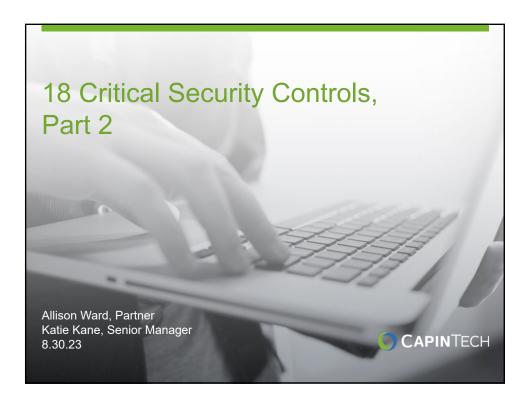
The webcast will start at 1:00 p.m. Eastern

- Visit <u>capincrouse.com/security-controls-2</u> 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.



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Polling Question 1

Do you want CPE credit?



Quick Recap of Part 1



What is the CIS and why use its framework?

"Making the Connected World a Safer Place"

Source: cisecurity.org

;

Tell me about Implementation Group (IG) 1.

- Minimum standards
 - 56 foundational safeguards
- Limited IT and security expertise
- Limited tolerance for downtime
- Sensitivity of data is low
- General, non-targeted attacks



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Moving on up to IG2 (+74 safeguards).

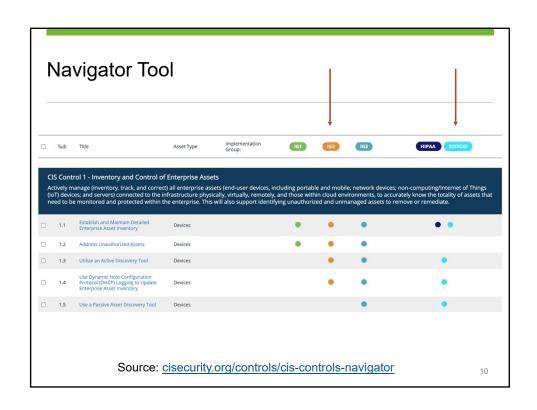
- Help security teams cope with increased complexity
- Store and process sensitive client or enterprise data
- Loss of public confidence expected with a breach

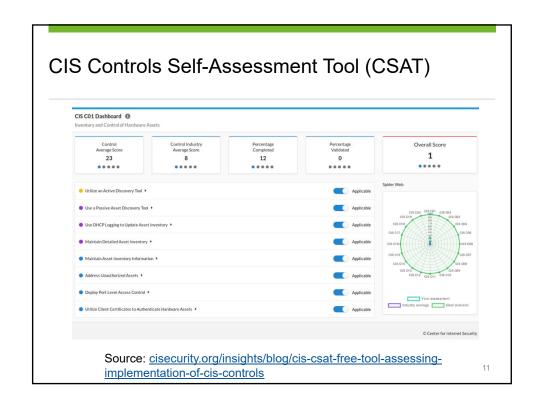


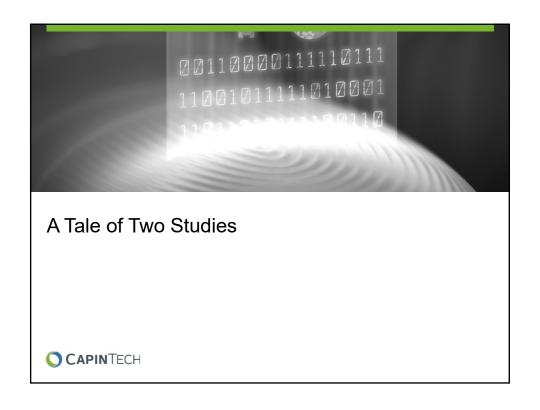
And then there was IG3 (+23 safeguards).

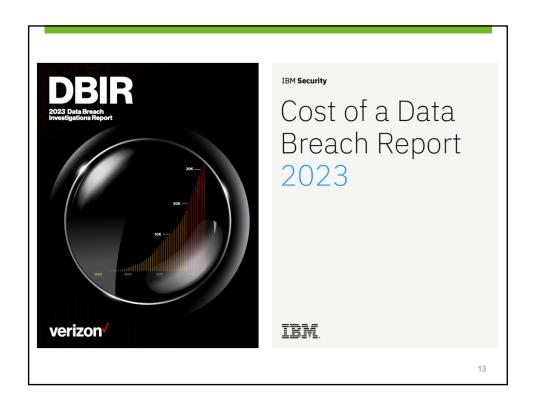
- Requires expert support
- Subject to regulatory and compliance oversight
- Concerned with availability, confidentiality, and integrity
- Attack could cause significant harm to public
- Goal is to thwart complex attacks

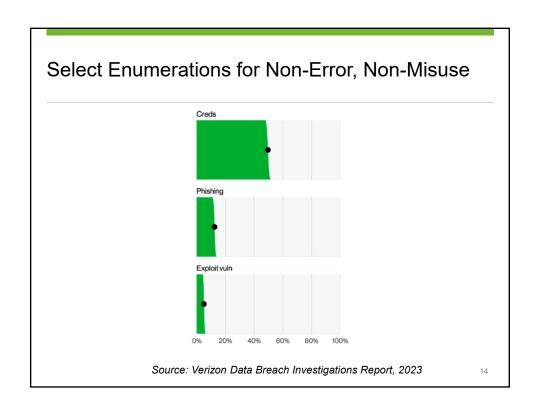


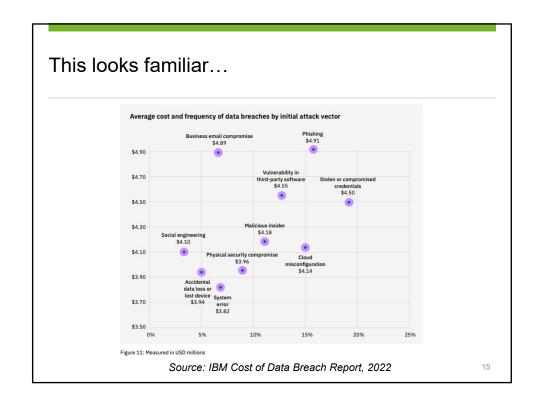


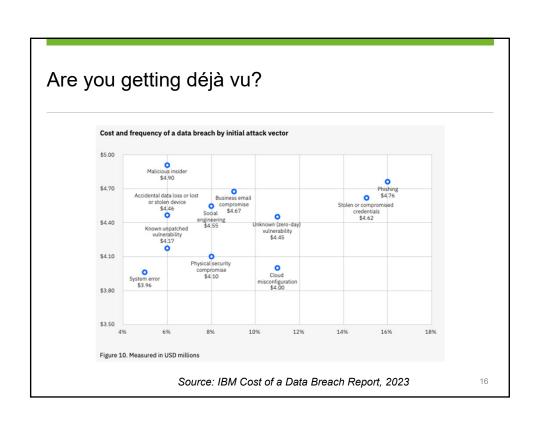


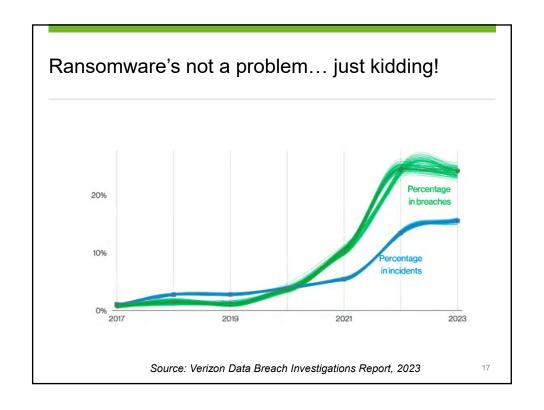


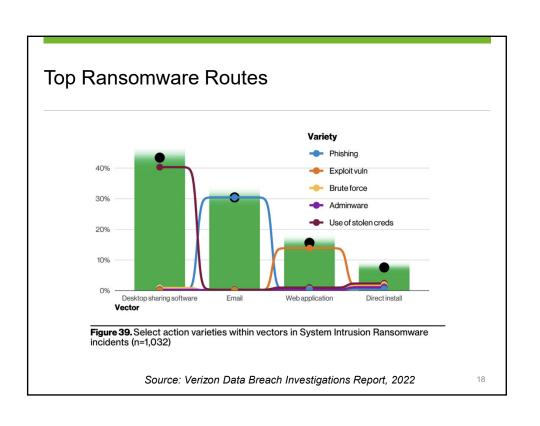


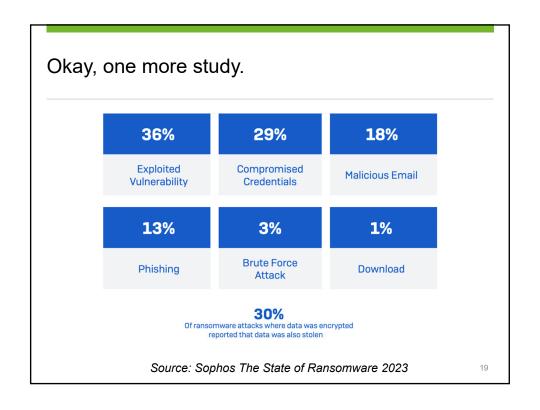


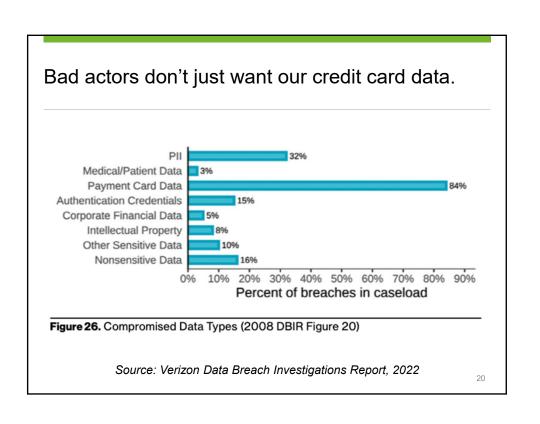


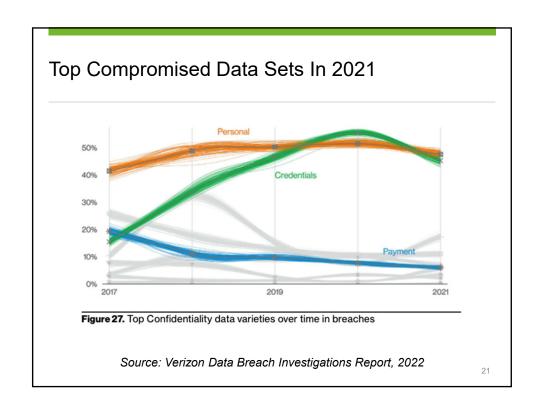


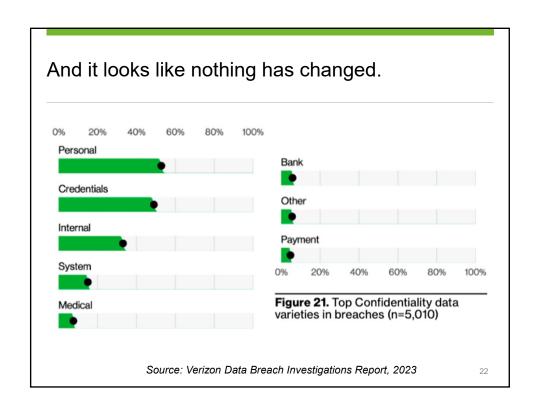


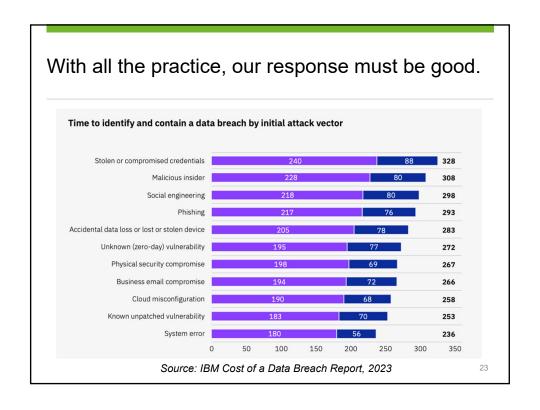


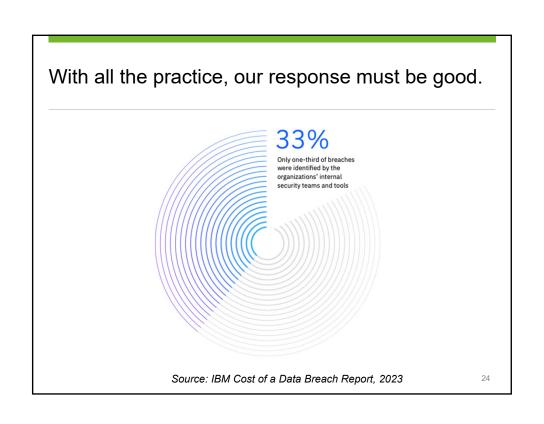












What decreased the cost and impact of a breach?

- · Usage of automation and artificial intelligence
 - \$1.76 million cost savings
 - Identification and containment 108 days faster
- Incident response teams and testing
 - \$1.49 million cost savings
 - Identification and containment 54 days faster

Source: IBM Cost of Data Breach Report, 2023

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Other Factors that Decrease the Cost

- Employee training
- Encryption
- Centralized reporting
- Threat hunting
- Identity and access management (IAM)

- Endpoint detection and response
- Data security and protection software
- Board-level oversight and appointed CISO

Source: IBM Cost of Data Breach Report, 2023

Polling Question 2

What area concerns you most about your control framework?

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Asset Control



Hardware Management

- Maintain a network diagram
- Utilize active and passive discovery tools
- Uninstall and disable unnecessary services

Control Mobile Devices

- Lockout configurations
- Remote wipe capabilities
- Containerization



Software Management

- Utilize automated software inventory tools
- Implement software allow lists
- · Implement web filtering



Data Management



- Classify data
- Document flow
- Encrypt in transit and at rest
- Deploy data loss prevention



Authentication and Access



Authentication and Access

- Inventory service accounts
- Centralize
- Utilize role-based access



Traditional Management or IAM: What to Do?



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Polling Question 3

Are you using an identity access management (IAM) solution?

Network Infrastructure

- Consider segmentation and least privilege
- Implement secure remote authentication

3

What is zero trust architecture?

"Never trust. Always verify."

- John Kindervag, then at Forrester Research



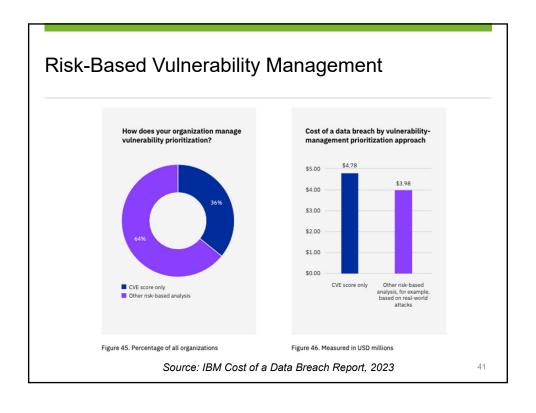
Vulnerability Management and Response



Continuous Vulnerability Management

- Automate scanning of internal and external assets
- Perform penetration testing
- Remedy identified issues



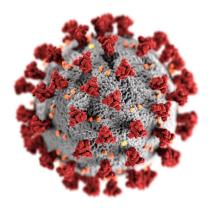


Risk-Based Vulnerability Management

- Prioritize risks by patch type, system, and endpoint
- · Help security teams triage
- Allows more proactive management vs. reactive

Malware Defenses

- · Auto-scan removable media
- Centralize management
- Use behavior-based
 - Next generation anti-virus ("NGAV")
- · Application allow listing



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Network Monitoring and Defense

- Centralize alerting
- Deploy intrusion detection and prevention systems
 - Host-based
 - Network
- · Monitor internal traffic



Enhance Web and Email Controls

- Blocking unnecessary file types
- Scanning attachments for viruses
- Sandboxing
- Web filtering



Alphabet Soup: Detection/Response Solutions

- Same 'why'
 - Detection and response
- · Similar 'how'
 - Behavioral analysis, machine learning, Al
 - Human element required to be fully effective
- · Difference in the 'what'



Audit Log Management



- Collect
- Centralize
- Review

47

Incident Response

- Establish a process
 - Define incident vs. event
 - Key roles and responsibilities
 - Communication
 - Post-incident reviews



Practice makes perfect better.

- Conduct exercises
- · Test your backups!



40

Polling Question 4

Based on what you've heard in this webcast and Part 1, are you interested in using the CIS Top 18 controls framework?



Other



Security Awareness and Skills Training

Train based on role and skill needs

Note: 8 of the 9 controls in the Security Awareness and Skills Training section are considered baseline.

Employee awareness is an essential protection.



Service Provider Management

- · Formalize a policy
- · Classify vendors
- Hold them responsible by contract
- · Assess and monitor
- · Decommission securely



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