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Give your Credit Union Direction with the Compass of Critical Security Controls

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"Give Your Credit Union Direction with the Compass of Critical Security Controls Webinar" discussed in this presentation is the current version with effective date of 5/30/2024.

The comments today are my own and not necessarily those of Vizo Financial or the Vizo Financial membership.

Who Am I

VP, Information Security for Vizo Financial

- With the Corporate for 22 years
- Working in Information Technology and Information Security
  - 9 years in Information Technology
  - 13 of those years Information Security
  - GIAC Certified Incident Handler
  - GIAC Security Leadership Certification
  - CompTIA Advanced Security Practitioner

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Today's Agenda

Security Frameworks

- What is a security framework?
- Why do we need a framework?
- How does it fit into your program?
- Examples of Frameworks

CIS Critical Security Controls

- Brief overview
- Key Controls to focus on

Questions

What is a security framework?

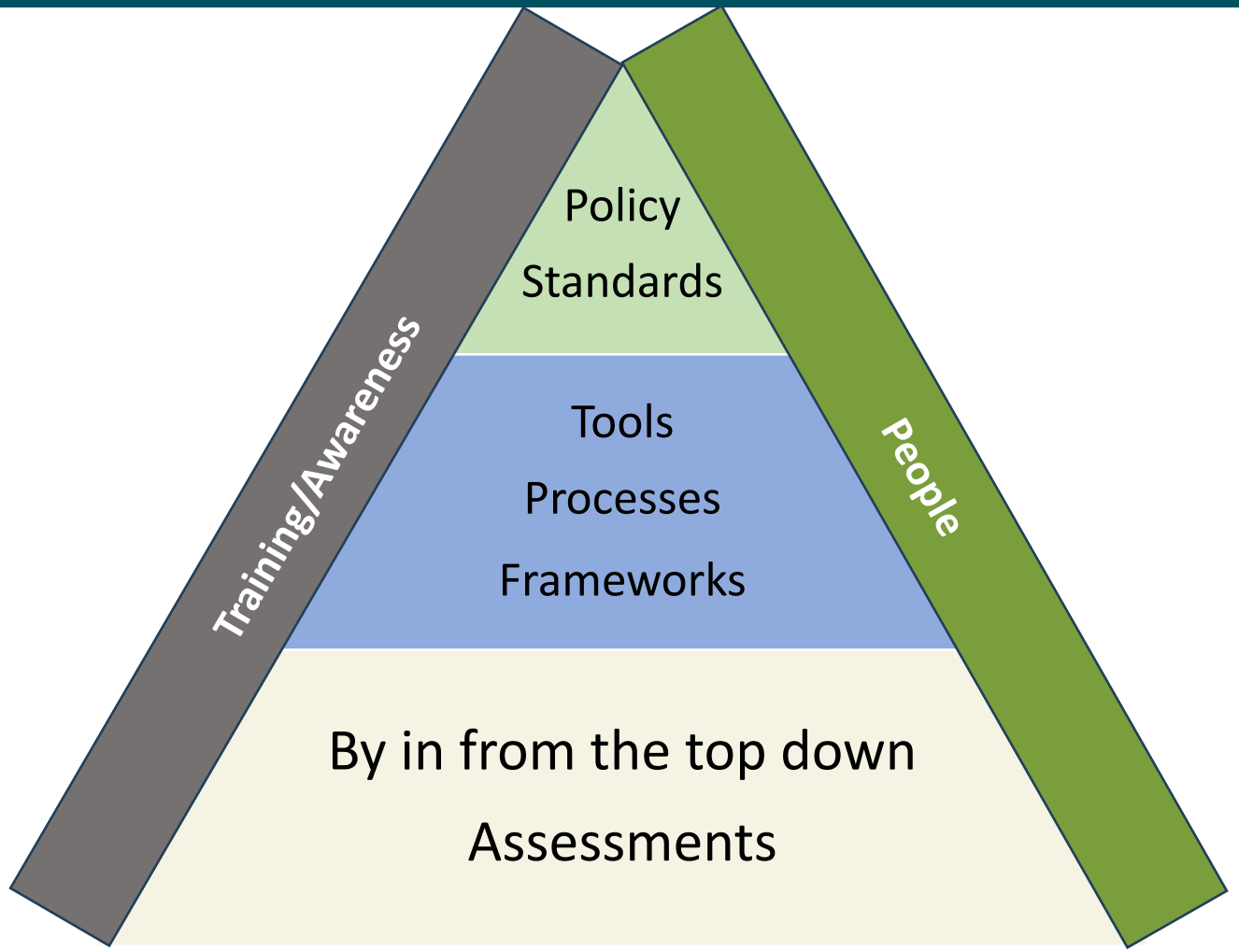
- Frameworks are not…..
  - Required by compliance or regulations
  - Set it and forget it
  - Your entire program
- A security framework is…
  - Guidelines and best practices
  - Designed to help organizations
  - Goal to lower cyber risks

Why do I need a framework?

- Core Tenants of Information Security
  - Confidentiality
  - Availability
  - Integrity

- Core Components of Information Security
  - Assessments
    - Threat
    - Controls
  - Policy & Standards
  - Education
  - Oversight & Reporting

How does a security framework fit into a program?



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Examples of Frameworks

- NIST Cyber Security Framework (CSF)
  - v2.0
- ISO 27001 & 27002
  - International Organization for Standardization
- CIS Critical Security Controls
  - Center for Internet Security

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CIS CSC

- Center for Internet Security
  - Volunteer Community
    - Information Sharing
    - Create Tools
    - Map Controls to other frameworks
    - Identify and Solve Problems
- Critical Security Controls
  - Best Practices and Recommendations
  - Used by Verizon
  - Top 20 (Now 18)

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CIS CSC

- 18 Controls Identified in v8
  - Brief Overview
  - Why
  - Technical Overview
  - Subset of Controls
- Subset are identified
  - 3 Categories
  - Mapped to CSF Function

CIS CSC

- Subset Categories
  - IG1
    - Small to Medium
    - Limited Resources
    - Essentials
  - IG2 (Includes IG1)
    - IT\Security Staff
    - Regulatory Requirements
    - Sensitive Data
  - IG3 (Includes IG1 and IG2)
    - Diverse Security Expertise

CIS CSC

- Critical Security Controls
  - CSC #1 – Inventory and Control of Enterprise Assets
    - Find and track all assets
    - Physically, virtual, remote, and cloud-based assets
    - Address unauthorized assets
  - CSC #2 – Inventory and Control of Software Assets
    - All software
    - Operating Systems
    - Address unauthorized software

Center for Internet Security (CIS) – Critical Security Controls (CSC) v8

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CIS CSC

- Critical Security Controls
  - CSC #3 – Data Protection
    - Identify and Classify
    - Retain and Dispose
    - Encrypt end to end
  - CSC #4 – Secure Configuration of Enterprise Assets and Software
    - Hardening standards
    - Maintain and update
    - Implement and manage firewalls

Center for Internet Security (CIS) – Critical Security Controls (CSC) v8

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CIS CSC

- Critical Security Controls
  - CSC #5 – Account Management
    - User, Admin, Service accounts
    - Unique Credentials
    - Separate Admin accounts
  - CSC #6 – Access Control Management
    - Request for access
    - Request for removal of access
    - MFA (External, Remote Network, Administrative)

Center for Internet Security (CIS) – Critical Security Controls (CSC) v8

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CIS CSC

- Critical Security Controls
  - CSC #7 – Continuous Vulnerability Management
    - Works with asset inventory
    - Hardware and Software
    - Patching Program
  - CSC #8 – Audit Log Management
    - Establish a Standard
    - Collect Logs
    - Retain Logs

Center for Internet Security (CIS) – Critical Security Controls (CSC) v8

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CIS CSC

- Critical Security Controls
  - CSC #9 – Email and Web Browser Protections
    - Up-to-Date and Supported
    - DNS Filtering
  - CSC #10 – Malware Defenses
    - Deploy Anti-Malware Software
    - Configure Auto-updates
    - Disable Autorun and Autoplay

Center for Internet Security (CIS) – Critical Security Controls (CSC) v8

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CIS CSC

- Critical Security Controls
  - CSC #11 – Data Recovery
    - Process in place to recovery
    - Perform Automatically
    - Protect and Isolate
  - CSC #12 – Network Infrastructure Management
    - Up-to-date
    - Network Diagrams

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CIS CSC

- Critical Security Controls
  - CSC #13 – Network Monitoring and Defense
    - SIEM
    - IPS/IDS
    - Manage Remote Connections
  - CSC #14 – Security Awareness and Skills Training
    - Security Awareness Program
    - Social Engineering/Authentication/Data Handling
    - Incidents and Reporting

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CIS CSC

- Critical Security Controls
  - CSC #15 – Service Provider Management
    - Establish and maintain an inventory
    - Policy
    - Monitor and Classify
  - CSC #16 – Application Software Security
    - Development Lifecycle
    - Vulnerability Process
    - Training

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CIS CSC

- Critical Security Controls
  - CSC #17 – Incident Response Management
    - Designate Personnel
    - Contact List
    - Reporting Process
  - CSC #18 – Penetration Testing
    - Establish a standard
    - External pen tests
    - Process to remediate

Center for Internet Security (CIS) – Critical Security Controls (CSC) v8

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Verizon Data Breach List

- Critical Security Controls
  - Secure Configuration of Enterprise Assets and Software (CSC #4)
  - Email and Browser Protection (CSC #9)
  - Malware Defenses (CSC #10)
  - Continuous Vulnerability Management (CSC #7)
  - Data Recovery (CSC #11)
  - Account Management (CSC #5)
  - Access Control Management (CSC #6)
  - Security Awareness and Skills Training (CSC #14)

Verizon 2023 Data Breach Investigations Report - DBIR

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Questions