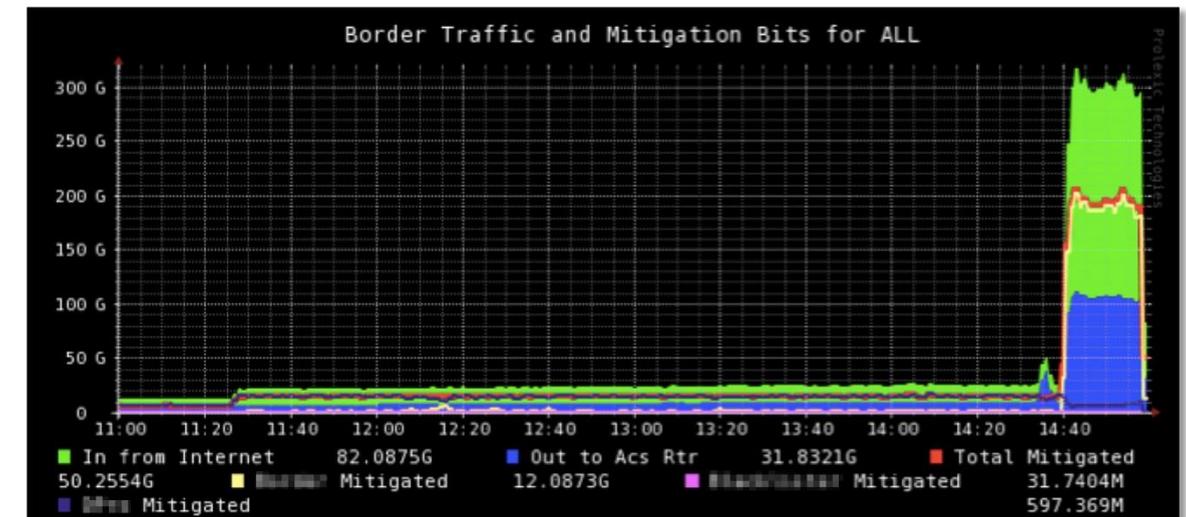
# Web Apps DDoS - 320 Gbps attack in Asia (Q3 2014)



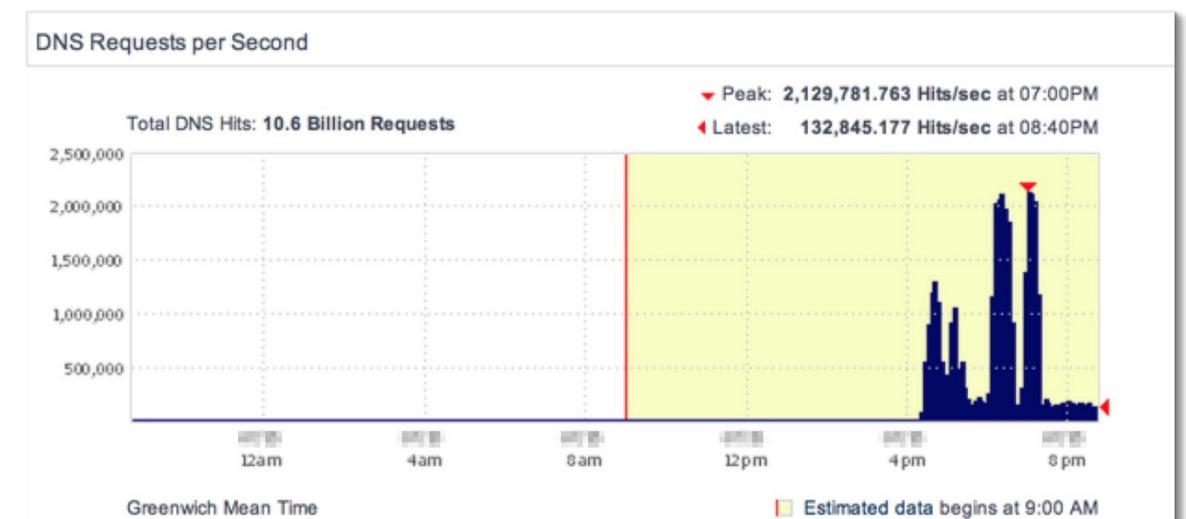
- Largest attack ever mitigated by Akamai against a single customer
- Targeted primary website, supporting network infrastructure, and DNS
- Multiple attack vectors:
  - SYN / UDP floods against an entire subnet
  - Volumetric attack against DNS
- Attack characteristics:
  - **320 Gbps and 71.5 Mpps** peak DDoS attack traffic
  - **2.1 million requests/s** peak DNS attack traffic

Point to ponder: 17 x 100Gbps attacks July to Sept to one single target

## DDoS Attack:



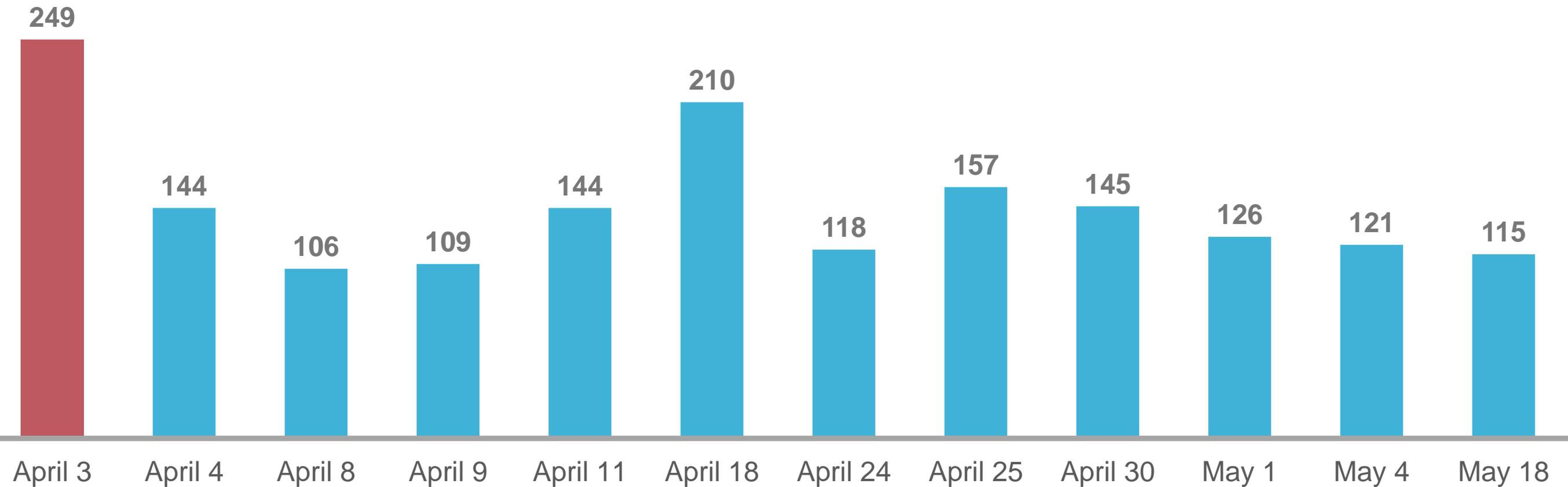
## DNS Attack:



# Attacks > 100 Gbps mitigated in Q2 2015



## • MEGA ATTACKS



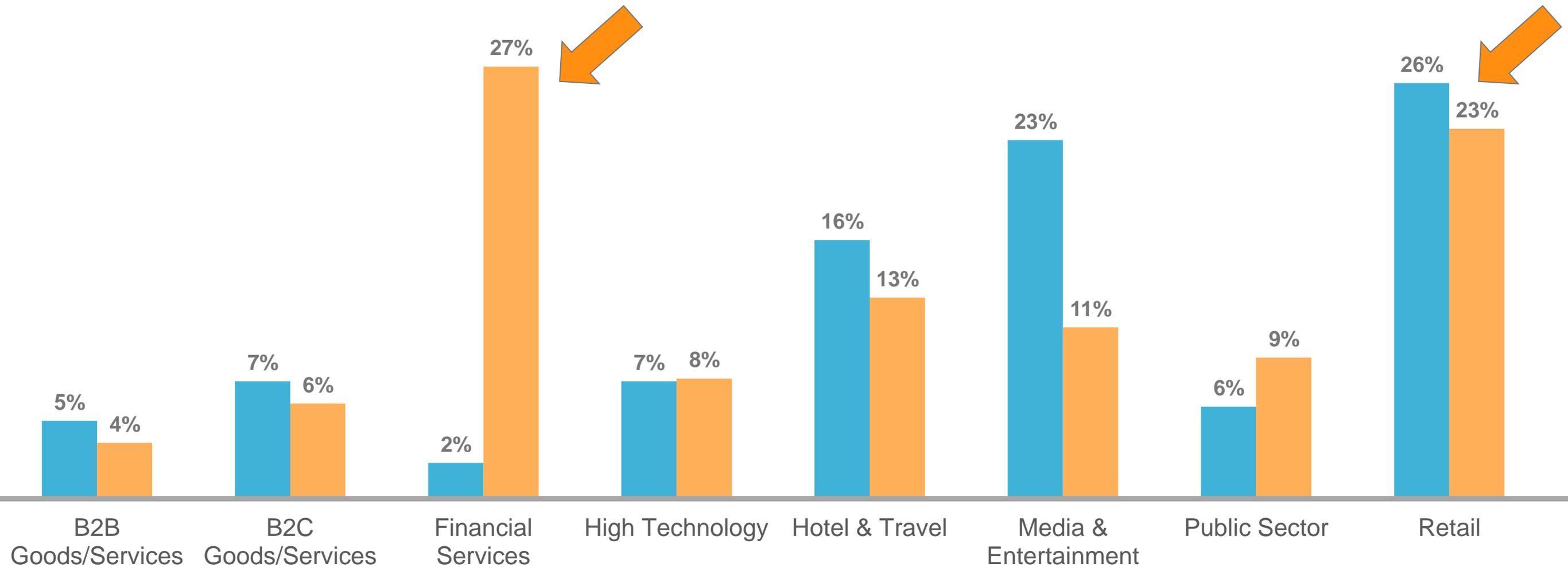
- Straining IT staff

- **AVERAGE DURATION**



- Web attack frequency

- **BY TARGET INDUSTRY**



■ Q1 2015 ■ Q2 2015

# Increasing and Devastating



## Ashley Madison Chief Steps Down After Data

By NICOLE PERLROTH | AUG. 28, 2015

# ANONYMOUS TARGETS THE U.S. BANKING SYSTEM WITH OPERATION 'BLACK OCTOBER'

ACTIVISM, ANONYMOUS NEWS, VIDEOS | SEPTEMBER 29, 2015 | BY [SAMBURAJ DAS](#)

The screenshot shows the TalkTalk website with a prominent message: "Website attack affecting our customers". The page includes navigation links for "TV, Broadband & Calls" and "News & TV Guide", and a "TalkTalk Help" section. A sidebar on the left shows a "DDOS A" article by Jonathan Keane.

## OPM notifies 3.7 million cyber attack victims about data protection services



By Meredith Somers | @msomersWFED  
October 28, 2015 6:00 pm

62 Shares



## Hackers strike at Vodafone stealing bank details from thousands of customers

HACKERS have stolen the personal and bank details of almost 2,000 Vodafone customers in a targeted cyber attack.

By HELEN BARNETT AND NICK GUTTERIDGE

PUBLISHED: 09:02, Sun, Nov 1, 2015 | UPDATED: 18:04, Thu, Nov 5, 2015

## UK startups and SMEs face up to threat from 'DD4BC' DDoS extortion group

Smaller firms face a long-term commercial threat from a new kind of attacker that can't be bought off



By John E Dunn | Sep 10, 2015

# Latest Attacks by DD4BC

RISK FACTOR – MEDIUM

## DD4BC: PLXsert warns of Bitcoin extortion attempts



By Bill Brenner December 2, 2014 8:00 AM  
0 Comments



A Bitcoin extortion campaign is underway, launched by a group of bad actors calling themselves DD4BC. The group repeatedly tried to blackmail Bitcoin exchanges and gaming sites -- threatening victims with DDoS attacks in order to extort bitcoins. Akamai's Prolexic Security Engineering and Response Team (PLXsert) reports the following:

**Summary:**  
The campaign typically consists of an email informing the victim that a low-level DDoS attack is underway against the victim's website. The email explains that the DDoS activity can be observed in server logs and that it is currently at a low level in order not to interrupt the victim's operations. Following this explanation, DD4BC demands a ransom paid in bitcoins in return for protecting the site from a larger DDoS attack capable of taking down the website.

The targets seem to have been chosen for their reluctance to involve law enforcement. To date, the targets have

### CATEGORIES

Select Category

### ENTRY ARCHIVES

Select Month

Subscribe to this blog's feed

### SECURITY BULLETIN: DD4BC OPERATION PROFILE [UPDATE]

**1.0 / OVERVIEW /** DD4BC, the malicious group responsible for [several Bitcoin extortion campaigns last year](#), is expanding its extortion and DDoS campaigns against a wider array of business sectors. By late April, at least two Akamai customers had fallen into the crosshairs. Today, the number of Akamai customers under attack continues to grow.

Over the past week, several customers have received ransom emails from this band of chaotic actors. DD4BC continues to inform victims that they will launch a DDoS attack of 400-500 Gbps against them. To date, however, DD4BC attacks mitigated by Akamai haven't measured more than 7 Gbps.

Based on the latest attacks launched and the IPs correlated, we were able to identify over 1400 IPs most likely coming from booter / stresser sites. Past tactics and targets of DD4BC were outlined in an [April 24, 2015 advisory](#). What follows is an update on the group's expanding range of targets and techniques.

**2.0 / LATEST ATTACK TARGETS /** To date, DD4BC has targeted 12 Akamai customers, and researchers have noticed that the group continues to expand the business sectors it targets. So far, the following industry verticals have been attacked:

## Hong Kong Banks Hit By Bitcoin Ransom Demands

Stan Higgins | Published on May 15, 2015 at 18:10 BST

### NEWS



Two of the largest Hong Kong banks were targeted with distributed denial of service (DDoS) attacks earlier this week by

Regional newspaper [The Standard](#) reported that the Bank of China (Hong Kong) and the Bank of East Asia were hit by an attack that took place on 9th May, telling CoinDesk:

## 港两银行网站遭黑客攻击 被勒索支付比特币

易锐民 2015年05月13日



易锐民 香港特派员

yikyms@gmail.com

中银香港及东亚银行的网站，上周六分别被黑客以“分布式阻断服务攻击”（DDoS），造成网络拥堵。

香港警方透露，银行其后收到电邮，要求支付比特币（Bitcoin），否则再发动攻击，瘫痪网站。

中银香港表示，攻击者透过多种渠道造成该行网络大挤塞，但事件并未影响客户资料及账户；东亚则称，该行互联网流量曾经异常激增，令网上银行服务缓慢，但事件并未对客户资料及账户造成影响。

# Change of Attack Objectives

- Retaliation
- Competition
- “Justice”
- Firepower Test
- Reputation
- Nation-to-Nation
- Public Movement



- Extortion
- DDoS-for-hire
- Ransom



# Akamai Security Bulletin on DD4BC



## Latest Update:

To date, DD4BC has targeted **114** Akamai customers. Industry verticals have been attacked incl.:

- Payment Processing
- Banking & Credit Unions
- Gambling
- Oil & gas
- E-Commerce
- Betting Agencies
- High Tech Consulting/Services

## Attack Types:

SYN Flood, UDP Fragment Flood, CharGEN Flood, GET Flood, NTP reflection flood, CharGEN reflection flood, SSDP reflection flood. **Campaign has peak attack traffic over 15Gbps**

## Conclusion:

- Expect the group to continue expanding its targeting to other verticals susceptible of financial loss due to downtime.
- Similar to an “express kidnapping” – **small ransoms**
- Likely already received payments from the threats made to some of these victims
- Activity will increase as **copycats** enter the game
- Previously targeted victims likely only have the choice of either paying malicious actors or seeking DDoS protection services

# New kid on the street



DDoS attacks across the financial sector

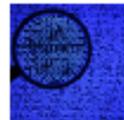
No outages have been reported

The largest attack peaked at 117 Gbps

Not announce target lists in advance



## XOR DDoS Threat Advisory



By Akamai SIRT Alerts September 29, 2015 6:00 AM

[0 Comments](#)



By Bill Brenner, Akamai SIRT Senior Tech Writer

Akamai's Security Intelligence Response Team ([SIRT](#)) is tracking XOR DDoS, a Trojan malware attackers are using to hijack Linux machines to include within a botnet for distributed denial of service (DDoS) campaigns. To date, the bandwidth of DDoS attacks coming from the XOR DDoS botnet has ranged from a few gigabits per second (Gbps) to 150+ Gbps. The gaming sector is the primary target, followed by educational institutions. Akamai SIRT released a [threat advisory](#) this morning authored by Security Response Engineer Tsvetelin "Vincent" Chorarov.

The botnet is attacking up to 20 targets per day, 90% of which are in Asia. Akamai mitigated two DDoS attacks orchestrated by the XOR DDoS botnet on the weekend of Aug. 22. One of the attacks measured nearly 50 Gbps, and the other was almost 100 Gbps.

XOR DDoS is an example of attackers building botnets from Linux systems instead of Windows-based machines.

Other recent examples of Linux-based malware include the [Spike DDoS toolkit](#) (which also targeted Windows machines) and [lptabLes and lptabLex malware](#). There are an increasing number of Linux vulnerabilities for malicious actors to target, such as the [heap-based buffer overflow vulnerability](#) found earlier this year in the GNU C library. However, XOR DDoS itself does not exploit a specific vulnerability.

XOR DDoS has captured the attention of technology news outlets, including SC Magazine, which [describes attacks](#) that alter installations based on the victim's Linux environment. A rootkit is also deployed to cloak the main attack. [The Avast blog](#) has also focused on XOR DDoS attacks.

# Considerations for DDoS Protection

Our current power stands at 2Tbps average with a total of 30Tbps network!  
VPNs are blocked through the payment system, please take them off for the next step!

Attacks becoming easier and cheaper for attackers to launch

Dashboard  
Tickets

Addons

4 Total Boots  
0 Your Total Boots  
0 Boots Running

Total Power Available (30000 gbps):  
100%

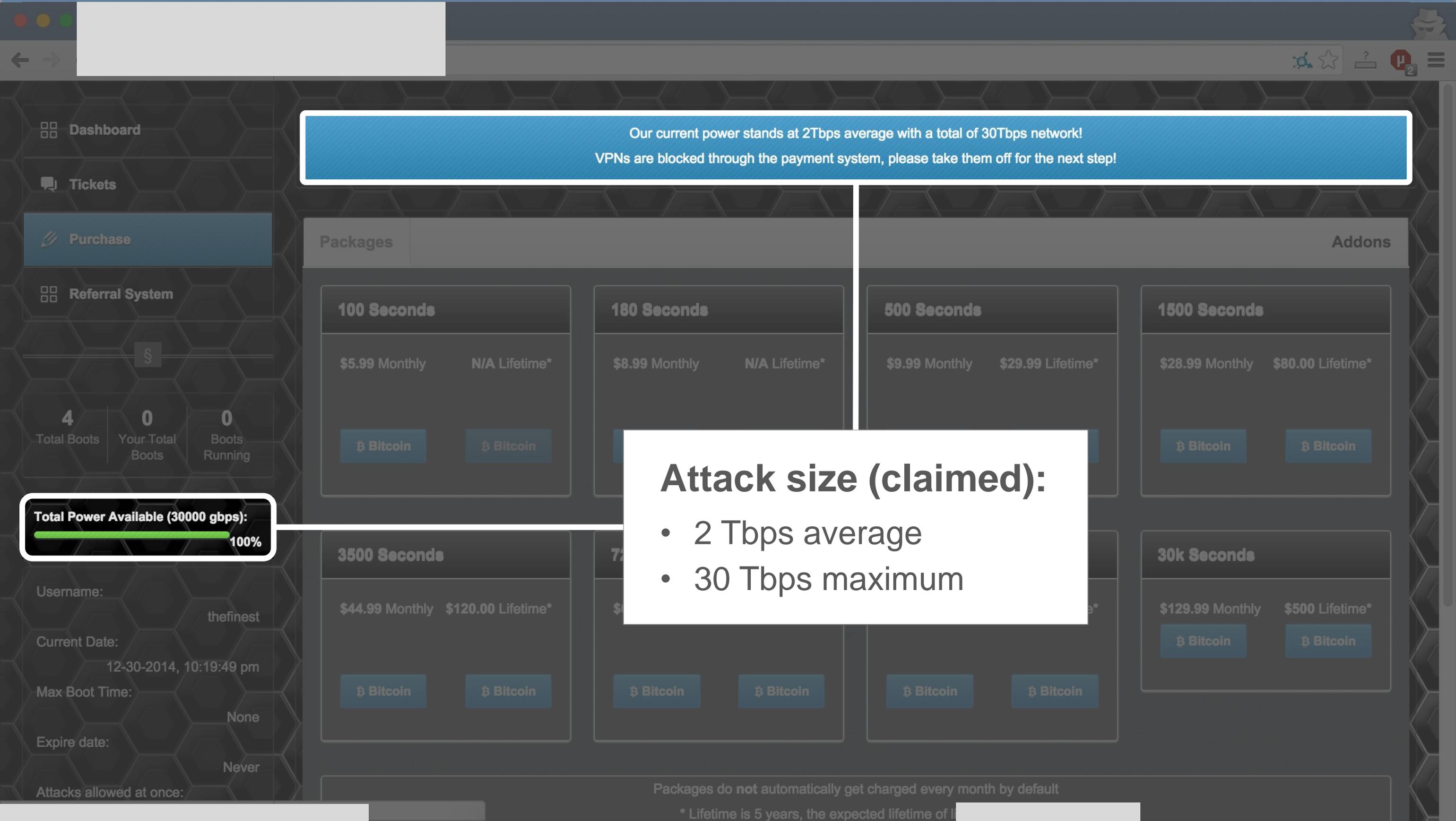
Username: thefinest  
Current Date: 12-30-2014, 10:19:49 pm  
Max Boot Time: None  
Expire date: Never

Attacks allowed at once:

100 Seconds	100 Seconds	300 Seconds	1500 Seconds
\$5.99 Monthly N/A Lifetime*	\$8.99 Monthly N/A Lifetime*	\$9.99 Monthly \$29.99 Lifetime*	\$28.99 Monthly \$80.00 Lifetime*
Bitcoin	Bitcoin	Bitcoin	Bitcoin
3500 Seconds	7200 Seconds	10800 Seconds	30k Seconds
\$44.99 Monthly \$120.00 Lifetime*	\$69.99 Monthly \$280 Lifetime*	\$89.99 Monthly \$350.00 Lifetime*	\$129.99 Monthly \$500 Lifetime*
Bitcoin	Bitcoin	Bitcoin	Bitcoin

Packages do not automatically get charged every month by default

\* Lifetime is 5 years, the expected lifetime of lizardstresser



Our current power stands at 2Tbps average with a total of 30Tbps network!  
VPNs are blocked through the payment system, please take them off for the next step!

**Attack size (claimed):**

- 2 Tbps average
- 30 Tbps maximum

**Total Power Available (30000 gbps):**  
  
100%

Packages Addons

**100 Seconds**

\$5.99 Monthly    N/A Lifetime\*

Bitcoin    Bitcoin

**180 Seconds**

\$8.99 Monthly    N/A Lifetime\*

Bitcoin    Bitcoin

**500 Seconds**

\$9.99 Monthly    \$29.99 Lifetime\*

Bitcoin    Bitcoin

**1500 Seconds**

\$28.99 Monthly    \$80.00 Lifetime\*

Bitcoin    Bitcoin

**3500 Seconds**

\$44.99 Monthly    \$120.00 Lifetime\*

Bitcoin    Bitcoin

**7000 Seconds**

\$79.99 Monthly    \$240.00 Lifetime\*

Bitcoin    Bitcoin

**15000 Seconds**

\$159.99 Monthly    \$480.00 Lifetime\*

Bitcoin    Bitcoin

**30k Seconds**

\$129.99 Monthly    \$500 Lifetime\*

Bitcoin    Bitcoin

Packages do not automatically get charged every month by default

\* Lifetime is 5 years, the expected lifetime of li...

Dashboard

Tickets

Purchase

Referral System

4 Total Boots    0 Your Total Boots    0 Boots Running

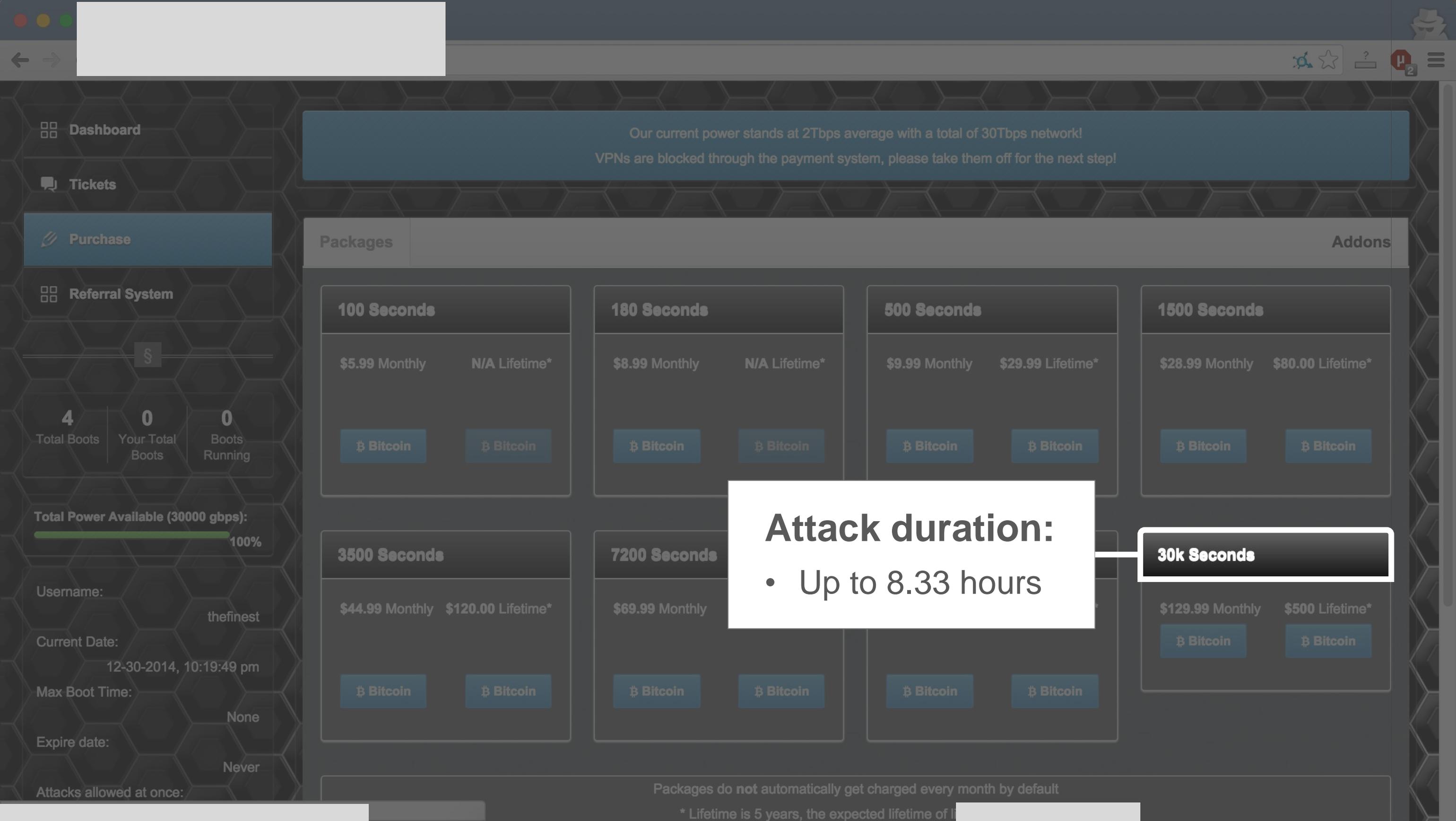
Username: thefinest

Current Date: 12-30-2014, 10:19:49 pm

Max Boot Time: None

Expire date: Never

Attacks allowed at once:



Our current power stands at 2Tbps average with a total of 30Tbps network!  
VPNs are blocked through the payment system, please take them off for the next step!

Packages

Addons

Dashboard

Tickets

Purchase

Referral System

\$

4 Total Boots | 0 Your Total Boots | 0 Boots Running

Total Power Available (30000 gbps): 100%

Username: thefinest

Current Date: 12-30-2014, 10:19:49 pm

Max Boot Time: None

Expire date: Never

Attacks allowed at once:

100 Seconds

\$5.99 Monthly N/A Lifetime\*

Bitcoin Bitcoin

180 Seconds

\$8.99 Monthly N/A Lifetime\*

Bitcoin Bitcoin

500 Seconds

\$9.99 Monthly \$29.99 Lifetime\*

Bitcoin Bitcoin

1500 Seconds

\$28.99 Monthly \$80.00 Lifetime\*

Bitcoin Bitcoin

3500 Seconds

\$44.99 Monthly \$120.00 Lifetime\*

Bitcoin Bitcoin

7200 Seconds

\$69.99 Monthly

Bitcoin Bitcoin

Attack duration:

- Up to 8.33 hours

30k Seconds

\$129.99 Monthly \$500 Lifetime\*

Bitcoin Bitcoin

Packages do not automatically get charged every month by default

\* Lifetime is 5 years, the expected lifetime of li

Our current power stands at 2Tbps average with a total of 30Tbps network!  
VPNs are blocked through the payment system, please take them off for the next step!

- Dashboard
- Tickets
- Purchase**
- Referral System

Packages

Addons

\$

4	0	0
Total Boots	Your Total Boots	Boots Running

100 Seconds	180 Seconds	500 Seconds	1500 Seconds
\$5.99 Monthly    N/A Lifetime*	\$8.99 Monthly    N/A Lifetime*	\$9.99 Monthly    \$29.99 Lifetime*	\$28.99 Monthly    \$80.00 Lifetime*
<a href="#">Bitcoin</a> <a href="#">Bitcoin</a>			

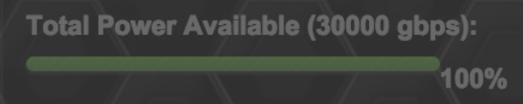
3500 Seconds	7200 Seconds	10800 Seconds	30k Seconds
\$44.99 Monthly    \$120.00 Lifetime*	\$69.99 Monthly		\$129.99 Monthly    \$500 Lifetime*
<a href="#">Bitcoin</a> <a href="#">Bitcoin</a>	<a href="#">Bitcoin</a>		<a href="#">Bitcoin</a> <a href="#">Bitcoin</a>

**Cost to attacker:**

- \$129.99 / month

\$129.99 Monthly    \$500 Lifetime\*

[Bitcoin](#)    [Bitcoin](#)



Username: thefinest

Current Date: 12-30-2014, 10:19:49 pm

Max Boot Time: None

Expire date: Never

Attacks allowed at once:

Packages do not automatically get charged every month by default

\* Lifetime is 5 years, the expected lifetime of li

In the first 6 months of 2015 saw 888 data breaches, 246 million records compromised worldwide



### NUMBER OF BREACH INCIDENTS

888

### TOP 10 BREACHES

### PERCENTAGE OF TOTAL RECORDS

82%

### PERCENTAGE OF BREACHES

### WHERE NUMBER OF COMPROMISED RECORDS WAS UNKNOWN

50%

DATA RECORDS WERE LOST OR STOLEN WITH THE FOLLOWING FREQUENCY

EVERY DAY  
1,358,671

EVERY HOUR  
56,611

EVERY MINUTE  
943

EVERY SECOND  
16

The largest breach in the first half of 2015 includes:

- 1) 78.8 million records exposed by identity theft attack on Anthem Insurance
- 2) 50-million-record breach at Turkey's General Directorate of Population and Citizenship Affairs
- 3) 21-million-record breach at the U.S. Office of Personnel Management
- 4) 20-million-record breach at Russia's Topface

The top 10 breaches accounted for 81.4% of all compromised records

Source: Gemalto

the **Menu** of HACKED ITEMS



Stolen Credit Card.....	\$0.50 - \$12
Stolen Email Accounts..... <small>Pack of 1,000</small>	\$0.50 - \$10
Stolen Gaming Accounts.....	\$10 - \$15
Stolen Health Insurance Credentials.....	\$20
Stolen Twitter Account.....	\$16 - \$325
Stolen Passport Scans.....	\$1 - \$2
Stolen Cloud Accounts.....	\$7 - \$8
Sim card..... <small>Registered and activated Russian mobile phone SIM card</small>	\$100
Botnets.....	\$20
Social Network Followers.....	\$2 - \$12
Fulliz..... <small>Stolen credit card with complete credentials</small>	\$20 - \$40
Stolen Identity Kit..... <small>Contains health insurance credentials</small>	\$20
Stolen Bank Account Credentials..... <small>For account with \$70,000 - \$150,000</small>	\$300

# Money, Money, Money



# The average budget required to recover from a security breach



**= USD\$551,000 for enterprises**  
**= USD\$38,000 for small and medium businesses(SMB)**

The average enterprise bill and probability of some of the consequences break down as follows:

	Cost (USD)	Probability of consequence
Professional services (IT, risk management, lawyers)	Up to \$84,000	N/a
Lost business opportunities	Up to \$203,000	29 per cent
Downtime	Up to \$1,400,000	30 per cent
Indirect spend on staffing, training and infrastructure upgrades	Up to \$69,000 for enterprises (Up to \$8,000 for SMBs)	N/a
Reputation damage	Up to \$204,750	N/a

By comparison, SMBs tend to lose a significant amount of money on almost all types of breach, paying a similar high price on recovering from acts of espionage as well as DDoS and phishing attacks.

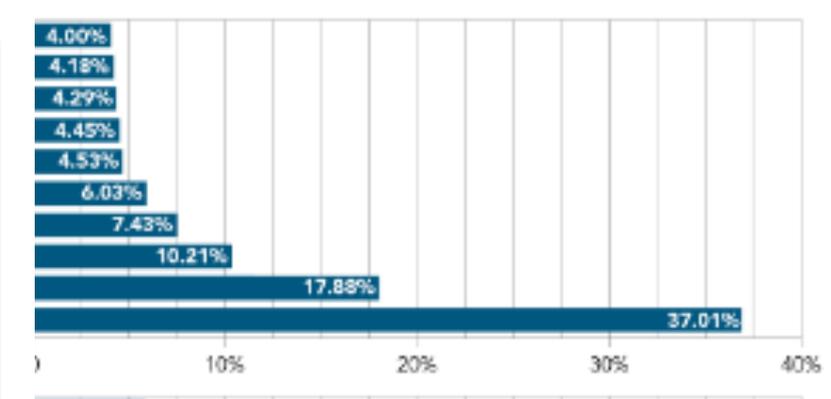
# Q2 2015 State of the Internet Security Report



## Top 10 Source Countries for Web Application Attacks, Q2 2015



## Top 10 Source Countries for DDoS Attacks by Quarter



## Agency by Industry

## Q2 2015 Attacks > 100 Gbps

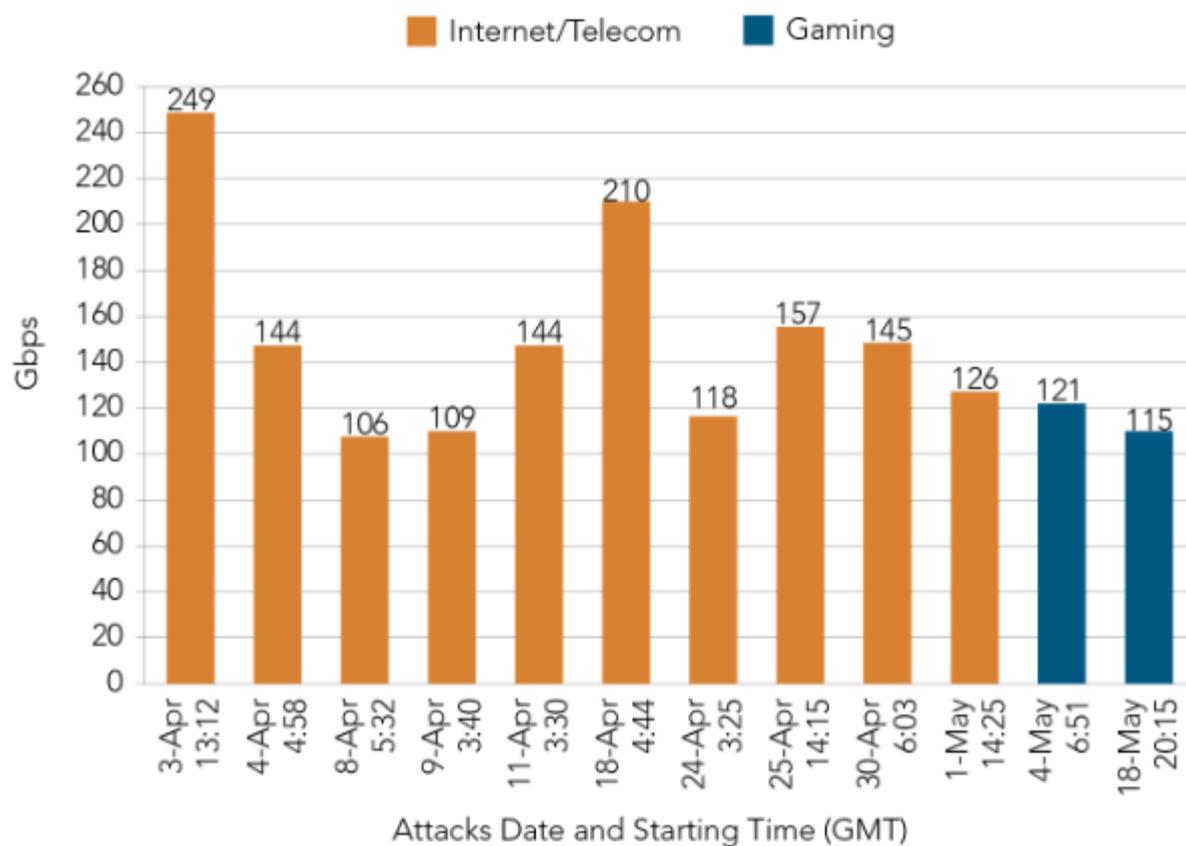


Figure 1-1: Ten of the mega attacks targeted the Internet and telecom industry



## Top 10 Source Countries for DDoS Attacks, Q2 2015

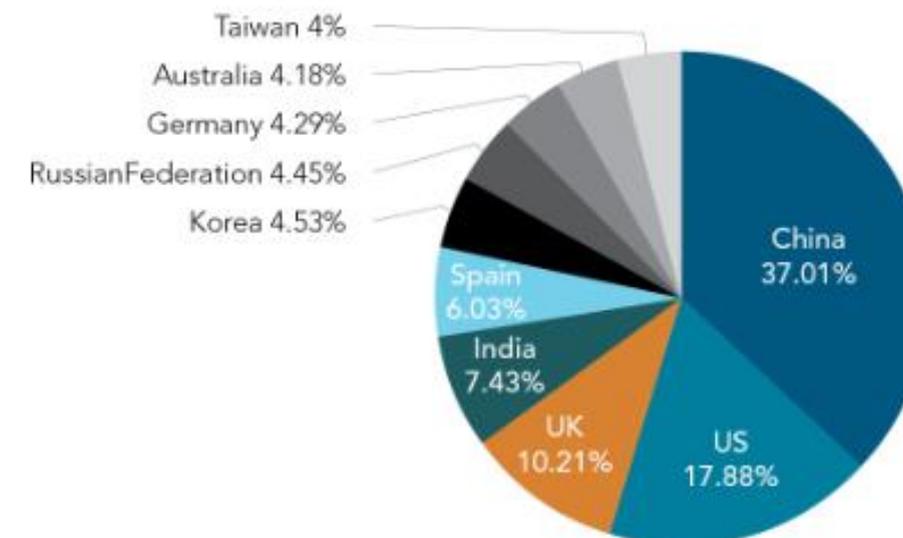


Figure 1-6: Non-spoofed attacking IP addresses by source country, for DDoS attacks mitigated during Q2 2015



## Norma

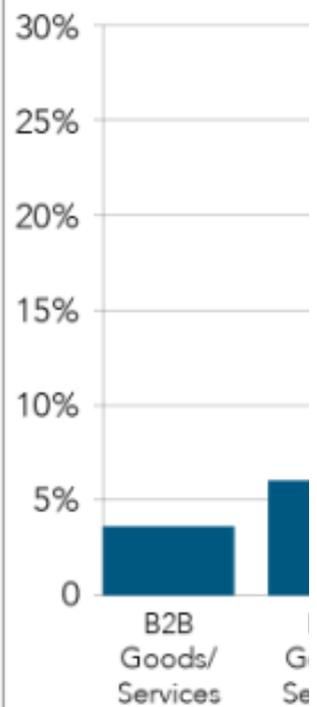


Figure 1-15: Distri application attack across the most c

# 2015: How Companies Now Prepare For Cyber Attacks



- **Layered defense** to DDoS new standard:
  - Strong perimeter defense (firewalls, IDS & IPS technologies etc)
  - Relationship & communication process with upstream ISP's
  - Akamai globally distributed cyber attack defense network
- Integrating Multiple Vendors & Technologies
  - Integrate into **Disaster Recovery Plan/ Business Continuity plan**
  - Test regularly with relevant vendors and internal teams
  - Deal with attacks using the most appropriate location...

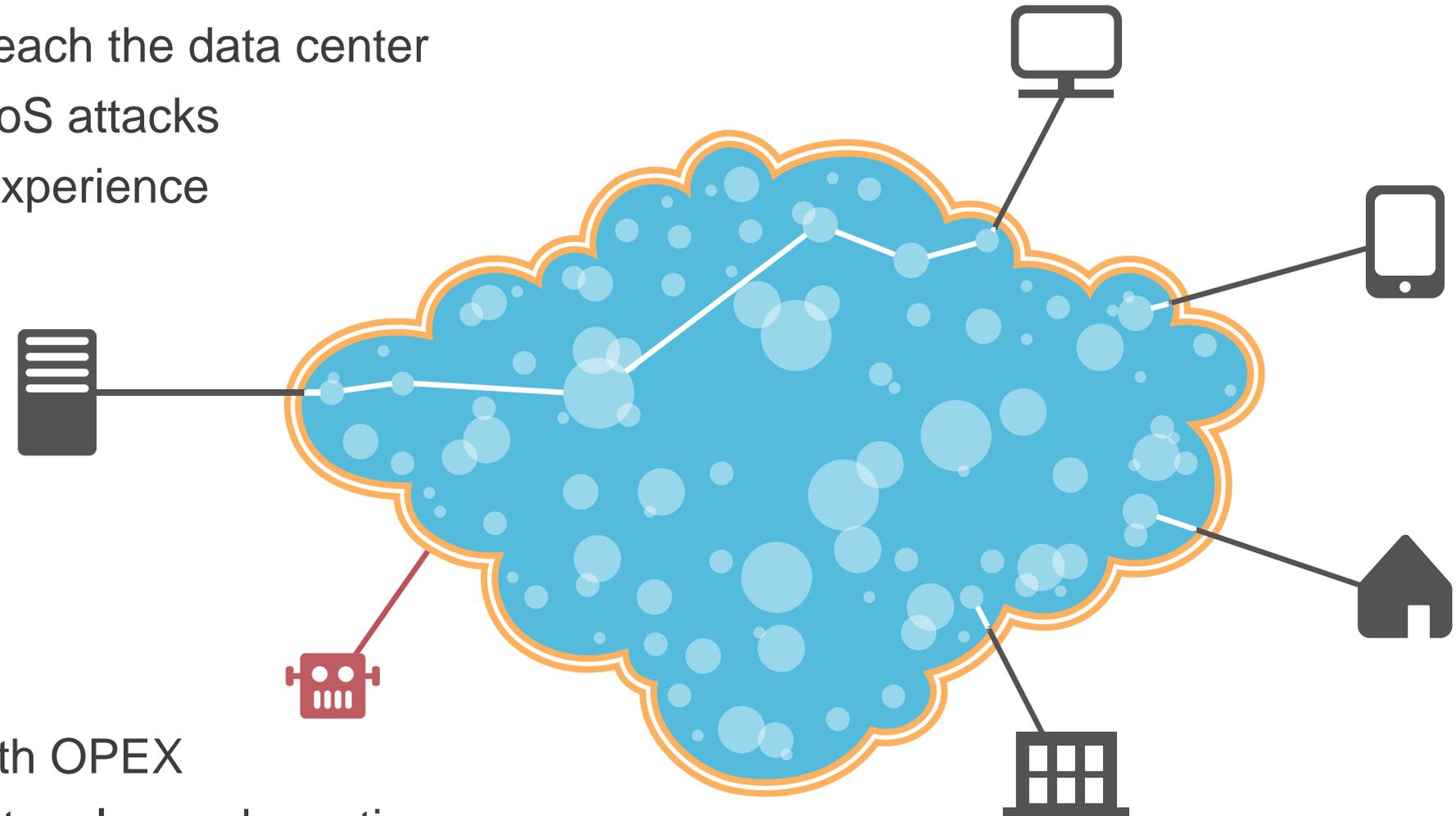
**Best results achieved through planning & testing**

# Cloud: The Right Service Delivery Model



## Platform

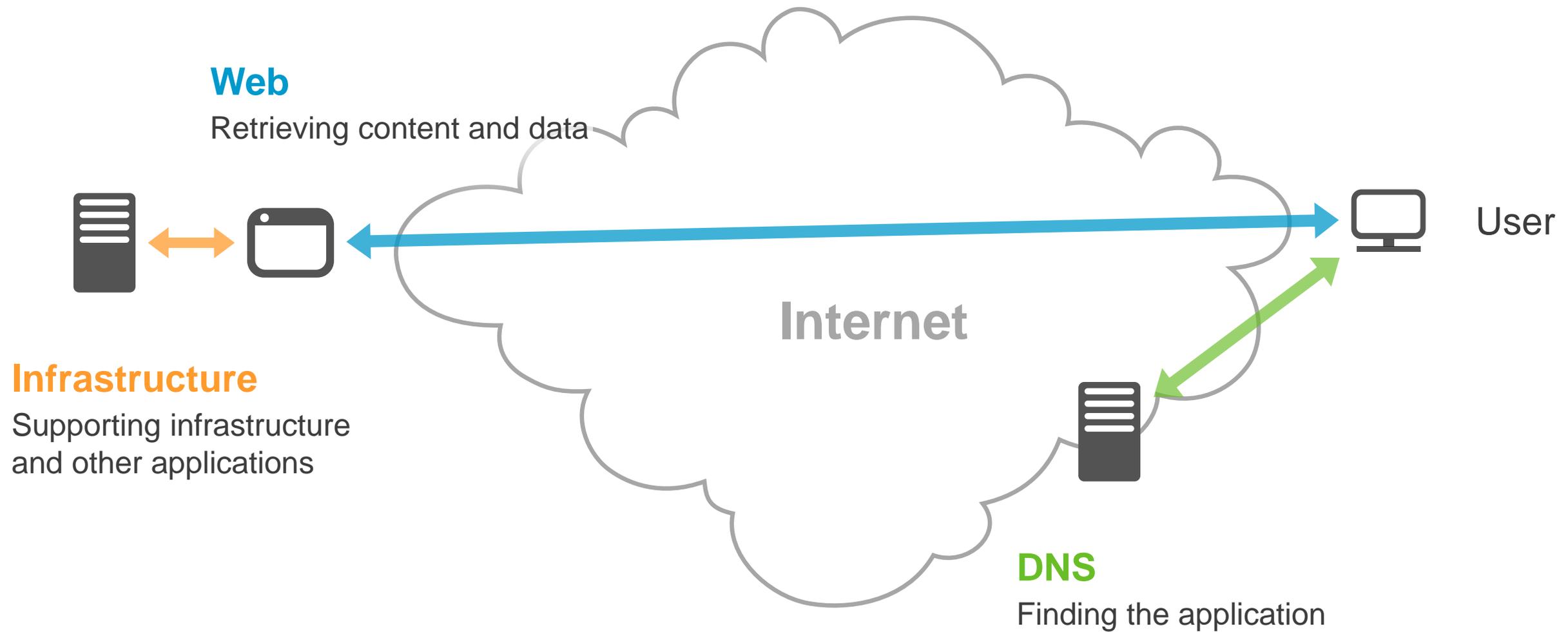
- Stop attacks before they reach the data center
- Grows with the size of DDoS attacks
- Provide world-class web experience



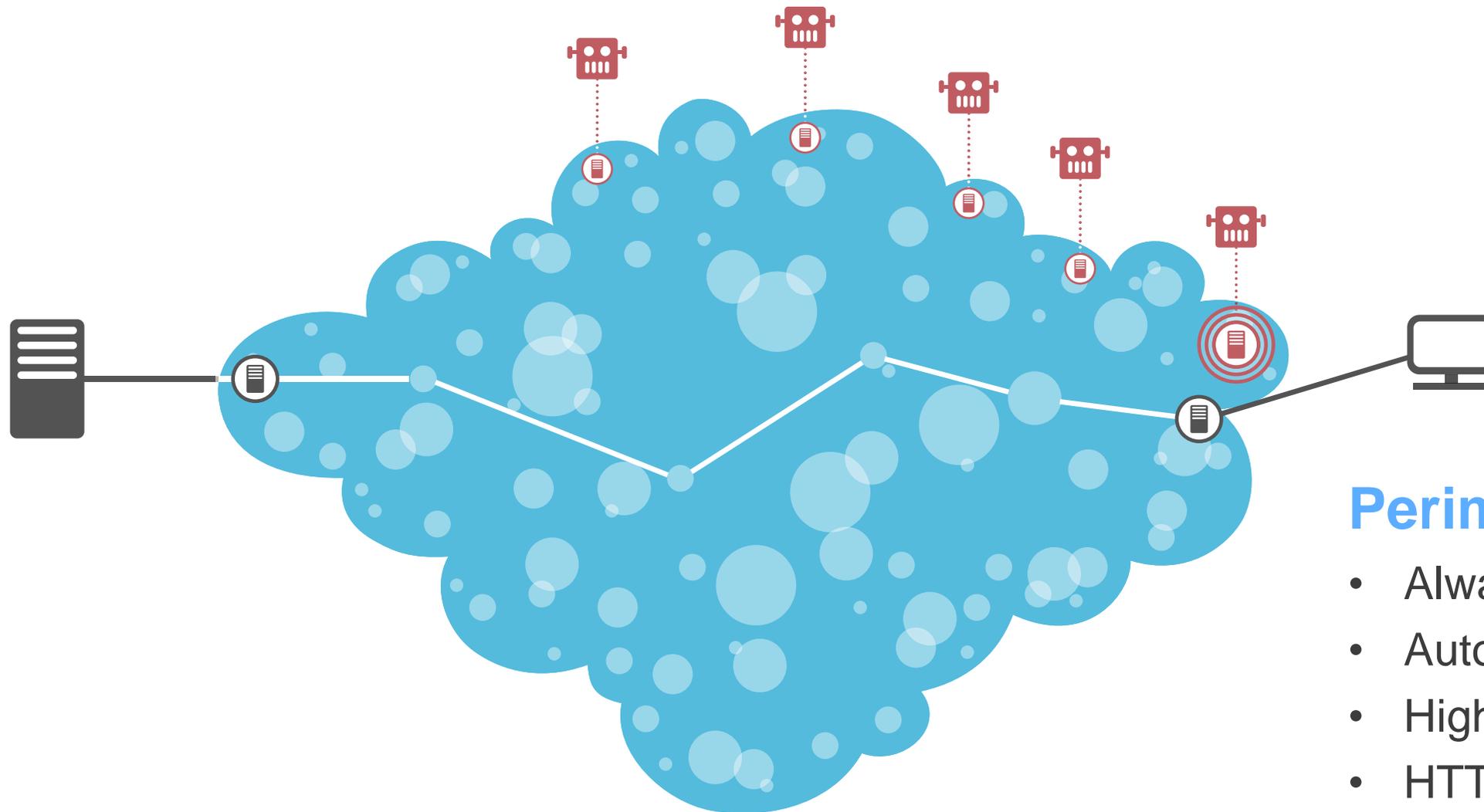
## Service

- Replace upfront CAPEX with OPEX
- Continuously refined security rules and practices
- Access to Akamai resources and expertise

# Multiple Perimeters for Internet-Facing Applications



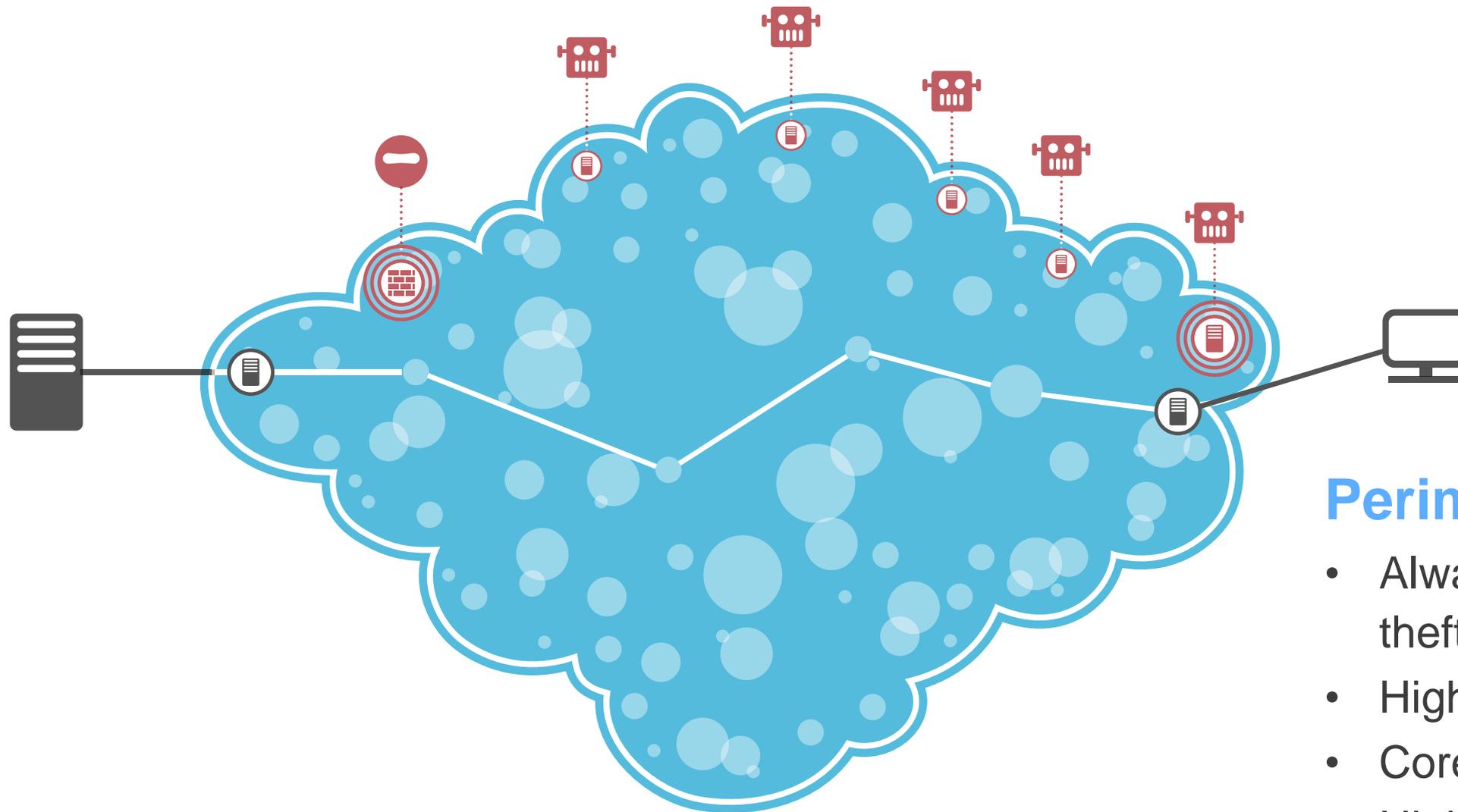
# Protecting Multiple Perimeters in the Cloud



## Perimeter 1 – Web (DDoS)

- Always-on defense
- Automated (rate controls, caching)
- High performance
- HTTP / HTTPS (Port 80/Port 443)
- Local or cloud-based applications

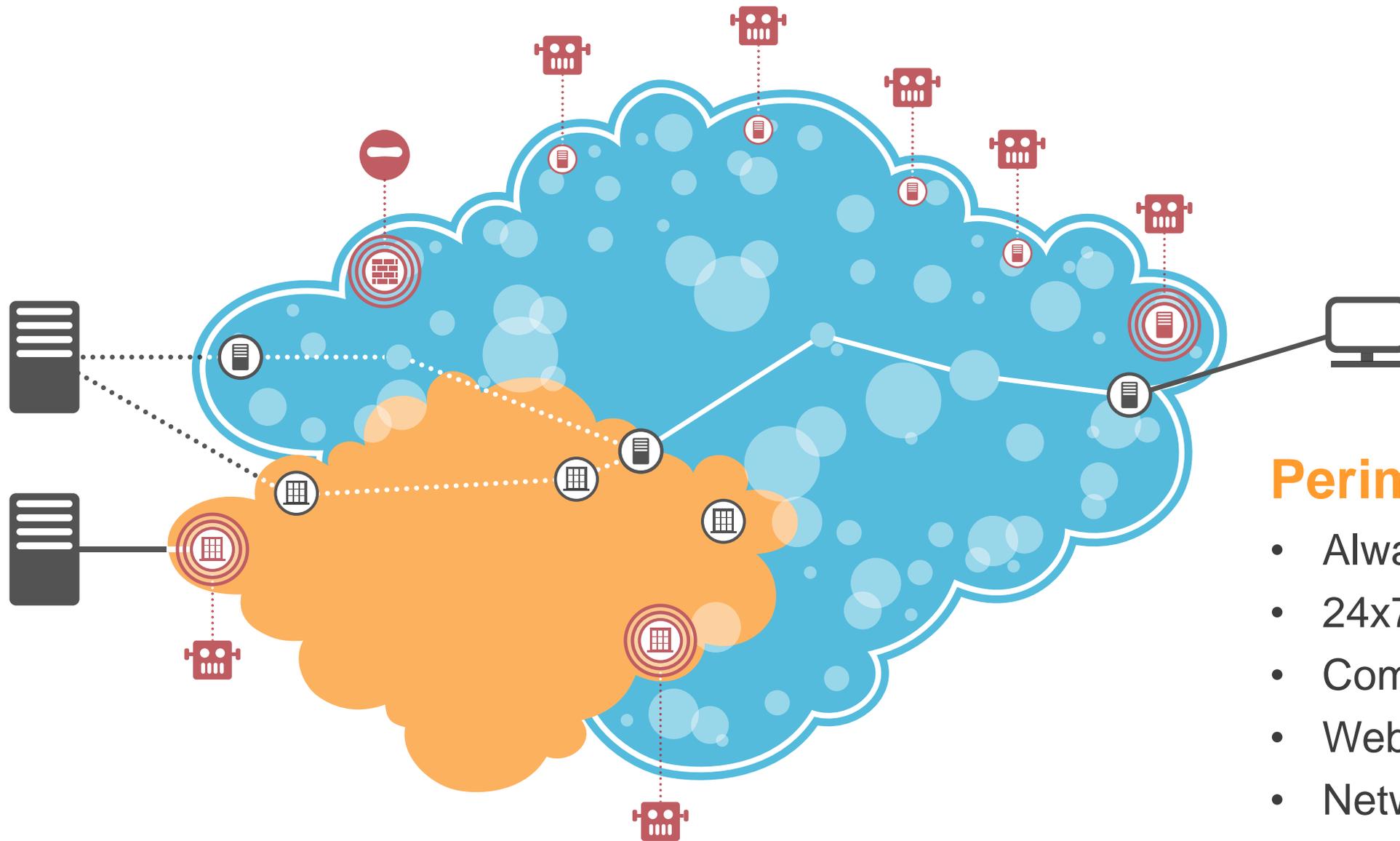
# Protecting Multiple Perimeters in the Cloud



## Perimeter 2 – Web (WAF)

- Always-on defense against data theft/breach/scraping
- High performance and scalability
- Core Rule Set + Kona Rule Set
- Highly accurate (reduced FP, FN)
- HTTP / HTTPS
- Local or cloud-based applications

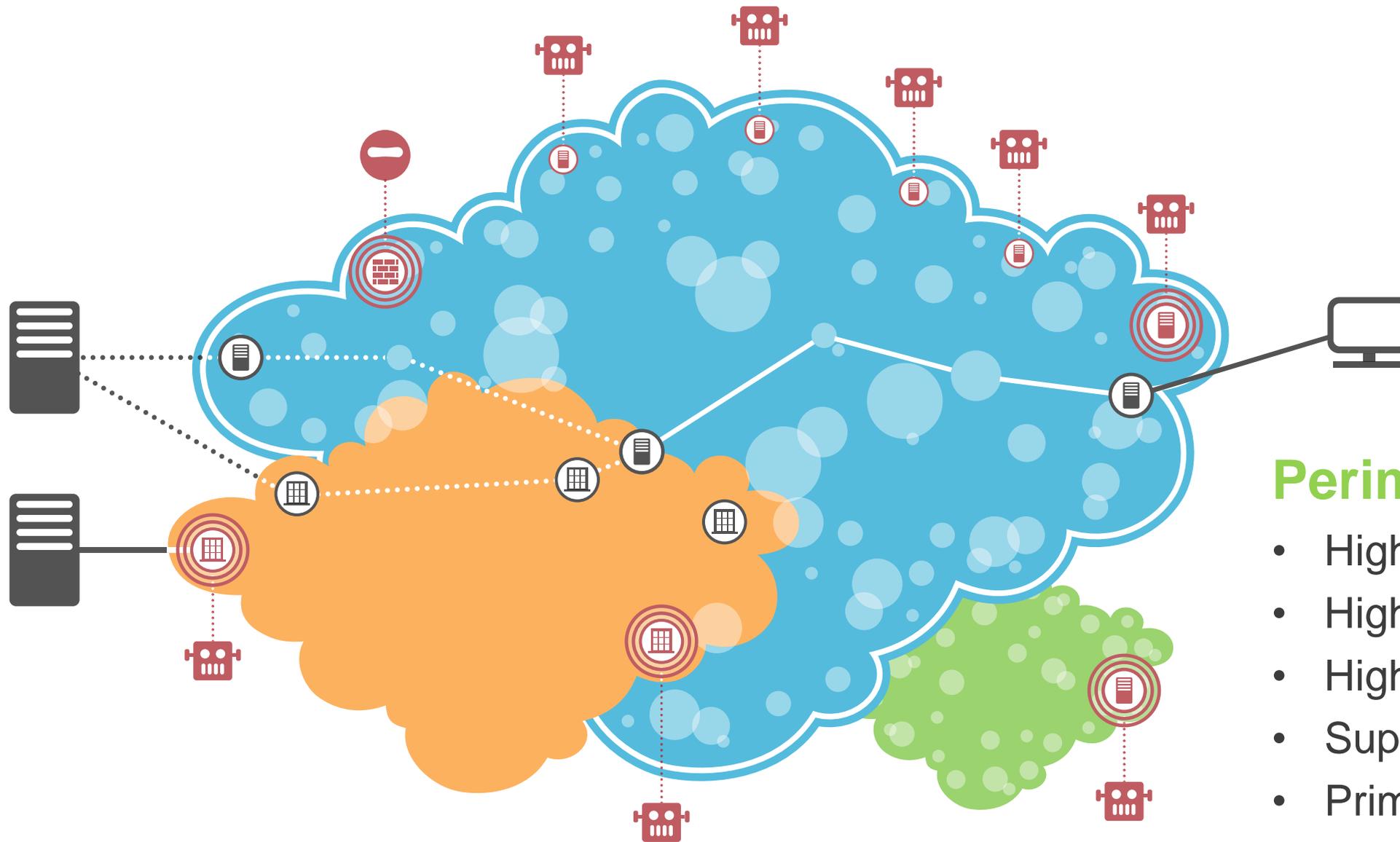
# Protecting Multiple Perimeters in the Cloud



## Perimeter 3 – Origin (DDoS)

- Always-on or on-demand
- 24x7 SOC (5-20 min SLA)
- Comprehensive (subnet granularity)
- Web and IP applications
- Network infrastructure + bandwidth
- ASN, Class-C, BGP Routers

# Protecting Multiple Perimeters in the Cloud



## Perimeter 4 – DNS

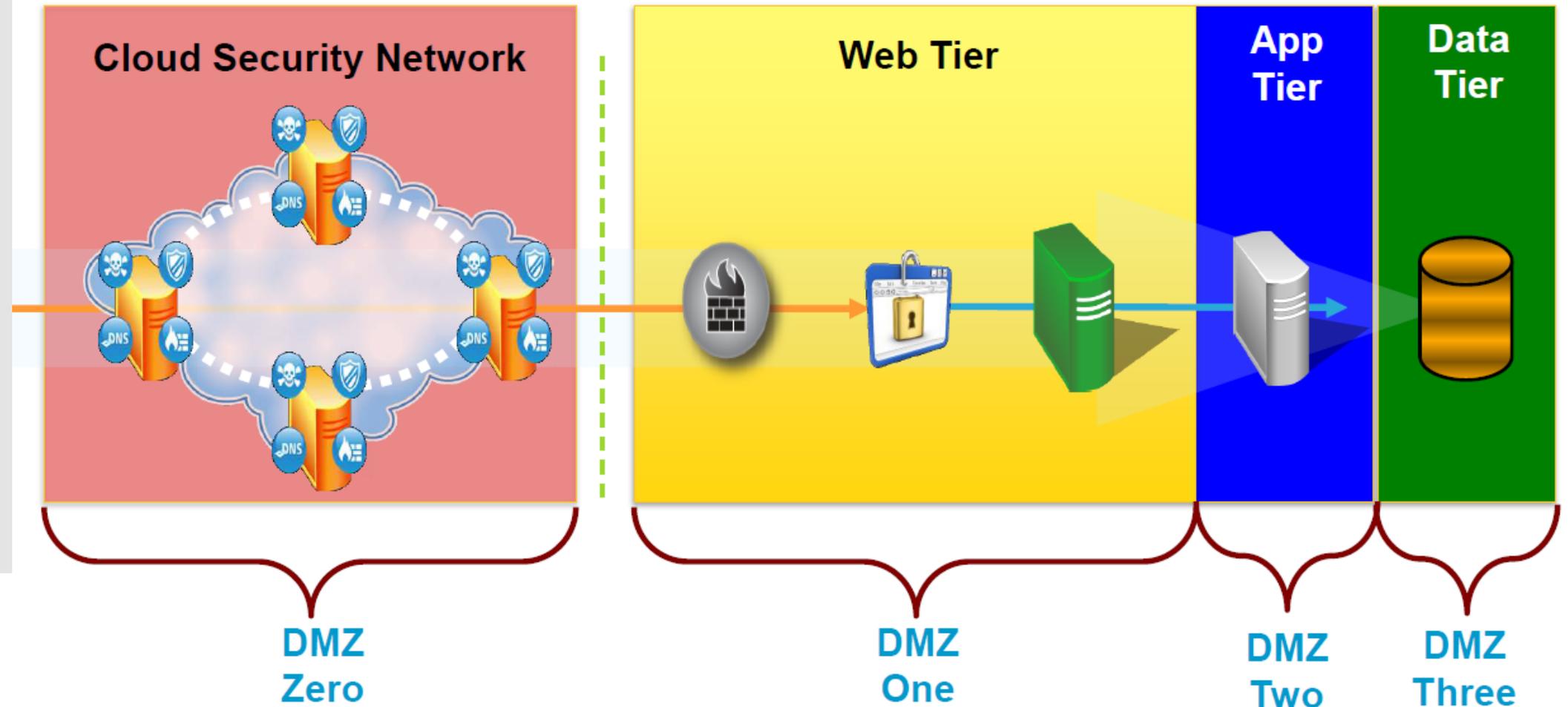
- Highly scalable (<1% total capacity)
- Highly available (24x7 SLA)
- High performance (zone apex)
- Supports DNSSEC
- Primary and secondary DNS

# Layered Defense to Protect



## — Cloud Security Network – DMZ Zero

1. Perimeter 1 – Web (DDoS)
2. Perimeter 2 – Web (WAF)
3. Perimeter 3 – Origin (DDoS)
4. Perimeter 4 – DNS



# How to evaluate Cloud Security Service Providers



## 1. Threat Intelligence

- Do you have an internal DDoS threat intelligence research group?
- What threat intelligence do you publish and provide to your customers?

## 2. Front-line Experiences

- How many years have you been providing DDoS protection service to the public?
- Do you have a large customer base supporting the cost of network and mitigation capacity growth?

## 3. Mitigation Capabilities

- What methods of traffic redirection do you support?
- Do you have options for both on-demand and always-on DDoS service options?
- Can you protect my DNS servers even if they are located in a third-party hosted environment?
- Do you provide a time-to-mitigate Service Level Agreement (SLA)?
- Do you provide any cloud security services beside DDoS?
- What types of attacks have you successfully mitigated?
- Do you offer a fully managed DDoS service? How do you drive the mitigation strategy?
- What types of redundancies are provided in each one of your network and mitigation platforms?

## 4. Mitigation Capacity

- What is the network and mitigation capacity for each one of your protection platforms?
- Are there any fixed caps or fees associated with attack size or number of attacks?
- How is your network and mitigation capacity distributed across the globe? Does the service use Anycast or a similar technology to distribute the attack traffic across multiple locations?
- Have you ever experienced a network outage due to a DDoS attack?
- What is the largest attack you've ever mitigated successfully on each of your protection platforms?
- Have you ever denied service due to defending multiple simultaneous attacks?



Q & A

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