Ransomware: What You Need to Know

Hello!

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"Every 14 seconds, a new organization gets hit by ransomware."

"Statistics on ransomware have shown that 44 percent of education institutions were hit by ransomware in 2021…"

https://www.cloudwards.net/ransomware-statistics/

Background

- "Something's not right" June 17, 2021 6:36 a.m.
- Shut down network to assess the situation
- Contacted MS-ISAC, FBI and Cabinet
- Team continued to assess environment and potential damage
- Contacted MUSIC to invoke cybersecurity policy
- Forensic investigation and recovery began

Communicating

Day 1

Emergency communication to key groups

Review sample communications plans & adjust if needed

Address media inquiries

Day 2 & beyond

Implement formal communications plan

Liaison between media, parents, employees and technology

Work with legal team

Monitor community feeling

Understanding Cyber Insurance

- **Claim submission process**
- **Coverage and requirements**
- **Attorney and forensic firms**

MUSIC and AXA XL

Attorney & Forensic Team Roles

- **Liaison & advisor**
- **Investigation of incident**
- **Negotiation with Threat Actor**
- **Selection of ID monitoring firm**
- **Breach notifications**
- **Miscellaneous**

Service Continuity

Dependent upon variety of factors

- ⬡ **Severity of incident**
- ⬡ **On-premise vs cloud systems**
- ⬡ **Backup health**

Recovery vs Remediation

- **Recovery gets you back to where you were right before the incident**

- **Remediation improves your cybersecurity posture**

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Lessons Learned

- Effective communication is critical
- Response planning and tabletop exercises with a variety of stakeholders is a must
- Established relationships saved time/effort
- Some positive things will come from this
- Worse things can happen

Does your district have...

- Discussions about cybersecurity?
- Personnel with skills and tools to effectively manage cybersecurity?
- Policies and procedures in place?
- Culture of cybersecurity?

FREE Resources

- **Cybersecurity & Infrastructure Security Agency (CISA) and MS-ISAC**
  - **Cyber Hygiene service**
  - **SOC and investigation support**
- **FBI & Secret Service**
- **Missouri Dept of Homeland Security**
- **CoSN**

Thanks!

Questions?

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Credits

Special thanks to all the people who made and released these resources for free:

- Ransomware Statistics https://www.cloudwards.net/ransomware-statistics/
- CISA Shields Up https://www.cisa.gov/shields-up
- K-12 Six 2022 Annual Cybersecurity Report
- https://www.k12six.org/the-report
- Cosn **https://www.cosn.org/edtech-topics/cybersecurity/**
- Presentation template by SlidesCarnival