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Polling Question 1 Do you want CPE credit?



### Overview for Today

- Perimeter security
- Vulnerability management
- Backup management and disaster recovery planning
- Application controls
- What next?

















## Impact of Weak Perimeter Security





### How to Strengthen Controls Under Constraints

- Implement conservative configurations
- Update your device regularly
- Enhance intrusion prevention
- Monitor proactively as feasible
  - Evaluate alerting capabilities
  - Involve more staff



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Polling Question 2

# What area of perimeter security do you think could be enhanced at your nonprofit?





### Patch and Anti-Malware Management

- Vulnerabilities arise from outdated or obsolete items
- Malware often allows exploitation of the vulnerabilities
- If it connects to the Internet, patch it!
  - Update firmware, operating systems, and applications
  - Decommission end-of-life devices
- Utilize anti-malware protection on relevant endpoints
  - · Signature based vs. behavioral based











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### Facets of the Backup Process

- Frequency and retention schedules
- Location of backups in relation to source data
  - What disasters are you prone to?
- Encryption
- · Impact of ransomware













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### How to Strengthen Controls

- Establish a robust backup process
  - Monitor backups for success
  - Test the ability to restore from backups
- Perform a business impact analysis
- · Reduce risks to a level within your risk appetite
  - · One size does NOT fit all

# How to Strengthen Controls

- Store data off-site
  - Sufficient distance away
  - Sent off-site at appropriate frequency
- Enable encryption as feasible
- Mitigate risk and impact of ransomware

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### How to Strengthen Controls

- Develop business continuity/disaster recovery plans
  - Include key personnel
  - Document and train staff
- Test plans
  - · Live vs. scheduled
  - Tabletop discussions



### The Need for Application Security



- Brute force attacks are rampant
- We continually use bad password practices
- Database breaches can have an impact on us











### How to Strengthen Controls

- Learn your current settings
- Review industry best practices
  - Traditional settings
  - Evolving recommendations (e.g., NIST, Microsoft)
- Visit <u>capincrouse.com/password-management</u> for a handout and recording of the Password Management and Authentication Security webinar











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| Thanks!   |                 |
|---|-----------------|
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