Complete Technology Solutions

Herb K. Miner III – President and Founder
B.S. Computer Systems Engineering
M.B.A. Management of Technology
Background Experience
• Founded in Colorado in 2009
• Network Operations Center (NOC) in the Denver Tech Center
• Managing network security and endpoints in 9 states
• Managed Security Service Provider (MSSP)
• MSP/Cloud Verify Certification  
  
  
  
• BBB Accredited Business with an A+ Rating
• CompTIA: Network+ and Security+, CCNA, CIPT, Blah Blah Blah
Security Quiz – 1/4

You receive an email from a Nigerian prince who wants to give you $10 million. All you have to do is set up a joint bank account and put $500 in it for the wire transfer fee.

A. “Hey boss, I need to go to the bank over my lunch break.”
B. “I just need to Google this prince’s name to make sure they exist first…”
C. “I’m going to reply and tell them to quit trying to scam me”
D. “Where is the DELETE button”
Correct Answer – “D”
“Where is the DELETE button”
You are surfing the web and get a pop-up on a webpage that you have a virus and Microsoft needs to connect to your PC and fix the problem.

A. “Let me call and get them connected. Thank goodness Microsoft is watching out for me!”
B. “I will just re-load the page a few times to see if it goes away”
C. “I’m calling my nephew because he’s good at Call of Duty”
D. “Close the browser!”
Correct Answer – “D”
“Close the browser!”

MICROSOFT SAID I HAD A VIRUS

I CALLED THEM UP AND PAID THEM TO REMOVE IT, WAS THAT BAD?
Security Quiz – 3/4

Someone from your IT organization calls you saying they need to fix a problem and they just need you to give them your username and password.

A. “I better give it to them because they are all-knowing”
B. “They would not bother me unless it was important”
C. “They can reset my password any time they want so I might was well give it to them”
D. “I should hang up the phone and then call the IT support team”
Correct Answer – “D”
“I should hang up the phone and then call the IT support team”
You find a USB thumb drive on the ground.

A. “Sweet! Free storage for my family photos to Maui!”
B. “I am going to open files on it so I can see who it belongs to.”
C. “My kids can use it for school”
D. “Maybe I should just throw that away…”
Correct Answer – “D”

“Maybe I should just throw that away...”
Why do you care about Cybersecurity?

• FINRA
  – Reviews a firms cybersecurity practices
  – http://www.finra.org/industry/cybersecurity
  – FINRA Small Firm Cybersecurity Checklist

• SEC
  – Cyber Security Guidance

• Colorado DORA
  – Division of Securities – Rules and Regulations
  – Broker/Dealer 51-4.8
  – Advisor 51-4.14(IA)
FINRA, for example

• FINRA
  – Regulation S-P (17 CFR §248.30), which requires firms to adopt written policies and procedures to protect customer information against cyber-attacks and other forms of unauthorized access
  – Regulation S-ID (17 CFR §248.201-202), which outlines a firm's duties regarding the detection, prevention, and mitigation of identity theft

• FINRA Small Firm Cybersecurity Checklist
  – [http://www.finra.org/industry/cybersecurity#checklist](http://www.finra.org/industry/cybersecurity#checklist)
  – identify and assess cybersecurity threats, protect assets from cyber intrusions
  – detect when their systems and assets have been compromised
  – plan for the response when a compromise occurs
  – implement a plan to recover lost, stolen or unavailable assets

Sample of FINRA’s Checklist

Cybersecurity Terms

- **NIST CSF**
  - National Institute of Standards and Technology Cyber Security Framework (~2014)
  - Only 5 functions, 22 categories and 98 subcategories
- **Risk Assessments**
  - Identify and Document Vulnerabilities, Internal and External Threats and Develop a Management Plan
- **System Change Management (ITSM)**
  - Ensure that standardized methods and procedures are used for system changes
- **Pen Testing**
  - The practice of testing a computer system, network or Web application to find vulnerabilities that an attacker could exploit.
- **MSSP (Managed Security Services Provider)**
  - Company that provides outsourced Network Security services
Cyber Threat Terms

- **Social Engineering**
  - Manipulation of people into performing actions or divulging confidential information.

- **Phishing**
  - Emails purporting to be from known entities in order to induce individuals to reveal personal information, such as passwords and credit card numbers.

- **SPAM**
  - We all know what this is…. UCE?

- **Malware**
  - Software intended to damage or disable computers and computer systems.

- **Crypto Currency**
  - Block-Chain Technology (e.g. BitCoin), decentralized, the currency of the dark web.

- **Cyber Extortion**
  - Ransomware (WannaCry, CryptoWall)

- **Dark Web**
  - Web servers that exist on the internet that require special software to access (e.g. Tor Browser), anonymous browsing, haven for illegal activity.
# Dark Web

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Money Back Guarantee

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Cyber Extortion
What do you do?

• Continuous User Education
  – Ever-changing Threat Landscape

• Professional IT Firm (MSSP)
  – Is your cousin’s nephew’s wife’s brother doing your IT?

• Audits (Monthly or Quarterly)
  – Network Scans and Sites Surveys

• Full Assessments (Annually)
  – Security Risk Report
  – Data Breach Liability Report
  – Security Policy Assessment Report
  – Security Management Plan
Layered Prevention

- Web Filtering*
- Email Filtering*
- Anti-Virus/Anti-Malware*
- White Listing
- Network Firewall*
- DNS Filtering
- Backups*
  - Local, Offsite, Cloud
  - Tested for Recovery Capability
- Cyber Insurance

*Managed is Best
Contact Information

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