The webcast will start at 1:00 p.m. Eastern

- Visit capincrouse.com/security-controls-1 to access these resources from today's webcast:
  - Handout
  - Recording
- To receive CPE credit, you must respond to the polling questions, which are not available on mobile devices. To receive CPE credit, you must log in on a computer.
- CPE certificates will be emailed to you within the next few weeks.

18 Critical Security Controls – Part 1

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05.24.2023

CAPINTECH

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Polling Question 1

Do you want CPE credit?

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Utilizing a Control Framework

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Why use a framework?

- PCI DSS
- NIST CSF
- CIS Top 18
- ISO 27001
- COBIT
- HIPAA
- FFIEC

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What is the Center for Internet Security (CIS)?

"Making the Connected World a Safer Place"

Source: cisecurity.org

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Why use ***this*** framework?

- Essential cyber hygiene
- Buildable and adaptable
- Identify, protect, detect, respond, and recover
- Prioritize implementation
  - Risk profile
  - Available resources

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Summary of Controls and Safeguards

Source: cisecurity.org/controls/implementation-groups

9

Summary of Controls and Safeguards

Source: cisecurity.org/controls/implementation-groups

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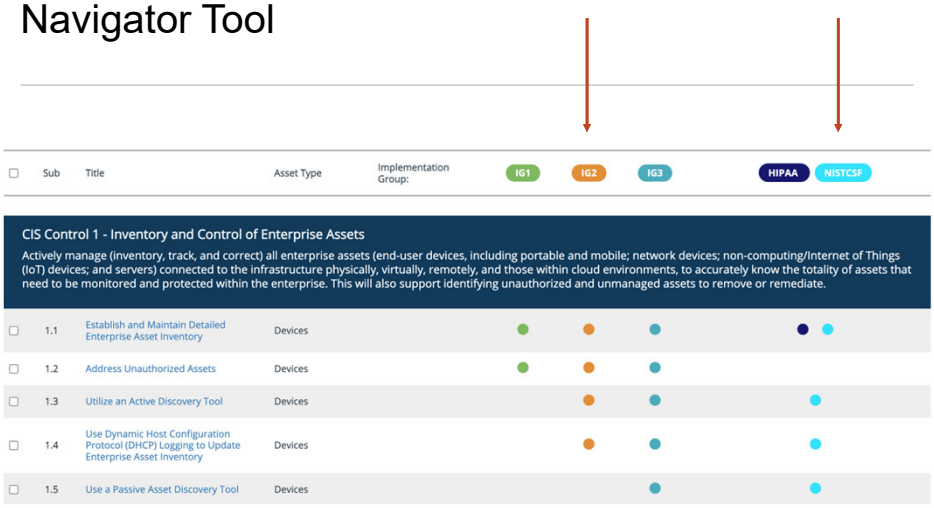
Navigator Tool



Source: cisecurity.org/controls/cis-controls-navigator/

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Polling Question 2

Are you currently using a framework to design your controls?

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What is included in Implementation Group (IG) 1?

- Minimum standards for all enterprises
- Foundational set of 56 safeguards
- Necessary to defend against common attacks

Which organizations will benefit from IG1?

- Limited IT and security expertise
- Limited tolerance for downtime
- Sensitivity of data being protected is low
- Thwarting general, non-targeted attacks
- Using commercial, off-the-shelf hardware and software
- Organizations working toward IG2/IG3

Controls We Will Skip Today

None of these controls are in IG1.

Source: cisecurity.org/controls/implementation-groups

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Cisco: A Breach to Learn From

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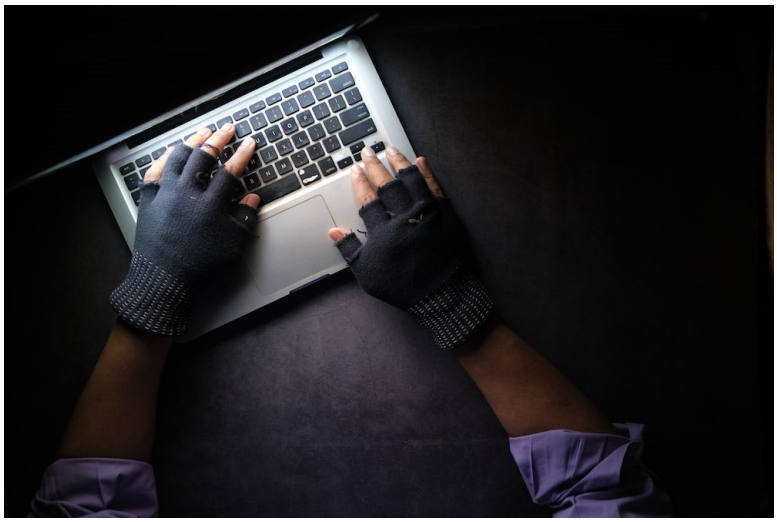
Step 1: Stolen Credentials



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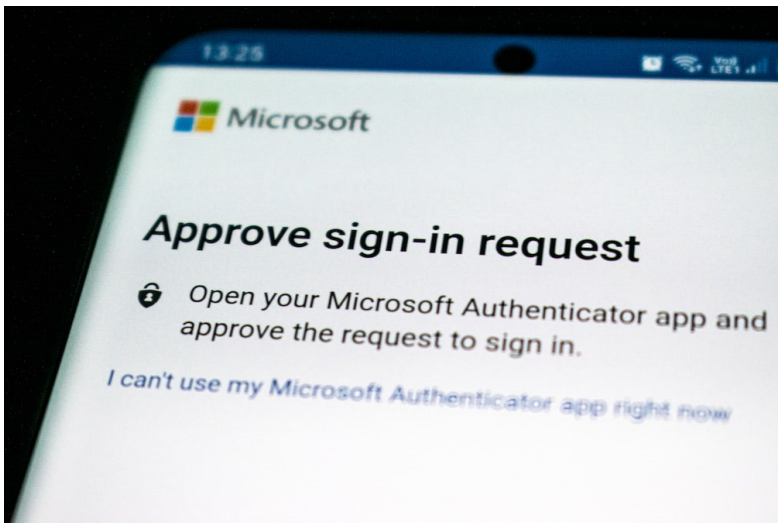
Step 2: Gaining MFA Approval to VPN



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Step 3: Persistence and Movement

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Review of Controls

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1. Inventory and Control of Enterprise Assets

- Establish and maintain detailed enterprise asset inventory
- Address unauthorized assets

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2. Inventory and Control of Software Assets

- Establish and maintain a software inventory
- Ensure authorized software is currently supported
- Address unauthorized software

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3. Data Protection

- Establish and maintain a data management process
- Establish and maintain a data inventory
- Configure data access control lists
- Enforce data retention
- Securely dispose of data
- Encrypt data on end-user devices

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4. Secure Configuration of Enterprise Assets and Software

- Establish and maintain a secure configuration process
- Establish and maintain a secure configuration process for network infrastructure
- Configure automatic session locking on enterprise assets
- Implement and manage a firewall on servers

24

4. Secure Configuration of Enterprise Assets and Software

- Implement and manage a firewall on end-user devices
- Securely manage enterprise assets and software
- Manage default accounts on enterprise assets and software

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5. Account Management

- Establish and maintain an inventory of accounts
- Use unique passwords
- Disable dormant accounts
- Restrict administrator privileges to dedicated administrator accounts

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6. Access Control Management

- Establish an access granting process
- Establish an access revoking process
- Require MFA for externally exposed applications
- Require MFA for remote network access
- Require MFA for administrative access

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Polling Question 3

What kind of multi-factor authentication (MFA) are you using on your systems?

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7. Continuous Vulnerability Management

- Establish and maintain a vulnerability management process
- Establish and maintain a remediation process
- Perform automated operating system patch management
- Perform automated application patch management

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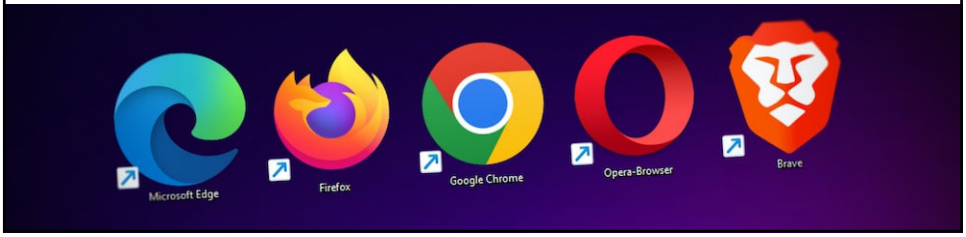
8. Audit Log Management

- Establish and maintain an audit log management process
- Collect audit logs
- Ensure adequate audit log storage

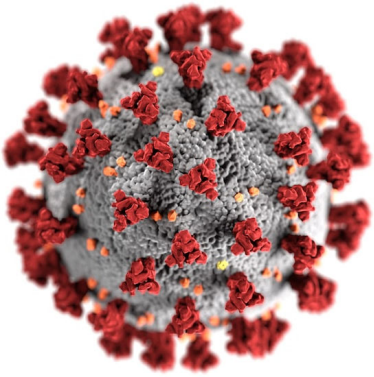
30

9. Email and Web Browser Protections

- Ensure use of only fully supported browsers and email clients
- Use DNS filtering services



10. Malware Defenses



- Deploy and maintain anti-malware software
- Configure automatic anti-malware signature updates
- Disable autorun and autoplay for removable media

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11. Data Recovery

- Establish and maintain a data recovery process
- Perform automated backups
- Protect recovery data
- Establish and maintain an isolated instance of recovery data

33

12. Network Infrastructure Management

- Ensure network infrastructure is up to date

34

Polling Question 4

Based on what you've heard so far, are you interested in using the CIS Top 18 control framework?

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14. Security Awareness and Skills Training

- Establish and maintain a security awareness program
- Train workforce members on:
  - Recognizing social engineering attacks
  - Authentication best practices
  - Data handling best practices

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14. Security Awareness and Skills Training

- Train workforce members on:
  - Causes of unintentional data exposure
  - Recognizing and reporting security incidents
  - How to identify and report if their enterprise assets are missing security updates
  - The dangers of connecting to and transmitting enterprise data over insecure networks

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15. Service Provider Management

- Establish and maintain an inventory of service providers

17. Incident Response Management

- Designate personnel to manage incident handling
- Establish and maintain contact information for reporting security incidents
- Establish and maintain an enterprise process for reporting incidents

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18 Critical Security Controls – Part 2

Wednesday, August 30
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Questions?

Thanks!

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