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an R. L. Nelson & Associates Company

CyberSecurity Webcademy:
Securing Your Environment

Agenda

Introductions

Summary of Session 1: The Basics

Keeping Cybercriminals Out

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Presenters

Justin Krentz – Account Executive in Pennsylvania

Tyler Lewan – Account Executive in Colorado

Summary of Session #1: The Basics

- [x] **Security Assessment**
- [x] **Staff**
- [x] **Spam Email**
- [x] **Passwords**

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Risk #1: Holey Moley You Need to Patch

Ignoring update notifications

- Puts your device and your company's data at risk
- Constant new ways of compromising security
- Operating on legacy platforms

Edgescan Stats Report, 2018

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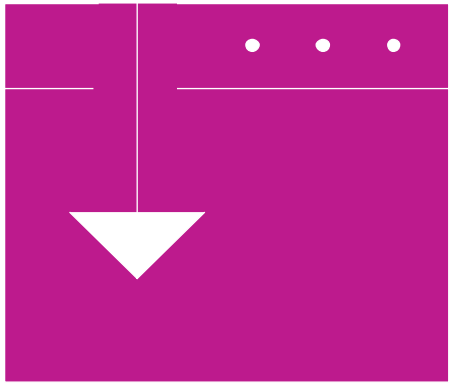
Prevention #1: Computer Updates

Keep Microsoft products updated

- Sooner you update - sooner your more secure
- Look for a “critical update” service



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Advantages #1: **Computer Updates**

- Repairs newly discovered security holds
- Add new features
- Help protect your data

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Risk #2: **Fire in the Hole**

- Threats to personal devices and networks are changing every day
- Traditional firewalls are static
- Left vulnerable by outdated security technology

Source: https://enterprise.verizon.com/resources/reports/dbir/

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Prevention #2: **Next Generation Firewall**

Includes standard firewall capabilities PLUS

- Integrated intrusion prevention
- Application awareness and control
- Threat intelligence sources
- Upgrade paths
- Address evolving security threats

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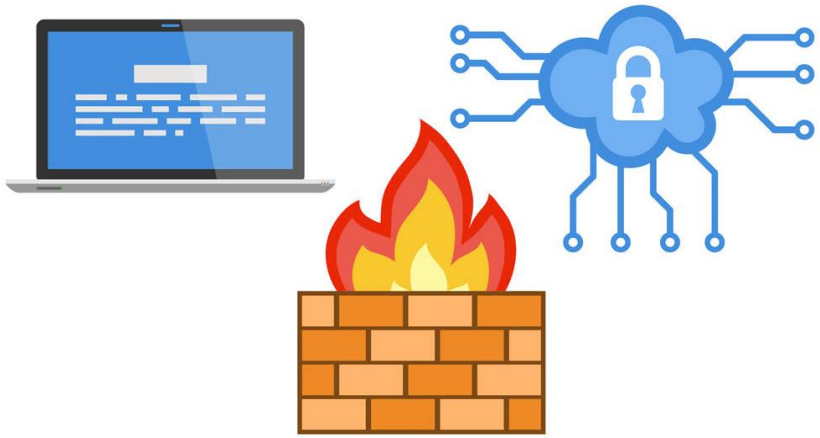
Advantages #2: **Firewalls**

- Can be a low-cost option
- Protects from a broader range of threats
- Automation and product integrations*



* will address this later in session

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Risk #3: “Ghosts” in the Machines”

- More working from home means more laptops
- Sensitive files open to every employee
- Files can easily be stolen
- Can be sued if PII is leaked or shared

Source: varonis.com/2019-data-risk-report

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Prevention #3: **Encryption**

- Encrypt files at rest and in motion
- Cloud encryption keeps sensitive data in a read-only
- Automatic email systems or included in Office 365

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Advantages #3 - **Encryption**

Cybercriminal gets through

- Your firewall
- Your laptop is stolen
- Password guessed

Your data will still be protected

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Risk #4: Who's Knocking at Your Backdoor?

How fast can you detect?

- Layered security means more systems
- Impossible to monitor and analyze all logs
- Many alerts go completely uninvestigated

Sources: ibm.com/security/data-breach

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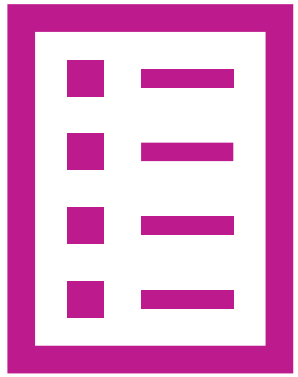
Prevention #4: **Log Management**

- SIEN -uses big data engines to review **all** event and security logs from **all** covered devices
- Looks at network behavior as well as user behavior
- Tracks and investigates what's happened
- Clear picture of potential cybersecurity issues across the entire network



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Advantages #4: **Log Management**

- Detection of unnoticed incidents
- Monitoring and reporting necessary to meet mandates
- More intelligence around malicious activity

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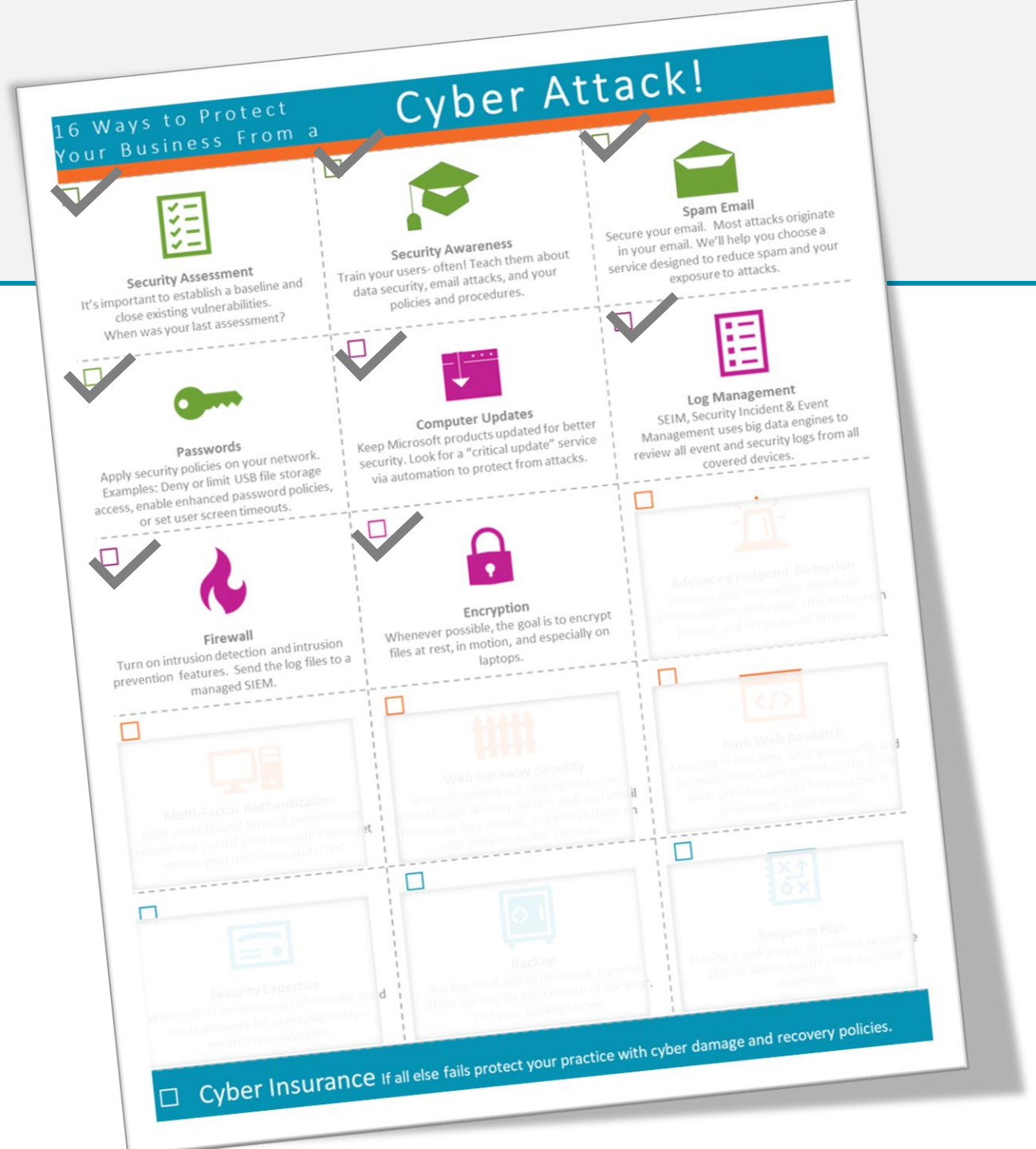
- 9/30 - Making it Harder for CyberCriminals
- 10/ 7 - Being Prepared for an Incident



Thank you!

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