

Ransomware Attacks in the Education Industry

According to the 2022 Global Risks Report, 82% of malware attacks target the education sector. In the US alone, cybersecurity incidents affecting schools have increased almost 900% since 2019. Similarly in the UK, authorities report that ransomware attacks went up by more than 140% in the last two years.

Understanding the risks of vulnerabilities and cyberattacks is the best way to defend schools and students against threats.

Vulnerabilities That Lead to Ransomware Attacks



Phishing

A social engineering attack that attempts to collect information from victims.



Lack of security awareness

82% of breaches in 2022 involved human error, including incidents targeting happy clickers.



Use of outdated or EOL software

Continued use of end-of-life (EOL) software poses a consequential risk and leads to security vulnerabilities.



Trojan Malware Leads Cyberattacks Targeting Schools



Zeus

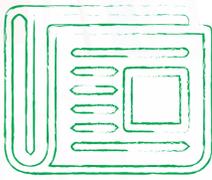
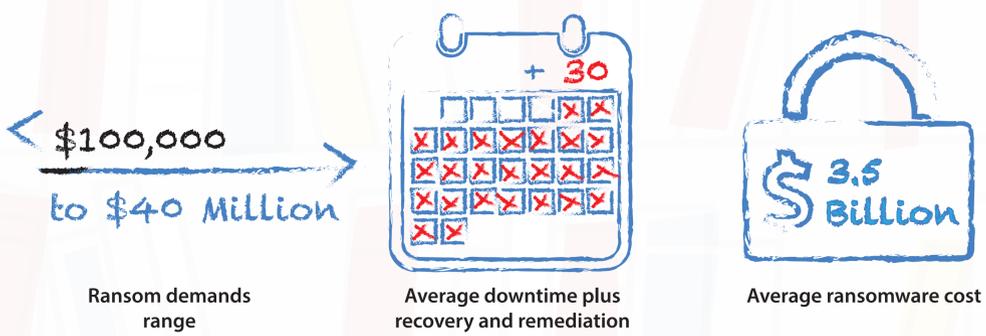
A trojan with several variants that targets Microsoft Windows operating systems. Hackers target machines and send stolen information to command-and-control servers.



Shlaye

A trojan downloader and dropper for macOS malware that is primarily distributed through malicious websites, hijacked domains, and malicious advertising posing as a fake Adobe Flash updater

The Cost of Ransomware in Schools and Colleges



Ransomware Attacks Targeting Education That Made Headlines

2020 | U.S. | Clark County School District

Affected Population: 320,000 students, staff, and faculty

Impact: Credential theft, leaked personal data, dark web exposure risk

This is largest ransomware attack against an educational institution since the COVID-19 pandemic started. Hackers published about 25GBs of personal data, including social security numbers.

2020 | Canada; US; UK | 8 Universities

Affected Population: 300,000+ students, staff, and faculty

Impact: Stolen data

Blackbaud, a Cloud computing provider was targeted by hackers to extort funds. Some of the stolen data included phone numbers and donations/events history.

2021 | UK | The Isle of Wight Education Federation (IWEF)

Affected Population: 2,000+ primary and secondary school (K-12)

Impact: Encrypted data including children and staff records, access to learning and admin systems

IWEF was asked to pay a ransom of \$1M. Reportedly, they did not pay the ransom and instead had to spend thousands of dollars in recovery and remediation.

2022 | US | Finalsite

Affected Population: 5,000+ boarding schools, high schools, colleges

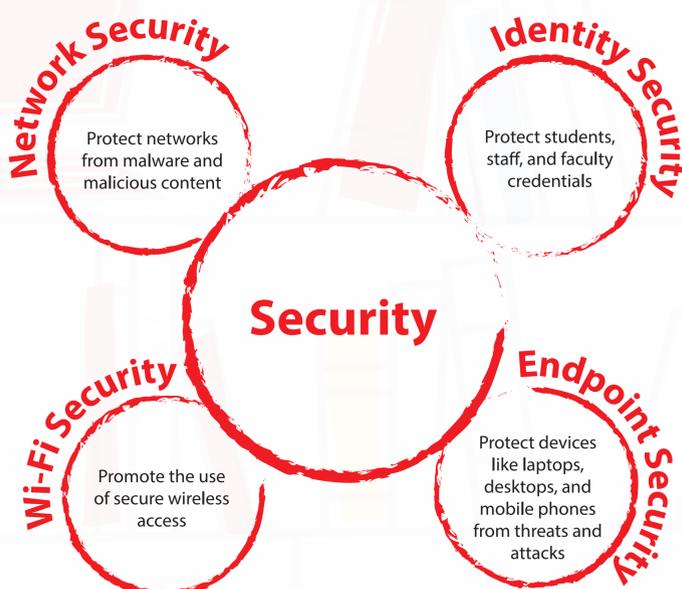
Impact: Interrupted communications, system outages

Finalsite, the online learning and communications platform that hosts thousands of K-12 and higher ed websites, shut down its systems after identifying the presence of ransomware.

Best Practices for Schools, Colleges, and Universities

- 1 Protect happy clickers: Think before you click. Breaches are relevant to our everyday duties
- 2 Run consistent software updates: Embrace the culture of patching and enable automated software updates
- 3 Promote security awareness: Empower students and faculty with security education
- 4 Seek additional funding opportunities to optimize security: Get extra financial support to optimize security through fundraising or subsidized programs sponsored by local or federal entities
- 5 Consider outsourcing security: Sometimes, partnering with a managed service provider is the most effective way to access advanced security solutions

Key Security Solutions



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