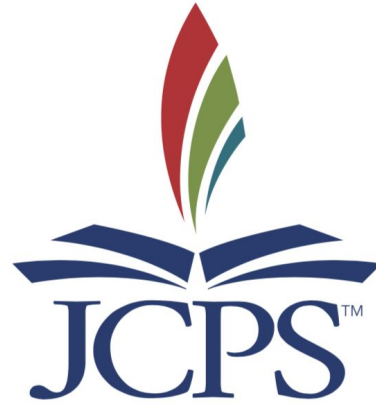


Jefferson County Public Schools

Digital Privacy, Safety, and Security



JEFFERSON COUNTY
PUBLIC SCHOOLS

IT³

Information • Integration • Innovation

How does JCPS IT3 Identify, Mitigate, and Manage Technology Risks?

Increased Risk

Risk Management Framework

JCPS Continuous Improvement Efforts

Systems and Awareness

Achieve balance of digital safety, privacy, and security for JCPS students and staff while supporting instruction and daily operations.

Increased Cybersecurity Risk

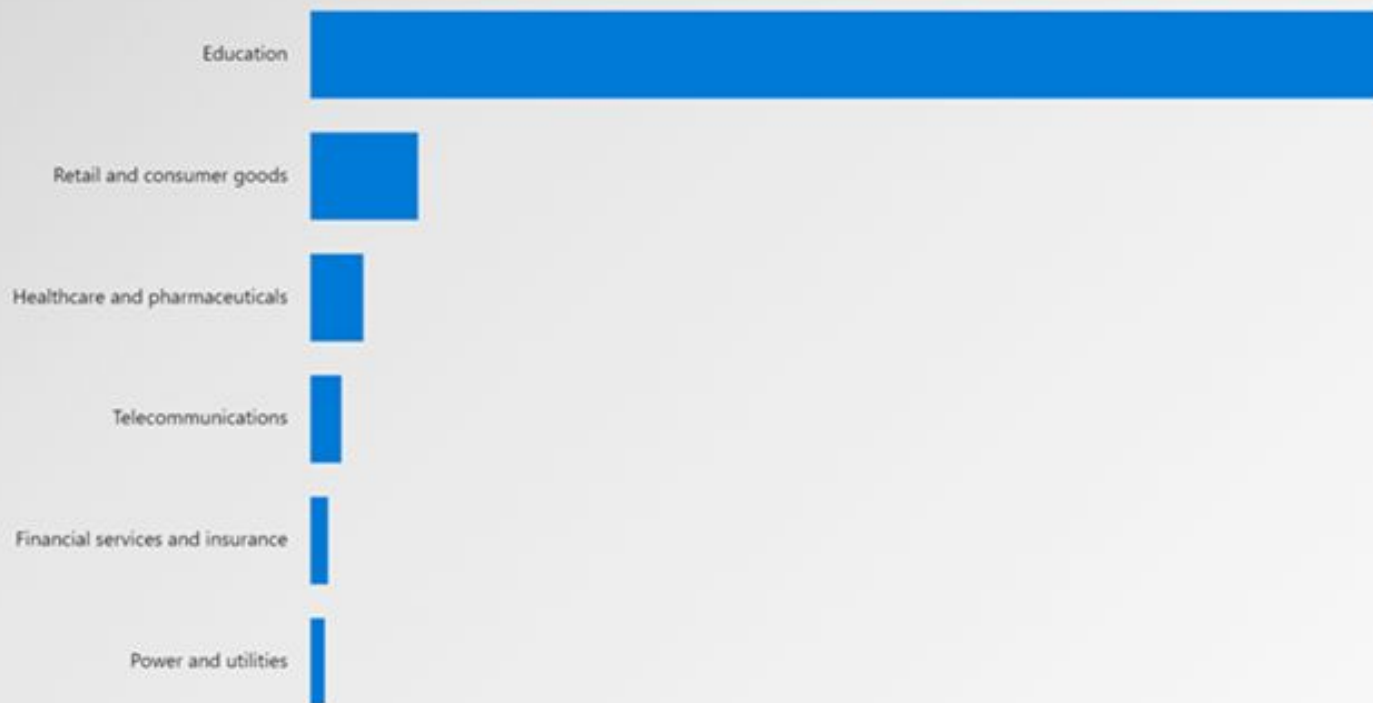


- Federal agencies predicted an 86% increase in cyber-attacks against schools this year and research shows that Education is BY FAR the most aggressively attacked segment for multiple reasons
- Phishing is at an all-time high and are becoming more sophisticated and better at tricking people into sharing PII, passwords, clicking on ransomware, buying gift cards, and so on
- Ransomware increased 13% - more than in the last 5 years combined
- 82% of breaches are due to people giving up/losing/being tricked out of passwords

Most affected industries

Select an industry ▾

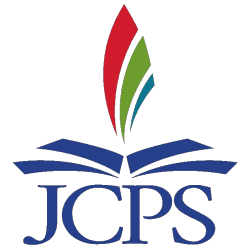
Reported enterprise malware encounters in the last 30 days



Total devices with encounters: 8,327,343

IT Risk Management

- National Institute Of Standards and Technology Cybersecurity Framework
- JCPS Information Technology Policies & Procedures
- Digital Resource Review Task Force
- IT3 Risk Management Task Force

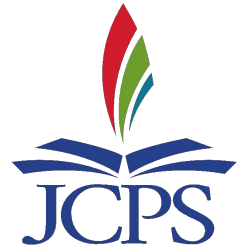


IT Risk Management

Continuous Improvement Efforts

Technical Controls

- Microsoft A5 - Defender for endpoint, Defender for cloud applications, phishing attack simulations, data loss prevention
- Google Workspace enterprise solution
- Expansion of data loss prevention tools
- JCPS critical systems - moving to cloud based solutions
- Continuing to reduce dependency on home grown custom developed software programs and increasing industry standard software solutions
- Network infrastructure upgrade
- Implementation of security incident and event management solution
- Single student and staff identity management solution
- Identity protection with real time AI monitoring of email links and JCPS owned identities



IT Risk Management

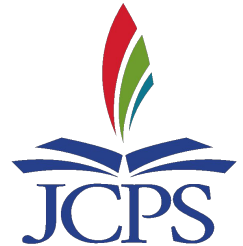
Continuous Improvement Efforts

Human Behavior

- Digital Privacy Awareness Training
- Expanded Phishing Campaign
- Digital Citizenship Curriculum

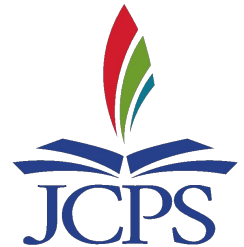
Organizational Coherence

- IT Risk and Compliance Governance - Matching NIST Policy and Procedures to systems to actively identify and remediate non-compliance.
- Third-Party Management with District-wide Digital Resource Review
- Cybersecurity Roadmap



IT3 Risk Management Systems of Awareness

- IT / Internal Audit Risk Assessment
 - Targeted vulnerability Assessment
 - Microsoft and Google Domain Assessment
 - Windows Device Security Baselines
- Network and application analytics, security awareness
 - Vector Training
 - Network analytics
 - Threat Intelligence Feeds



Closing Remarks / Questions

