CFMA – Cybersecurity Education and Awareness

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- Cisco
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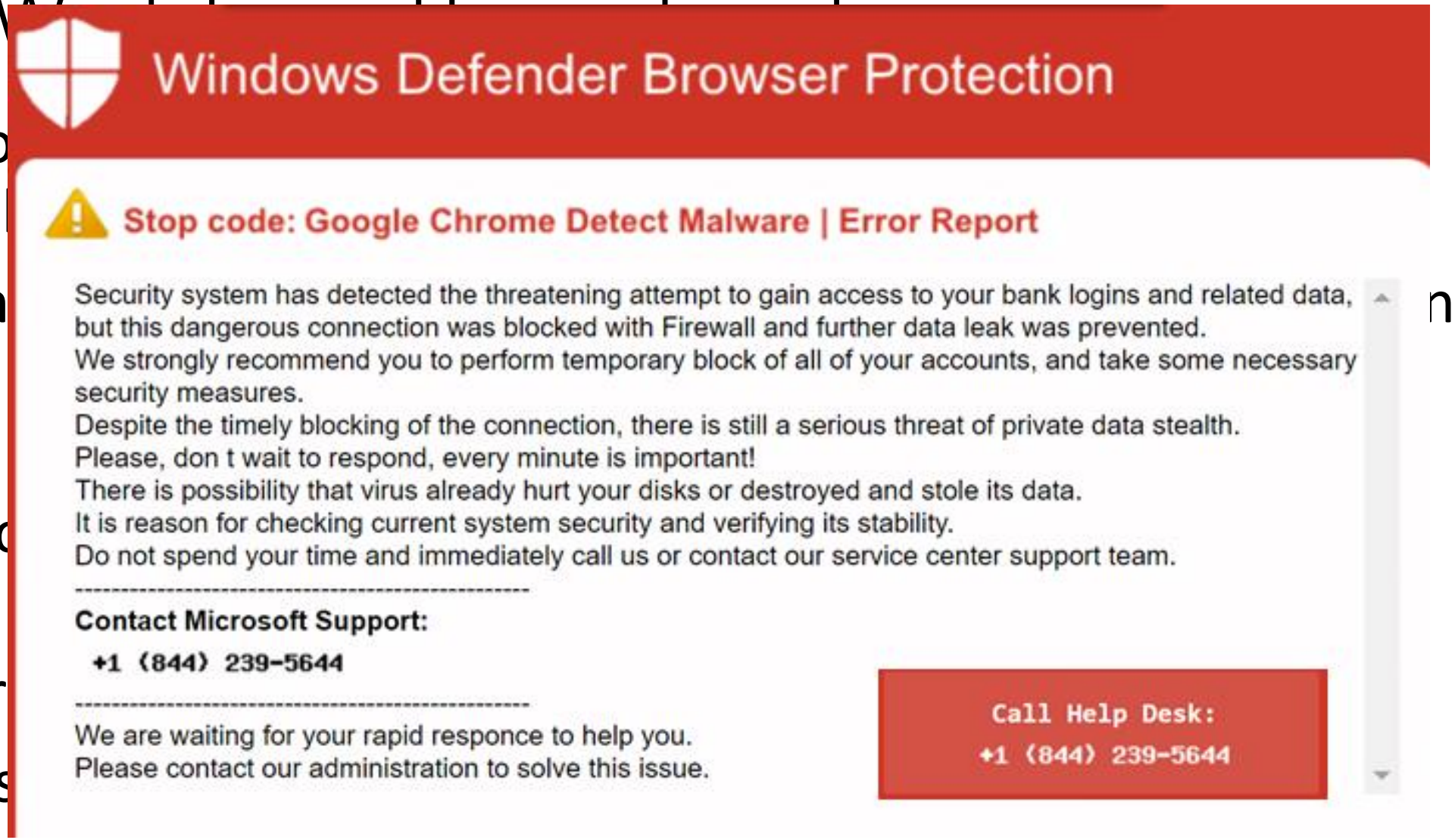

Remote versus Onsite

- Network Protections
  - Ability to scan for dangerous web requests
- Untrusted LAN
  - Bad guy (or software) on same network
- Disconnected from SecOps
  - Detection and response

Pockets of Risk

User Behavior	Device and Media
Remote Network	Accounts and Passwords
Physical	Securing Access

- Authorized data flow
- Use of unapproved technology
- Social engineering attacks due to fluidity of processes

Pockets of Risk

User Behavior	Device and Media
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- Protections for home network
- Assume compromised network

Pockets of Risk

User Behavior	Device and Media
Remote Network	Accounts and Passwords
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- Paper records and notes
- Theft or loss of device or media

Pockets of Risk

User Behavior	Device and Media
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- Encryption
- Firewall
- Updates (patch, AV)
- Personal Devices

Pockets of Risk

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- Passwords
- Multi-factor authentication

Pockets of Risk

User Behavior	Device and Media
Remote Network	Accounts and Passwords
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- Accessing network
- Accessing applications

Top Questions to Ask - Business

1. Do you ensure only ‘trusted’ devices can remotely access network?
2. If there were any rush deployments, have they subsequently been reviewed for cybersecurity concerns?
3. Have devices been properly hardened? Remotely manageable?
4. Has ‘acceptable use’ guidance been provided to users?
5. What about third party or non-employees?
6. In addition to technical and people risk, does this put at risk our process-based cyber protections?
   - Bank transfer procedures (BEC), contract review, account termination, etc.

Top Questions to Ask - Workers

1. Am I following established processes?
2. Am I safely managing paper documents?
3. Is my home network secure?
   - Tippy-top question: Do I utilized a guest network for untrusted devices?
4. Am I utilizing company approved hardware and software?
5. Am I aware of company ‘acceptable use’ policy while working at home?
6. Am I keeping my work stuff separate from my personal stuff?

Cyber Segue

Higher Or Lower: 2019 FBI Cyber Stats

Internet Crime Type	Actual Loss
Identity Theft	$160,305,789
Corporate Data Breach	
Government Impersonation	
Ransomware	
Non-Payment/Non-Delivery	
BEC/EAC	
Tech Support	
Phishing/Vishing/Smishing/Pharming	

Cyber Security Top Risks

- FBI Top Risks
  - BEC, Ransomware, Tech Support Fraud, Extortion
- Education
  - Cloud Security, DoS, Malware, Phishing, Unsecured Personal Devices
- SMB
  - Phishing, Ransomware, Tech Support Scam, Remote Access Trojan
- Healthcare
  - Breach/Data Leak, Ransomware, Insider Threat

Top Cyber Risks for Construction Firms

- Social Engineering
- Ransomware
- Wire Fraud
- Hacking

Wire Fraud Tale

1. Real Estate Agent Email Takeover
2. Builder and Builder's Employee Spoofed
3. Fake Wiring Instructions Sent to Buyers from 'builder'
4. Wire Sent to Fraudsters

Resources

- SANS ‘Top 5 Steps to Securely Working from Home’
  - https://security-awareness.sans.org/sites/default/files/2020-03/02-SSA-WorkingFromHome-FactSheet.pdf
- FTC ‘Online security tips for working from home’
  - https://www.consumer.ftc.gov/blog/2020/03/online-security-tips-working-home

Thank You

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