



## Top 5 Security Trends for 2015

Presented: March 17, 2015

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# MEET THE SPEAKERS

- MacKenzie Mizenko
  - Consultant
  - Specialized in Security Awareness and Training
  - Works with risk management, PCI, and HIPAA compliance
- Computer information systems advisory board member at Fortis College
  
- Anthony Catalano | CISSP, PCI QSA
  - Sr. Associate Management Consultant
    - Develops solutions to address clients' business needs and solve complex security problems
  - Over 10 years of experience working in the security industry
  - Specialties:
    - Qualitative & Quantitative Risk Assessment
    - Risk Management
    - Medical Device Security
    - Cyber Liability Insurance

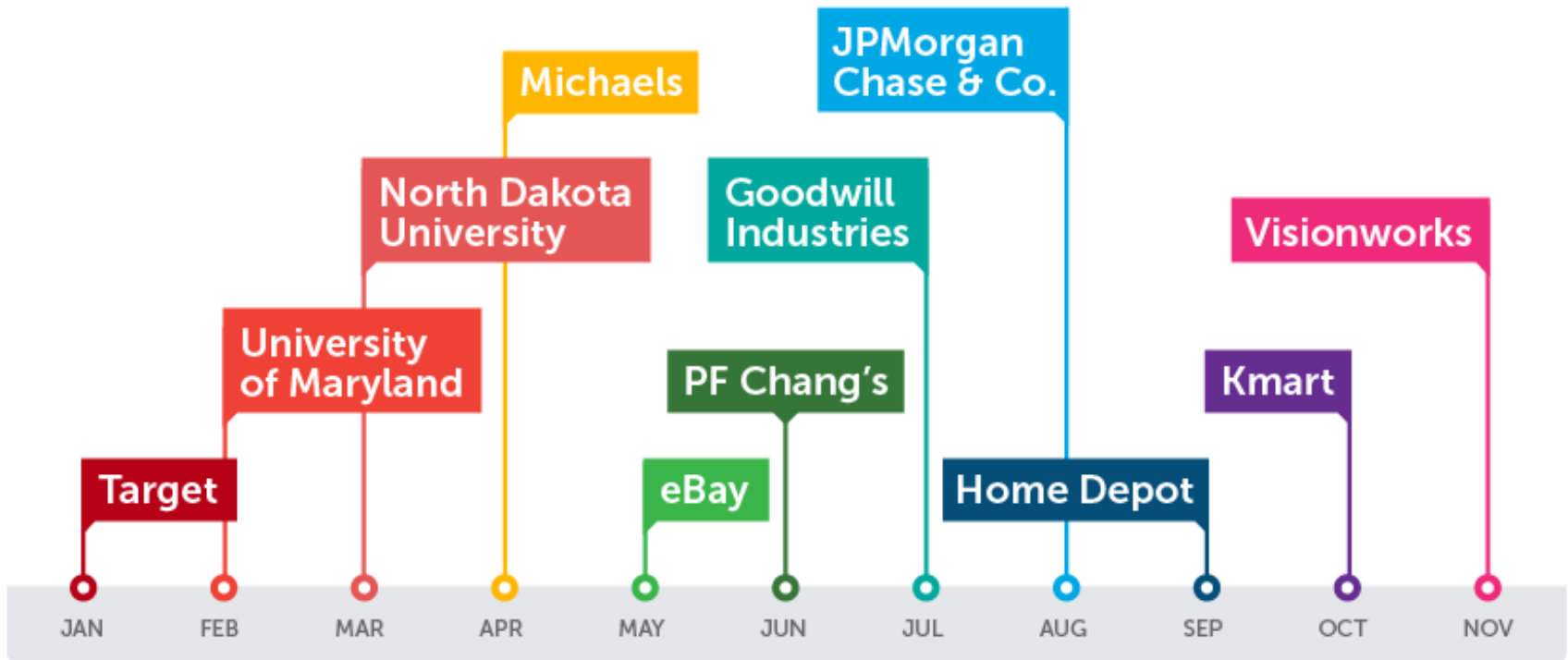


- A quick look back
- BYOT
- Mobile Payment Systems
- Smartphone Vulnerabilities
- What do you have to lose?
- A look back at “forgotten” threats.
- Conclusion
- Q&A





# A LOOK BACK AT 2014





# BRING YOUR OWN TECHNOLOGY

- What types of new technologies are at risk?
- Incidents on the rise
- IT managers are struggling
- Increase in devices connecting to corporate networks
- Cost of incident response and repair is increasing



(1) Source: <http://www.zdnet.com/article/byod-why-the-biggest-security-worry-is-the-fool-within-rather-than-the-enemy-without/>

(2) Source: <http://www.checkpoint.com/press/2014/check-points-third-annual-mobile-security-survey-highlights-careless-employees-greatest-mobile-security-threat.html>





# MOBILE PAYMENT SYSTEMS

- Four features
- Types of mobile payment
- Data Loss
- Convenience vs. Security
- Use for financial management is increasing



(1) Source: <http://www.sans.org/reading-room/whitepapers/ecommerce/security-mobile-banking-payments-34062>



# SMART PHONE/DEVICE VULNERABILITIES

- Viruses
  - Malware
  - SMS Trojans
- Risks of jail breaking and rooting
- SMS
  - Susceptible to misuse
  - Android.Opfake
  - DDSPy
- Mitigation





# SMART PHONE/DEVICE MITIGATION

Risk	Mitigation
Mobile more susceptible for loss or theft	<ul style="list-style-type: none"><li>• Customer education</li><li>• Implementation of remote wipe, passcode and auto-lock out</li></ul>
Users more likely to store personal and sensitive information on mobile device	<ul style="list-style-type: none"><li>• Device encryption</li><li>• Ensure applications don't store sensitive data locally</li></ul>
Malware	<ul style="list-style-type: none"><li>• Mobile malware protection</li><li>• Don't jailbreak device</li></ul>
Malicious actors	<ul style="list-style-type: none"><li>• Education</li></ul>





# YOU HAVE NOTHING TO HIDE UNTIL YOU DO

- Who is at risk of being breached in 2015?
- What type of data is being targeted this year?
  - Cardholder Data (CHD)
  - Personal Health Information (PHI)
  - Personally Identifiable Information (PII)
- How much is your data worth?





# HOW MUCH IS YOUR DATA WORTH?

- **Brazilian Underground**
  - Set of business application account credentials
  - Set of credit card credentials
  - Set of online service account credentials
  - List of mobile phone numbers
  - List of landline phone numbers
- **Chinese Underground**
  - Personal information dump per MB
  - Set of email account credentials
  - Set of entertainment site credentials
  - Set of online gaming account credentials
- **Russian Underground**
  - Set of credit card credentials
  - 300 IP addresses

**Source:** <http://www.trendmicro.com/vinfo/us/security/special-report/cybercriminal-underground-economy-series/global-black-market-for-stolen-data/#section-5>

**Source:** <http://www.networkworld.com/article/2880366/security0/anthem-hack-personal-data-stolen-sells-for-10x-price-of-stolen-credit-card-numbers.html>



# LOOK BACK TO MOVE AHEAD

- Do not let the focus on security trends blind you from current and past threats

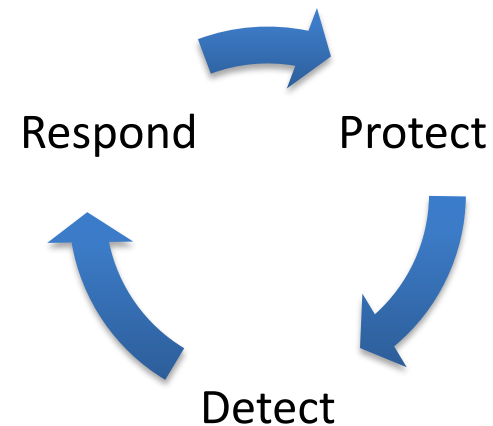
- Everyday Viruses
- Heartbleed
- Shellshock



- Keep active and stay vigilant against threats new and old
- Learn from past mistakes to move forward and stay ahead of the curve



- Remember the basics
- Move into monitoring/alert response
- Protect
- Detect
- Respond





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- <http://www.darkreading.com/attacks-breaches/ebay-breach-is-your-identity-up-for-auction/a/d-id/1269162>
- <http://www.networkworld.com/article/2880366/security0/anthem-hack-personal-data-stolen-sells-for-10x-price-of-stolen-credit-card-numbers.html>
- <http://www.trendmicro.com/vinfo/us/security/special-report/cybercriminal-underground-economy-series/global-black-market-for-stolen-data/#section-5>
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