Agenda

- 1. Do You Need to Be Concerned?
- 2. What organizations can do to better protect
- 3. What you can do personally to better protect
- 4. Questions

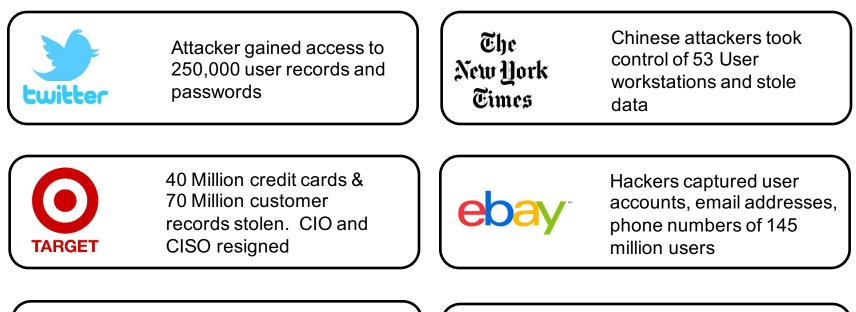
Do You Need to Be Concerned?

Video

What is Your Password?

Understanding the threat landscape

ALL COMPANIES ARE ALL AT RISK. NO MATTER THE SIZE OR INDUSTRY.



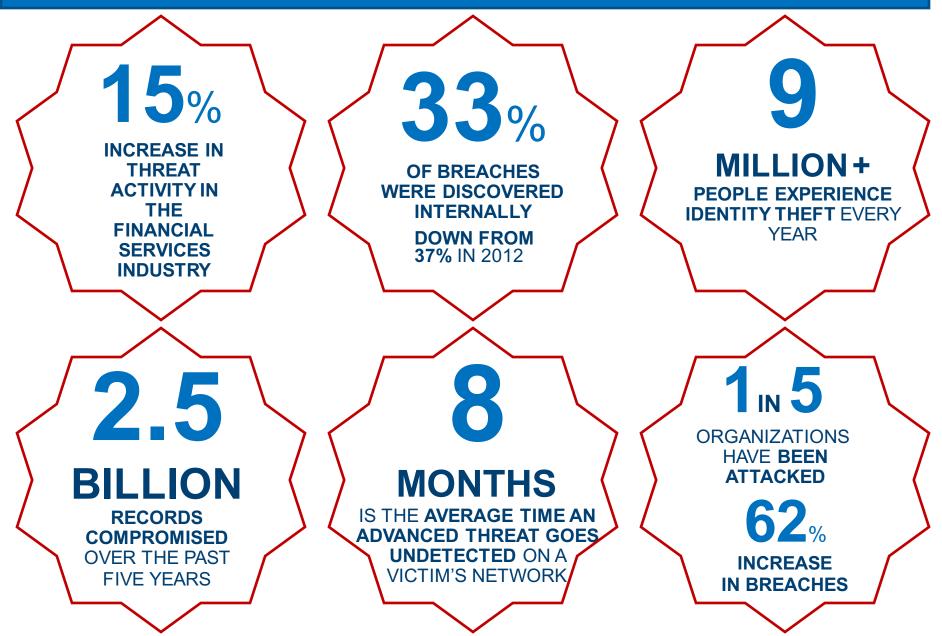


80 Million Customer Records Stolen

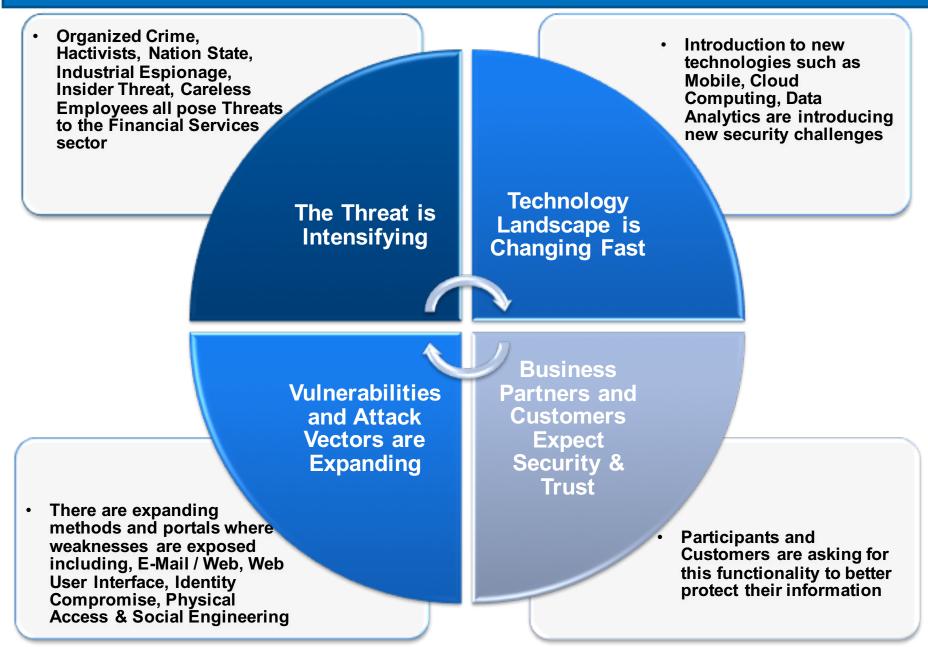


53 Million eMail addresses stolen. Stolen account information obtained by a third-party to gain access

Understanding the threat landscape



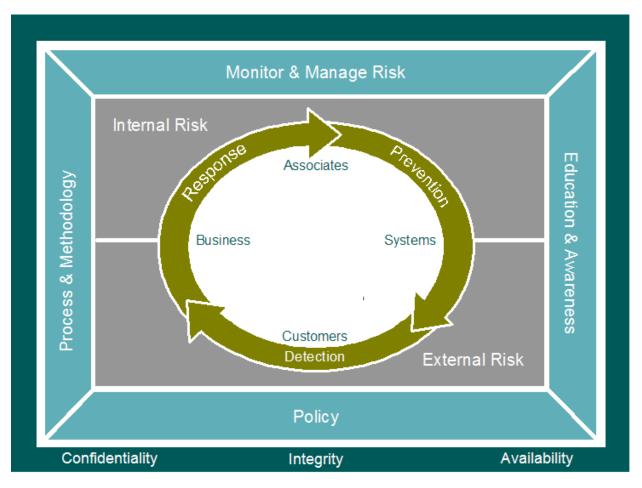
Understanding the threat landscape



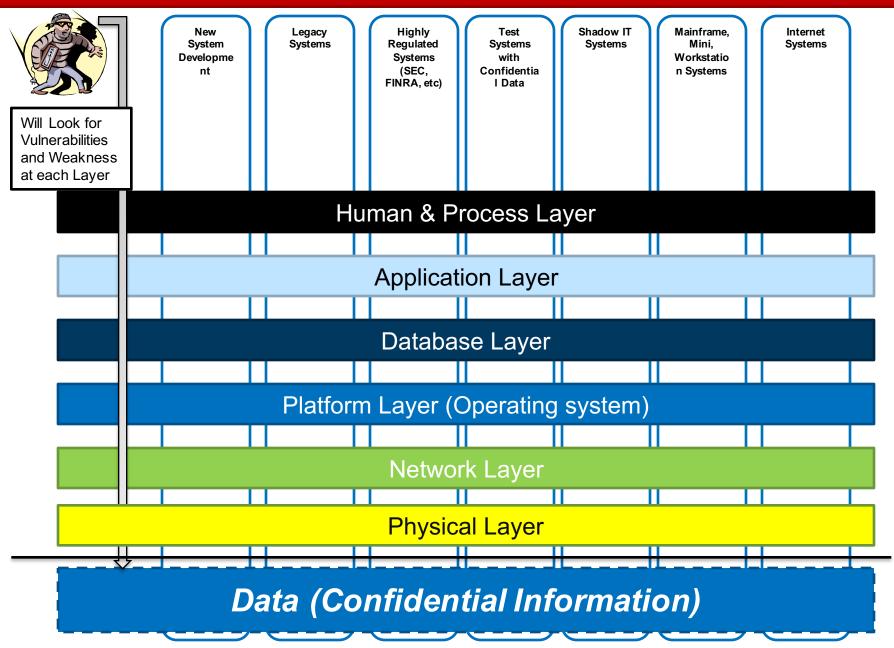
What organizations can do to better protect?

A Risk Management Framework

Aspects of the Risk Management Cycle & Components



Security Management



Defense in Depth

(Area's for <u>Preventative</u> Care)

- **Physical Layer** Locked Computer Rooms / Data Center, Building Security, Unsecure Laptops, Closets, etc.
- **Network Layer** Network Architecture, Firewall, DMZ's, Router Configurations, Filters, etc.
- **Platform Layer** O/S Patches, Templates, Configuration, etc.
- **Database Layer** (e.g., Oracle, SQL) Patches, Templates, Configuration, etc.
- Application Layer Authentication and Authorization Engines/Architecture, Secure Coding Practices, OWASP Top 10 (SQL Injection, Cross Site Scripting, Secure eMail, Optium etc.)
- Process Social Engineering, Phishing, Provisioning Processes, Account Management, Generic ID Management, <u>Education &</u> <u>Awareness</u>, Policy Management, Change Management, Segregation of Duties)

Detection

(Area's for <u>Detective</u> Care)

- Physical Layer Audits, Interview, Visual Observations
- Network Layer Vulnerability Scanning Tools (nessus), Attack and Penetration Testing's, Intrusion Detection, Intrusion Prevention
- **Platform Layer** Vulnerability Scanning Tools
- Database Layer Vulnerability Scanning Tools, Database security tools; Inspection's
- **Application Layer** Vulnerability Scanning Tools, Password Crackers, etc.
- Process Access Review Tools, Social Engineering Testing, Audits, Open Risk & Issue Management
- Across Multiple Layers Data Loss Prevention (DLP), Forensic Capabilities (e.g., outsourcing), Anti-Virus, Advance Persistent Threat detection

It should be "Everyone's" Job

Baking Security into the Practitioners Role - Notes

- Define the What and the How.....
- Re-use/leverage existing awareness and education documentation
- Conduct More Education and Awareness (E&A)
- Establish targeted E&A to by role specific
- Establish Roles & Responsibilities document (by role)
- Establish Decision Rights
- Establish Consequences for non-compliance
- Establish a checklist of controls for Asset Owners
- Establish Self audit process (including validation)
- Establish process to revisit based on risk
- Handbook for the Role of the asset owner

What Can You Do to Better Protect Yourself and Your Sensitive Data?

Over Sharing and Social Media Tips

- ✓ Consider what you post
- ✓ Control visibility and privacy
- ✓ Routinely check your settings
- ✓ Respond to a breach



Ways to Protect

- ✓ Turn on WPA2
- Make passwords long and strong
- ✓ Unique account, unique password
- ✓ Keep a clean machine
- ✓ Automate software updates
- ✓ Admin user account only to complete a specific task
- \checkmark Consider the information you post on social sites
- ✓ Enable a firewall (Personal Firewall)
- ✓ Limit use of administrator accounts
- ✓ Protect your \$\$
- Don't be tricked into opening an attachment or providing confidential information about yourself
- ✓ Never provide your user ID & password via a clicked-on link from an email or text
- \checkmark When in doubt, throw it out

Recognize & Avoid Phishing



- Check the sender
- ✓ Dear Customer
- ✓ Bad spelling and grammar
- ✓ Urgent requests
- ✓ Be careful with website links
- ✓ Be suspicious of attachments
- ✓ Requests for sensitive information
- ✓ Sound too good to be true?

Questions

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Thank You!

