

USE CASE: ADVANCED, SCALABLE EMAIL SECURITY FOR EDUCATION

Safeguarding the primary communication tool of educational institutions.

Educational institutions, whether K-12 or universities, are places where the transfer of information isn't limited to the confines of a classroom. Today's learning environments depend upon technology for their day-to-day transactions, using email as a primary tool for communication among students, educators, researchers, and other staff.

To foster community and learning, entities are open in nature – sharing research initiatives, information on system implementations, and sensitive data. With new methods of attacks emerging on a consistent basis, this mode of operation leaves institutions acutely vulnerable to cyber threats.

Cybersecurity Challenges for Educational Institutions

Schools are encountering various cyber attacks and there have been significant increases in nefarious actors leveraging email as a

popular vector to compromise sensitive data, harvest credentials, and infiltrate school networks.

On a daily basis, educational institutions are bombarded with highly-targeted phishing attacks that can deliver ransomware and zero-day malware, business email compromise (BEC), spoofing, and cryptojacking as a way to impart significant damage and gain a stronghold of the environment. While most schools have some protections in place, it isn't enough – they remain vulnerable to attacks that cause financial loss, reputation damage, and other significant disturbances.

Breaches in Compliance Come at a Cost

No one is immune to well-crafted attacks – especially untrained and impulsive students. Emails with malicious URLs and attachments are easy bait for larger attacks that can place educational institutions in breach of compliance standards.

Without proper security measures, it can cost schools the funds that keep them running – if children aren't protected from adult content on the web, the Children's Internet Protection Act (CIPA) could restrict e-Rate funding, while the Family Educational Rights and Privacy Act (FERPA) has the power to remove funds if schools don't safeguard the privacy of student education records. All it takes is one malicious phishing campaign to unlock a major data breach that endangers vital compliance status.

On-Prem and Cloud Email Requires Multi-Layer Solutions

On-premises email servers are no longer the favored solution for managing and storing communications. In education, it's commonplace to use cloud-based applications such as Office 365 and G Suite for the flexibility and agility benefits they offer. However, multi-layer protections that go beyond anti-spam and anti-malware are either unavailable or too expensive to implement from Microsoft and Google. This leaves schools searching for seamless security solution integrations that do not increase overhead.

For institutions that have continued to operate on-prem, legacy solutions are not equipped to handle modern, advanced persistent threats. With limited IT personnel and budget, proactive protections that block malicious emails and impostor-based attacks are too much of a burden.

Whether on-prem or in the cloud, educational entities can benefit from an easy-to-use and affordable hosted email security solution that integrates with new or existing email infrastructure.

SonicWall Hosted Email Security

SonicWall Hosted Email Security offers superior, cloud-based protection from email-borne threats. Offered at an affordable, predictable and flexible monthly or annual subscription price with minimal deployment costs and administrative expenses, even the tightest

school budgets can afford a scalable, multi-tenant security solution.

To prevent harmful attacks, SonicWall Hosted Email Security with Capture Advance Threat Protection service dynamically scans all suspicious email attachments and embedded URLs, analyzes them in a multi-engine sandbox that has some of the best efficacy rates in the industry, and blocks dangerous files or malicious URLs before they reach your network.

Benefits:

- Secures your Office 365, G Suite and on-premises email servers while using less IT manpower to achieve better security and at a lower cost
- Utilizes a combination of methodologies such as machine learning, heuristics, reputation and content analysis to prevent sophisticated phishing attacks
- Blocks malicious attachments and embedded URLs before they reach your network
- Stops emerging threats with real-time threat intelligence
- Secures data with enforced granular data loss prevention (DLP) and compliance policies
- Provides true multi-tenancy with granular control over management, provisioning, reporting and branding for each tenant
- Minimizes upfront costs through predictable annual or monthly subscription plans
- Reduces overhead for administrators with easy management and reporting that can identify who is accessing the email environment
- Preserves network bandwidth by harnessing the power of the cloud for threat analysis
- Ensures emails are always delivered, and productivity is not impacted during planned or unplanned outages

SonicWall Email Compliance and Encryption

To enforce strong data loss prevention and compliance, the solution includes a powerful email compliance policy engine. Together with the Email Encryption add-on subscription service, the policy management offers a powerful framework for stopping data leakage, managing compliance requirements, and providing mobile-ready secure email exchange.

In instances where educational entities must provide reporting to law enforcement or other regulating bodies, the joint solution enables organizations to identify email for compliance policy enforcement; apply multiple email governance policies; monitor and report on email traffic; and ensure the secure exchange of sensitive and confidential information.

Benefits:

- Ensures the secure exchange of email containing confidential information with advanced cloud-based encryption service
- Easy-to-find predefined information with Record ID matching
- Protects against the release of unauthorized information with attachment scanning information
- Consistent compliance with predefined policies
- Ensures the protection of confidential information with predefined dictionaries
- Simplified record keeping with email archiving

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About Us

SonicWall has been fighting the cybercriminal industry for over 27 years defending small, medium-size businesses and enterprises worldwide. Backed by research from SonicWall Capture Labs and the formidable resources of over 26,000 loyal channel partners around the globe, our award-winning, real-time breach detection and prevention solutions secure more than a million business and mobile networks and their emails, applications and data. This combination of products and partners has enabled an automated real-time breach detection and prevention solution tuned to the specific needs of the more than 500,000 organizations in over 215 countries and territories. These businesses can run more effectively and fear less about security. For more information, visit www.sonicwall.com or follow us on Twitter, LinkedIn, Facebook and Instagram.

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