

Cybersecurity Risks & Trends
 Preparedness and Controls
 September 2023

WEALTH ADVISORY | OUTSOURCING | AUDIT, TAX, AND CONSULTING
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Learning Objectives

- Identify the importance of supply chain and Vendor Risk Management
- Review Trends and Cases affecting governments
- Describe data management strategies
- Explain ransomware, data exfiltration, and other attacks
- Discuss legal and business ramifications of a data breach

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What Do We Know?

- It is reported in several articles, as well as published studies, that as much as 70% of ALL ransomware attacks in the United States target state and local governments.
- Most studies put government agencies as a top 2 or 3 target of cyberattacks, and one of the largest growing sectors of breaches and attacks.
- Of attacks on governments, 69% or more are reported to be a result of social engineering and phishing (consistent with ic3.org stats). GCN, Verizon, Gartner, and more publish studies consistent with these statistics.
- Cybercrime is increasing at an alarming rate. Many studies report different metrics and rates of growth. Almost all are consistent in showing significant growth. One we researched reported as much as 600% growth during the pandemic. (most within a 20%-80% range)

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Cybersecurity – What we’ve learned

- As organizations continued to digitize and connect, they created an ecosystem that requires a security architecture and processes.
- Management needs to be aware of its supply chain and vendors (Vendor Risk Management). A proactive Vendor Risk Management strategy is critical to minimizing the disruption of a companies supply chain.
- A robust Data Management Resiliency Strategy is a key imperative – Know your “Crown Jewels”, where they reside and review the design and architecture of your cyber security framework.
- Continue to educate and inform your board of directors and senior executives. They will be an important advocate in funding your cybersecurity strategy.
- Awareness of employee home network and device risks must be considered in the strategies.

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A recent 2022 research on the Cost of a Data Breach conducted by Ponemon Institute and sponsored and published IBM Security noted:

By the numbers:

- \$8.64m – Average cost of a data breach in the United States
- 80% - Share of breaches that included records containing Customer Personally Identifiable Information (PII), at an average cost of \$150 per record
- \$2.64m – Average global total cost of a breach for organizations under 500 employees; \$5.52m at enterprises over 25K employees

Separately:

- Reported costs to the cities of Atlanta and Baltimore individually are as much as \$5-9 million due to recovering and dealing with prior ransomware events.

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Preparedness and Risk Assessment

What can organizations do to prepare themselves for a potential cyber attack?

- What standards will we follow? NIST, ISO, CMMC
- Is there an IT Risk Assessment and Threat/Vulnerability Analysis?
- Incident Response Plan??
- Action Plans to Harden and Implement Controls/Tools
- Training and Communication



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Awareness

What is the importance of user education and testing?

- We are conducting this awareness through this session.
- Remember stats? 70% through phishing – that’s us!
- Phishing, testing, and awareness are critical. We all are the front line – and stats show we are failing.



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Simple Fixes???

Are we willing to take additional steps as an organization?

- No local administrator rights
- Personal email and web filtering restrictions
- Privileged user account separations/logging
- Restrict USB drives
- Prevent zip file attachments

IT can implement quickly and for little cost. Are we willing to adjust and adapt?



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Incident Response Preparedness

- Unfortunately, data breach can still occur despite implementing all the best security precautions
- When that occurs, organizations need to ensure they are ready to respond to a data breach.

Have a plan, practice the plan, prove the plan

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Have a Plan

- Develop an incident response plan
 - Include the appropriate procedures
 - Ensure points of contact are included
 - Keep the plan update to date
- Establish relationships with key incident responders
 - Breach Counsel
 - Forensic provider
 - Public relations

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Incident Response Preparedness- Cost Savings

Impact of 25 key factors on the average total cost of a data breach
Change in US\$ from average total cost of \$3.86 million

Factor	Change in US\$	Category
Incident response time	\$212,247	Cost mitigating factors
Incident response plan	\$212,047	Cost mitigating factors
Incident response team	\$212,012	Cost mitigating factors
Incident response training	\$194,138	Cost mitigating factors
External investigations	\$174,138	Cost mitigating factors
Security analytics	\$174,132	Cost mitigating factors
Third party sharing	\$174,131	Cost amplifying factors
Board involvement	\$174,127	Cost mitigating factors
GDPR compliance	\$174,121	Cost mitigating factors
Incident log	\$174,118	Cost mitigating factors
Vulnerability scanning	\$174,117	Cost mitigating factors
Data loss prevention	\$174,116	Cost mitigating factors
CSO appointment	\$174,115	Cost mitigating factors
Managed security services	\$174,114	Cost mitigating factors
24/7 operations	\$174,113	Cost mitigating factors
Removal of sensitive data	\$174,112	Cost mitigating factors
Limit of critical breaches	\$174,111	Cost mitigating factors
GDPR impacted	\$174,110	Cost amplifying factors
Third party breach	\$174,109	Cost amplifying factors
Compliance failures	\$174,108	Cost amplifying factors
Security video coverage	\$174,107	Cost amplifying factors
Cloud migration	\$174,106	Cost amplifying factors
Complex security systems	\$174,105	Cost amplifying factors

Source: IBM Security Cost of a Data Breach Report 2021
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Questions

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Thank you!

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