



Vital Protection Mechanisms

Critical polices, procedures and technical controls that should be implemented.

About the Presenter



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- Vantage Point Solutions
- Background:
 - B.S., Information Security
 - A.S., Criminal Justice
- Specialties:
 - Cyber Security Auditing
 - Staff and Employee Training
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Why is IT Security Important?

- Critical Infrastructure Control
- Protecting Customer Data
- Reputation



The Three Core Principles

- **Confidentiality** - Who can access what assets?
- **Integrity** - Who is authorized to modify?
- **Availability** - What assets are available and when?



What Can I do Today

- CIS top 20 - www.cisecurity.org/controls/cis-controls-list/
- NIST - <https://www.nist.gov/cyberframework>
- FFIEC - <https://www.ffiec.gov/cybersecurity.htm>

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Endpoint Security

Antivirus software on all
user devices

Shared drives scanning
for malicious signatures

Scheduled company-
wide patching process

Monitored Devices




FIREWALLS



INTRUSION
DETECTION/PREVENTION
SYSTEMS



Privilege Access Management

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- User Accounts vs Admin Accounts
 - Access Control Lists
 - Disable Unused Network Ports

Patch Management



Make a regular schedule to apply updates




Ensure patches are applied in a test environment before update is pass globally



Utilize a WSUS Server to automate updates



Vulnerability Assessment

- Annual Assessments (minimum)
 - Useful to help identify vulnerabilities and weakness you may have been unaware of.
 - The reports can assist in minimizing threats and your network's attack surface.
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User Training and Testing

- Train, train and train some more
- Test your employees

Logging Systems

Security Information and Event Management (SIEM)

Maintain a digital record on network resources

Track what changes were made and who modified them

Helpful to identify the source of a breach

Backups

- Foundation of good cybersecurity
- Key factor in protecting asset integrity and availability
- Can be a safety net from ransomware and phishing attacks
- Can save time and money in the event of a disaster



Asset Management



Maintain a list of company-owned devices, software, licenses



Software and Hardware



End-of-Life Management



Create and maintain a Device Management policy



- Incident Response Plan and Team
- Regularly meet and revise as needed
- Practice Tabletop Exercises

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Incident Response




Physical Security

- Ensure all visitors or third-party vendors are accounted for.
- Surveillance systems & alarm systems
- Employee Training





Most Utilized Vulnerability - According to the U.S. Government for 2020

- Microsoft OLE - think sound, video clip integration for documents
 - How do you stop it - PATCHING, disallow certain file types
 - Targeting VPN
 - How do you stop it - PATCHING, Hardening Guidelines and Security
 - Cloud Service Attacks
 - How do you stop it - PATCHING, Hardening Guidelines and Security
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In Conclusion



Understand
your
responsibility

Remember
the Three
Core
Principles

Follow and
use best
practices

Regularly
review your
security
controls



THANK YOU

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