



About me



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Industry contributions

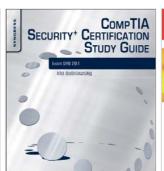


SANS Lethal Forensicator













Cyber security: The threat

- Cyber security is a serious threat to not-for-profit organizations:
 - Theft of sensitive donor and staff information
 - Personal information / Health Records
 - Potential reputation as easier targets
- Small and Medium sized organizations and Not-for-Profits are targets as well





Cyber security: The cyber criminals



Petty criminals / Motives: Financial gain



Hacktivists / Motives: Political support



Organized / Motives: Financial gain



State / Motives: State agenda



Cyber security: The underground economy

■ The price (USD) of stolen data within the

underground economy:



Username / Passwords

\$5.60













- -http://blogs.wsj.com/corporate-intelligence/2015/03/28/whats-more-valuable-a-stolen-twitter-account-or-a-stolen-credit-card/
- -http://blogs.wsj.com/riskandcompliance/2013/06/26/passwords-more-valuable-than-credit-card-data/
- -http://www.tripwire.com/state-of-security/vulnerability-management/how-stolen-target-credit-cards-are-used-on-the-black-market/
- -http://www.foxbusiness.com/technology/2015/01/15/e-bazaar-crooks-hawk-your-info-in-online-black-market/
- -http://www.theregister.co.uk/2015/11/05/hilton_honor_cards_breached/



Cyber security: Impact of a breach

- Impact of a breach:
 - Financial
 - Loss of business operations
 - Brand reputation

60% of small organizations go out of business after a security breach

Source: https://www2.fireeye.com/smb_five_reasons_wp.html





Key risks

1

Corporate infrastructure

Secure your data and infrastructure

- Identify and restrict access to critical data
- Implement security protection
 - Firewall
 - Anti-malware
- Identify and close "front-door" vulnerabilities
- Encrypt mobile devices





Key risks

2

Mobile Applications

Fundraising applications
Donation applications

- Secure development of in-house developed applications
- Many COTS applications are not secure-by-default





Key risks

Social Corporate information
Media Users

- Secure password management
 - Use complex passwords
 - Rotate passwords every 60-90 days
- Monitor social media account activity





Key risks



Cloud

Leverage cloud processing and payment solutions

Manage your 3rd parties

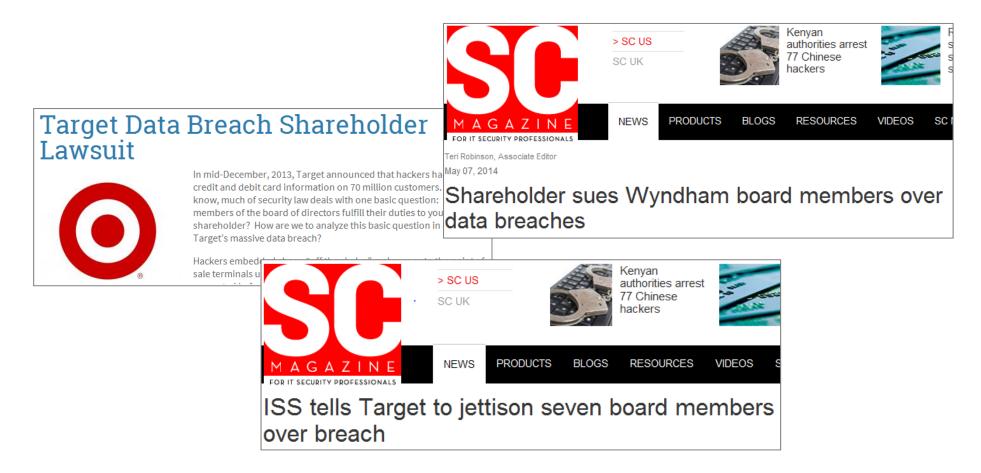
- Solution security
- Security roles and responsibilities
- Notification expectations





Cyber security: Accountability

 Cyber security accountability once with the back office now resides with the board of directors





Cyber security: Getting defensible

Putting yourself in a defensible position:

- 1) Meet regularly to discuss cyber security
- 2) Maintain adequate access to cyber security expertise
- 3) Make the minutes count







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