CYBER SECURITY & RANSOMWARE ATTACKS

John R. Reidy



Consider -



Is your fund

at risk for a cyber attack?

able to pay a ransom?



Does your fund have

a Cyber Security Plan?

Business Continuity Management?

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HUMEN THE PRINCE TRANSP

Recent Breach

Exploited vulnerabilities in the application used to securely transfer encrypted files

Public pension system in at least 10 states impacted

Multiple record keepers affected

Many impacted through a prominent service provider



Recent Breach

- DOL made it clear it is the plan sponsor's fiduciary duty to assess its service provider
- Expectations of plan sponsors and vendors spelled out in guidance
 - What questions were asked of service providers?
 - What process was used to hire them?
 - Was the cybersecurity posture evaluated as part of the hiring process?



In this session, we will:

- Review DOL's Cybersecurity Guidelines
- Detail reports pension funds should request from their vendors.
- Discuss specific internal controls to protect membership data and assets.
- Identify Common Points of Vulnerability



DOL Guidance



Cybersecurity Program Best Practices



Hiring a Service Provider



Online Security Tips



Best Practices

Formal Cybersecurity Plan

Annual Risk Assessments

Audit Security Controls

Define Security Roles/Responsibilities

Strong Access Controls

Audit Cloud Hosting

Periodic Cybersecurity Training

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Best Practices (cont'd)

Implement Secure Systems

Development Life Cycle (SLDC)

Business Continuity Management Plan

Encrypt Sensitive Data — Stored/ Transit

Implement Strong Technical Controls

Incident Response Plan





Service Providers

When Hiring:

- 1. Request detailed information
- 2. Assess how they validate security practices
- 3. Evaluate Track Record
- 4. Review insurance policies
- 5. How will/did provider respond from incident?

Service Providers Contracts

Contracts should include:

- i. Regular Security Reporting
- ii.Provisions pertaining to information sharing
- iii.Notification of Cyber Breaches
- iv.Record Retention compliance
- v.Insurance coverage

Security Validations

- SOC Reports (Bridge Letters)
 - SOC 1 is for financial reporting
 - SOC 2 is for security framework (organizational & operational)
- Penetration Testing Reports
- Web Application Firewall Grading Reports
- Disaster Recovery Test Reports (RPO & RTO times)
- Vulnerability Scans (Daily)



Online Security Tips

Monitor Your
Online
Account

Strong Passwords

Multifactor Authentication

Updated
Personal
Contact Info

Close/Delete
Unused
Accounts

Be Wary of Free Wi-Fi



Online Security Tips

Beware of Phishing Attacks

Use Antivirus Software

Keep Applications Current

Know How to Report Incidents

FBI/
Homeland
Security Sites



Methods of Attack

- Malware
- Phishing
- Vishing
- Ransomware
- Social Engineering



Ransomware Is Spiking

- Working Remotely has caused large spikes
- In the last 2 quarters of 2022, there were 155 million cases world-wide
- 381 attacks against US organizations in 2022; average ransom demand of \$4.15M
- 43% of all global attacks were in United States
- Attacks have become very sophisticated
- Many organizations are attacked more than once



To Pay or Not to Pay

How sensitive is the information?

Do you have back-ups of critical data?

What are your RPO and RTO times?

What is cost of refusing to comply?

Legal issues associated with attack

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Social Engineering



Email



Phone



Indirect Contact



Cyber Liability
Insurance
might not cover



What Can You Do?

- Develop a Cyber Security Plan
- Use Multi Factor Authentication
- Encrypt Data and Passwords
- Remote Back-up
- Train and Test Staff
- Board Meeting Minutes don't disclose to much
- Verify Not Trust
- Test Your Systems
- Cyber Insurance Policy



Session Recap:



DOL Guidelines are a good path to follow



Review your pension funds vulnerable points



| Request proper documentation from vendors



Adopt proper policies and procedures to protect your fund

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Questions?

