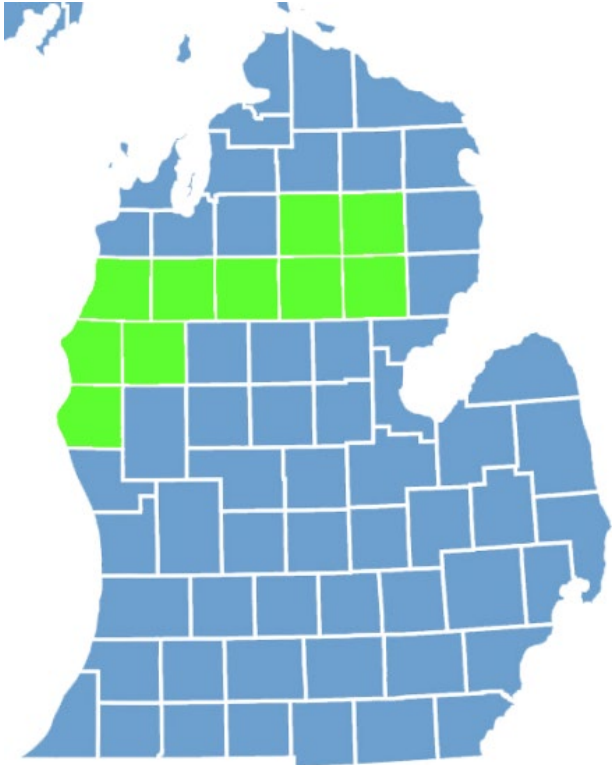
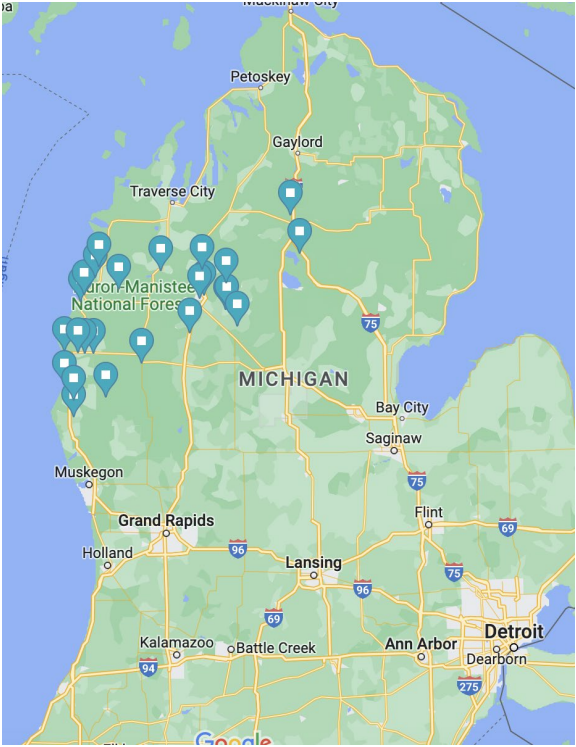


Cyber Security



Josh Hayes

ETA Districts



In the News

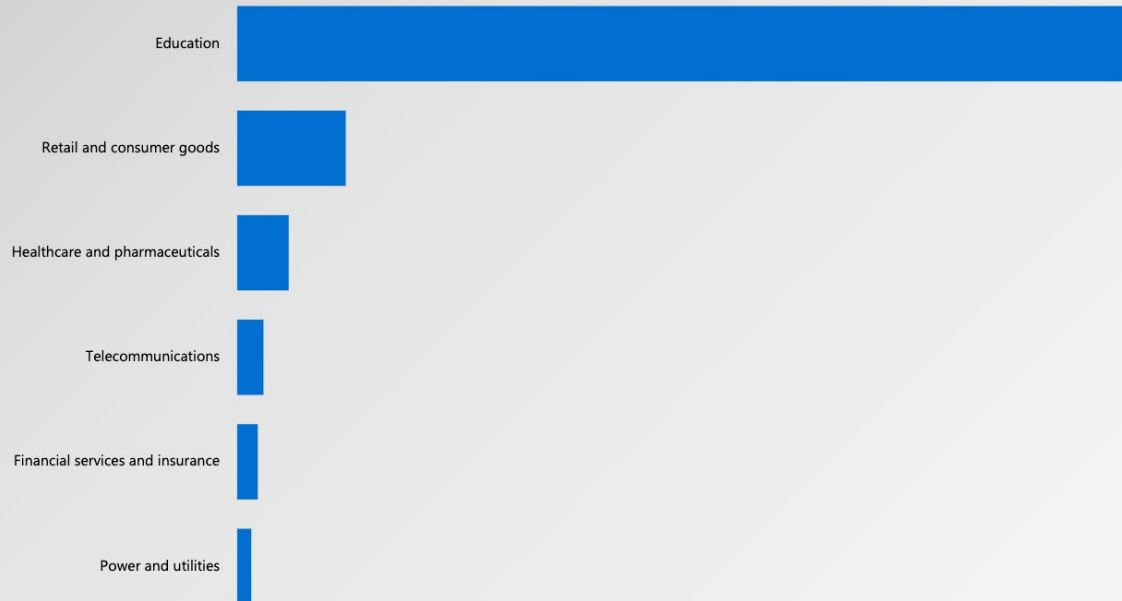
- 1 in 4 Schools were victims of Cyber Attacks
- In 2021, nearly a million students were impacted by 67 ransomware attacks against schools, with a cost of over \$3.5 billion in downtime.
- 2021 56% of K-12 schools surveyed by digital security firm Sophos reported being hit by some type of ransomware.



Top 10 Industries Malware

Most affected industries

Reported enterprise malware encounters in the last 30 days



Total devices with encounters: 9,213,618

Most affected industries

Reported enterprise malware encounters in the last 30 days

Education

[Show all industries >](#)

Devices with encounters:

7,389,511 (80.2%)



In The News

Hackers infiltrate second-largest US school district in growing trend

Los Angeles Unified, with over 600,000 students, suffers 'significant infrastructure disruption' but classes set to take place as usual



In The News

Survey: Cyberattacks targeting schools more often

Jackson County Intermediate School District was hacked Sunday



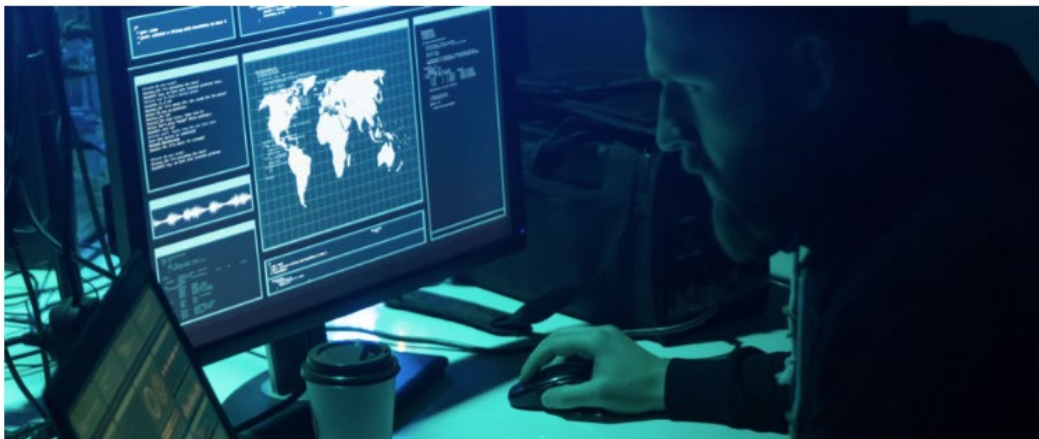
"The objective from those cybercrime groups is to stop the operations of any public, private or university institution,"

SECURITY

Why School Systems? The Rise of Ransomware in Public Schools

Due to their wealth of data and limited budget for cybersecurity staff and training, schools have drawn the eye of hackers. Experts recommend backing up data and investing in cybersecurity training and preparedness.

BY LUCAS ROPEK / AUGUST 12, 2019



Why are schools a target? (Perception)

- Users with limited or no security training
- Weak security controls and limited resources
- Lots of systems, which means lots of targets
- Unpatched or EOL software and hardware
- We value our data
- Our insurance pays



Multi-Billion Dollar Business

Average Ransomware Cost

- 2019 - \$43,590
- 2020 - \$170,000
- 2021 - \$812,000

<https://securityboulevard.com/2020/01/average-ransomware-payment-doubles-from-q3-to-q4-2019-study-reveals/>

<https://www.cybersecuritydive.com/news/ransomware-attacks-payouts-2021/622784/#:~:text=Ransomware%20hit%2066%25%20of%20mid,paid%20a%20ransom%20to%20adversaries.>





David Parkins

THE ECONOMIST – THE WORLD’S MOST VALUABLE RESOURCE IS NO LONGER OIL, BUT DATA

By Leeward Capital Management | Posted February 26, 2019 | In Articles



What if we pay?

- 45% of K-12 victims reported paying the ransom
- 96% you get an decryption key
- 92% of those keys work



Downtime

- 12.1 days Average
- 16.2 days in Q4



Why do we care?

■ Reputation (you and the school)

■ Liability

■ PII (DOB, SSN#)

■ Financial

■ Payroll

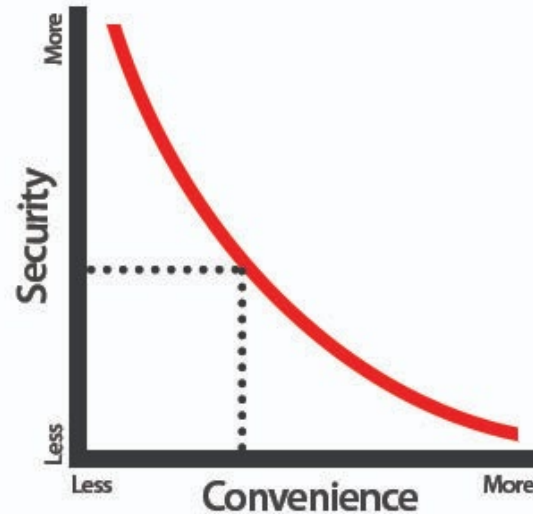
■ Medical information



What are the challenges?

- Public facilities
- Lots of users
- Lots of systems
- Limited resources

Security vs. Convenience





Companies spend millions of dollars on firewalls and secure access devices, and it's money wasted because none of these measures address the weakest link in the security chain: the people who use, administer and operate computer systems

— *Kevin Mitnick* —

AZ QUOTES

Protecting You



ACTION

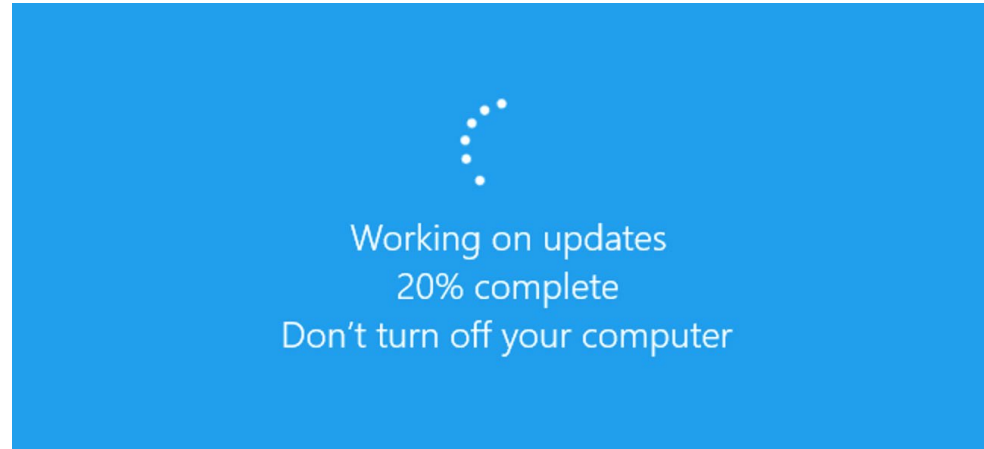
ADVISED

- Computer & Server Patches
- Multi-factor authentication
- Regular Phishing tests
- Internal communication
- Data Backups
- User Training
- Vulnerability Scan

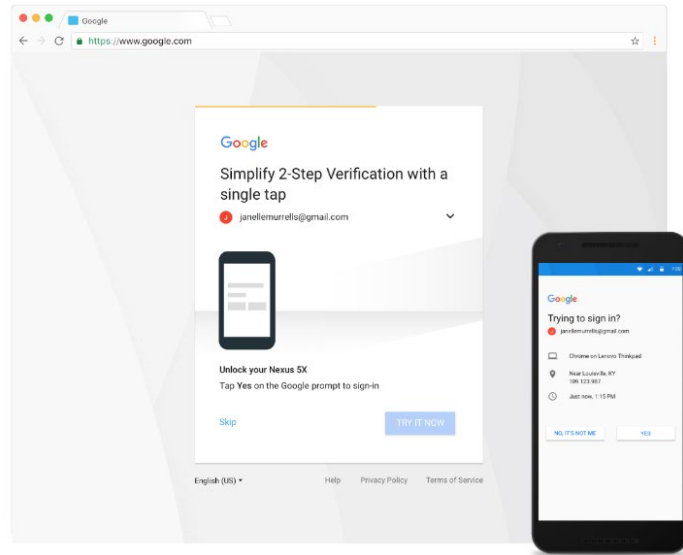


Computer/Server Patches

- Auto Update Schedule
- Scheduled Patches
- Emergency Patches



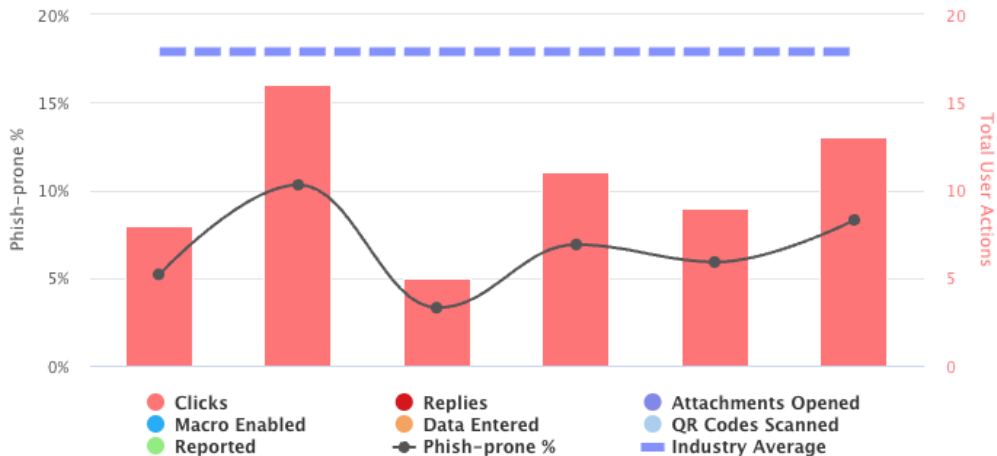
Multi-factor Authentication



Regular Phishing Tests

Phishing Security Tests - Last 6 Months

62 Clicks, 0 Replies, 0 Attachments Opened, 0 Macro Enabled, 0 Data Entered, 0 QR Codes Scanned, 0 Reported



Industry Benchmark Data ?

Account Average Phish-prone % **8%**

Last Campaign Phish-prone % **8.3%**

Industry Phish-prone % **17.9%**

Industry

Organization Size

Program Maturity

Industry Benchmark Chart Data



Internal Communication

- Cyber News

- <https://www.michigan.gov/mc3>



Data Backups

- Google (all the time)
- Servers (Nightly)
- All backups are verified and tested



User Training



Helpfulness of Content

Length of Content

Presentation of Content

4.8

4.5

4.7

4.7

4.9

4.7

Protecting You

Interviews Inbox x



Jon Hughes jon_hughes@hotmail.com via gmail.com
to me ▾

11:00 AM (0 minutes ago) ☆ ↶ ⋮



Be careful with this message

Jon Hughes has never sent you messages using this email address. Avoid replying to this email unless you reach out to the sender by other means to ensure that this email address is legitimate.

Report phishing

Looks safe



What does the schedule for interviews look like? How many do you have to do? What time frames are you thinking?

Sent from my mobile device.

↶ Reply

➦ Forward

Cyber Security



Vulnerability Scan








SCAN RESULTS

Last Scanned: 02/24/2023 | 53 Threats Scanned | 1028 Locations | 2 Issues Found

[Need Help?](#)

Name	Date	Locations Found	
 RDP Detection	02/24/2023	1 Locations	Open
 SSH Detection	02/24/2023	1 Locations	Open

 Safe Fortinet Device Vulnerable OPEN	 Safe QNAP NAS Vulnerable OPEN	 Safe WS02 Vulnerable OPEN	 Safe Spring Framework Vulnerable OPEN	 Safe Spring Cloud Function Vulnerable OPEN
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[View All](#)

[Re-Scan Now](#)

Cyber Security



Questions

