

2015 Cybersecurity: Attack Resiliency Challenges Industry Collaboration



Attackers are commandeering legitimate infrastructure and reaping millions in profit.



Defenders are struggling to detect and combat threats, and confidence is falling.

Attackers Evade and Reconstitute

Attackers are building resiliency into their operations. If detected, attackers quickly reconfigure and can reconstitute on new systems with new IPs in minutes

Angler

This attack often goes undetected by commandeering high reputation resources

15K unique sites redirect traffic via malvertising

Proxy Servers
Multiple servers without malware, but with commingled resources on legitimate hosting providers, funnel users toward exploit servers

Exploit Servers
60% of payloads are ransomware. Delivery is global and through multiple providers

Status Servers
If operating status is compromised, or tampering is detected, the attackers are alerted

Small IP Infrastructure
Attackers can roll through IPs on 8-12 active systems per day

\$60M /year estimated profit from just two identified campaigns alone

SSHPsycho

The global, collaborative, brute-force attack

DDoS
10,000 X Machines leveraged

Botnet Set Up
1. China-based brute-force password attacks to create botnet
2. 24 hours later, US-based login with harvested passwords, to download DDoS root-kit on compromised devices

Massive Impact
35% of all SSH traffic across the Internet was comprised by SSHPsycho

Commingled and Compromised
221% increase in compromised WordPress sites

Defenders Lack Collaboration

Defender confidence in their ability to detect, defend, and recover from cyber attacks is falling, while regulators and investors are seeking more visibility into organization's cyber risk strategy.

Falling Confidence

Confidence in having the latest technology down to 59%
NOT having the latest technology increased to 37%

Before

54% confidence in ability to verify an attack occurred

During

54% confidence in ability to defend against attacks

After

46% confidence in ability to scope and contain an attack

Compromised and Fractured

92% of Cisco devices surveyed across the Internet were running known vulnerabilities, with an average of 26 each

31% of Cisco devices surveyed were EOS

5% of Cisco devices were EOL

56% review security policies on a regular basis

Constraints

Organizations exhibit low degree of collaboration: During security incidents, only

- 21% notify business partners
- 18% notify external authorities
- 15% insurance companies

Barriers to adopting advanced security technology

- 39% Budget
- 32% Compatibility issues
- 25% Certification requirements



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