


FortiGuard – Advanced Threat Response

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High Performance Network Security

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Threat Landscape Update & Strategy

What is FortiGuard?



- FORTIGUARD ANTI-VIRUS SERVICE
- FORTIGUARD APPLICATION CONTROL SERVICE
- FORTIGUARD ANTI-SPAM SECURITY SERVICE
- FORTIGUARD INTRUSION PREVENTION SERVICE
- FORTIGUARD WEB SECURITY SERVICE
- FORTIGUARD WEB FILTERING SERVICE
- FORTIGUARD DATABASE SECURITY SERVICE
- FORTIGUARD VULNERABILITY MANAGEMENT SERVICE
- FORTIGUARD IP REPUTATION SERVICE

FortiGuard Services

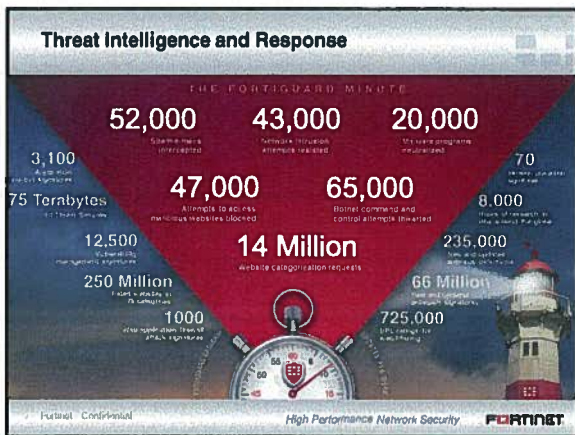
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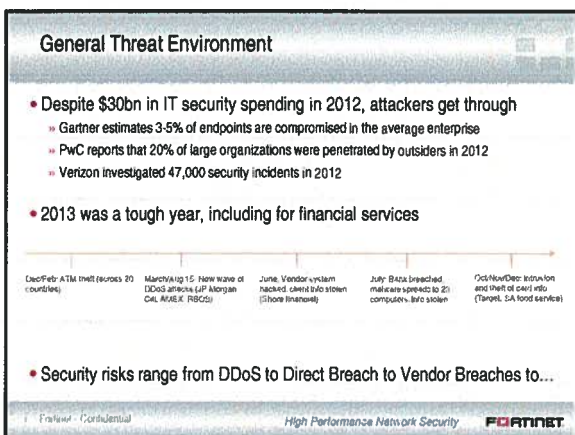
Threat Intelligence & Response

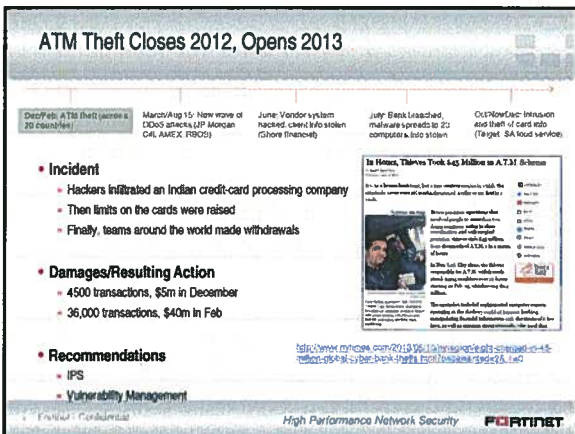
- 200+ Researchers
- Millions of sensors
- Collaboration
 - » Threat Monitoring



Fortinet's Own High Performance Network Security **FORTINET**







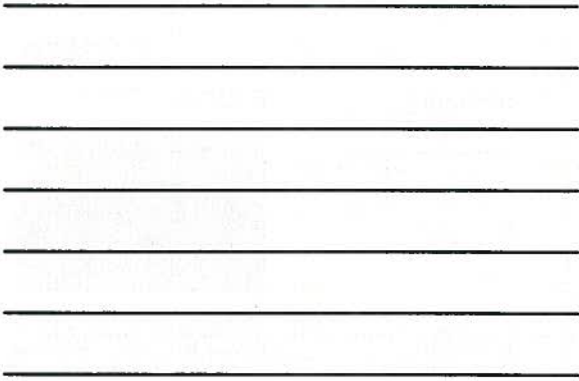
Ditto for DDoS in 2012/2013

Dec/Feb: ATM theft (across 20 countries) | Dec/March/Aug 11: New wave of DDoS attacks (Bank of America, Citigroup, AMEX, RBC) | June: Vendor system hacked, client info stolen (Vivare Insurance) | July: Bank breached, malware spreads to 23 computers, info stolen | Oct/Nov/Dec: Breach and theft of client info (Target, SA food services)

- Incident**
 - Multiple counts of DDoS taking online banking offline
 - Sometimes just a service interruption
 - Other times coordinated with financial theft
- Damages/Resulting Action**
 - \$900,000 stolen from one account
 - Multiple material impacts reported in financials
- Recommendations**
 - Leverage DDoS service and products together
 - Big Data / Analytics

19 DDoS Attack on Bank Hid \$900,000 Cyberheist
 A cybercriminal group in the United States is believed to have stolen \$900,000 from a Bank of America account in a DDoS attack. The group, which is believed to be the same group that stole \$100 million from a Citigroup account in a similar attack last year, is believed to have used a DDoS attack to take the bank's website offline. The group is believed to have used a DDoS attack to take the bank's website offline for several hours. The group is believed to have used a DDoS attack to take the bank's website offline for several hours. The group is believed to have used a DDoS attack to take the bank's website offline for several hours.

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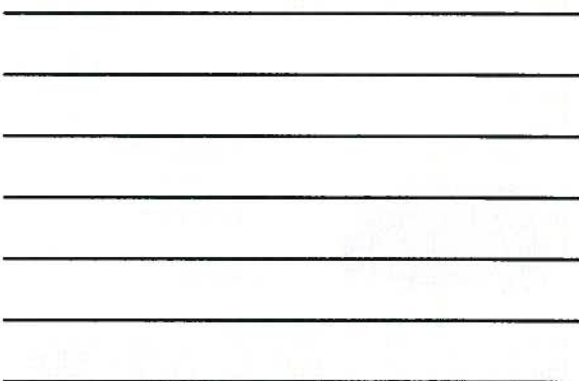


Financials only as strong as the weakest link

Dec/Feb: ATM theft (across 20 countries) | March/Aug 11: New wave of DDoS attacks (JP Morgan, Citigroup, AMEX, RBC) | June: Vendor system hacked, client info stolen (Vivare Insurance) | July: Bank breached, malware spreads to 23 computers, info stolen | Oct/Nov/Dec: Breach and theft of client info (Target, SA food services)

- Incident (unconfirmed)**
 - Mortgage provider relies on vendors to process client information
 - Vendor's server was breached and personal information stolen, notified by vendor in August
 - Follows previous breach of systems from December through January
- Damages/Resulting Action**
 - Cost of notification and credit monitoring
 - Cost of forensic investigation
 - Increased controls internally and with vendors
- Recommendations**
 - Vendor selection (review Product Security)
 - Incident response

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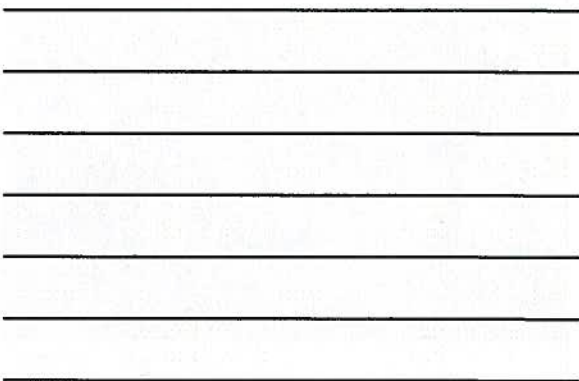


And even a single compromise can have significant impacts

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- Incident (unconfirmed)**
 - Employee computer breached, malware spreads to 23 PCs
 - Designed to capture on-screen information
 - Initial compromise occurred in February, undetected until May
- Damages/Resulting Action**
 - Believed to impact entire customer base (116k accounts)
 - Costs of notifications and forensic investigation
- Recommendations**
 - UTM/Layered Security
 - Application Control / Egress Inspection

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Advanced Threat Protection

Advanced Persistent Defense

Three Step Approach to APT Defense

Step 1 - Mitigate

- Mitigate threats before they enter your network
- Proactive is key

Step 2 - Discover

- Discover threats that have or tried to enter the network

Step 3 - Respond

- Respond to threats that have entered the network

UTM & NGFW Sandbox Incident Response

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Summary

- **Defense Strategy**
- **Proactive:**
 - » Protect Against APT (Gateway/MSS)
 - » Threats need microseconds to be damaging
 - » Rely on security experts
 - » **Reactive:**
 - » Incident Response
 - » Have a resource for incident response
 - » Understand the threat
- **Free Proactive Planning**
 - » Patch Management
 - » Employee Education
 - » Free RSS Feeds
 - » Workshops
 - » Leverage Managed Security
 - » Encryption
 - » Redundancy
 - » Retention
 - » Can be indirect through security vendor
 - » BYOD planning

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