CYLANCE

Next-Generation **ANTIVIRUS** for Education

Educators have enough to worry about. Through long-standing relationships with major universities and research institutions, Cylance® has developed a strong understanding of the needs of modern education systems. With the myriad of local, state and nationwide systems connected in each university, the potential for an attack is greater then ever. Cylance has the skilled professionals and a host of products and services to determine if you've been breached, help you respond, and then, ensure your systems are not breached again.

CylancePROTECT®

CylancePROTECT is a next-generation antivirus product that redefines what antivirus can and should do for educational institutions by leveraging artificial intelligence to detect AND prevent malware from executing on every endpoint in real time.

The fundamentals of malware detection have remained the same for more than three decades. In the face of constant innovation from attackers, traditional antivirus vendors continue to focus on aging technologies that use signatures and post-attack behavior analysis to protect computers. A new approach is required.

Algorithmic science and machine learning are fundamentally shifting the equation, offering new ways to effectively identify, diagnose, categorize and control the execution of every file. Cylance is leading this revolution with predictive and preventive products such as CylancePROTECT.

CylancePROTECT is a simple, lightweight agent that offers complete protection from system- and memory-based attacks, spear phishing, zero-day malware, privilege escalations, scripts and malicious and potentially unwanted programs, all without the high false positive rates, operational overhead and management complexity of other solutions. With CylancePROTECT, it's now possible to set and meet much higher standards for endpoint security. We stop the threats that others can't, and we do it without daily updates or requiring an Internet connection.

Cylance Professional Services

Complimenting Cylance's revolutionary technology product is a set of professional services that provide pre-attack penetration and vulnerability testing, compromise assessments and post-attack incident response. Cylance's expert professional services team blends deep experience with educational institutions and the company's leading technology to deliver an unrivaled level of service and protection. These education-focused services are designed to provide total endpoint security, free up IT resources, consolidate security costs and prevent cyberattacks before they execute instead of just detecting them after they have already caused harm.

Case Study: Educational Institutions Perfect Target for Ransomware

The Situation

A traditional northeastern university with over 7,500 students was the victim of a CryptoLocker variant, ransomware that propagates via infected email attachments and botnets to encrypt certain files. The encrypted files can only be opened with a private key stored on the malicious actor's server. In this case, the victim received a message offering to decrypt the data only if payment was received through Bitcoin or cash voucher by a deadline. The message threatened that if payment was not made by the deadline, the private key would be deleted or a higher ransom would be demanded. Understanding that traditional signature-based antivirus was not capable of protecting their infrastructure from advanced malware like this CryptoLocker variant, the University reached out to Cylance and initiated a Proof of Concept (POC) for CylancePROTECT.

The Process

Over the course of four weeks, Cylance deployed and monitored CylancePROTECT on 57 systems inside the University. Out of the 57 monitored hosts, Cylance was able to identify and block malware that had gone undetected by traditional antivirus solutions on 33. In total, Cylance was able to immediately quarantine 183 pieces of unique malware and 107 additional potentially unwanted programs. Of those malware samples, 35 were completely missed by every other antivirus engine. During the POC, multiple variants of CryptoLocker were identified, blocked and prevented from executing without disrupting any of the University's normal operations.

The Results

After the POC, the University purchased a full site license for CylancePROTECT and deployed it throughout the University, replacing Microsoft Security Essentials in less than eight hours with no impact on end-users.

Cylance Privacy Commitment

Cylance is committed to protecting your organization against advanced threats, which includes privacy disclosure. We do not publish the names of our case study partners for this reason.

Free Consultation

Want to see how CylancePROTECT and Cylance Professional Services will empower your organization in the fight against cyberattacks? Contact us today for a free consultation!

About Cylance:

Cylance is the first company to apply artificial intelligence, algorithmic science and machine learning to cybersecurity and improve the way companies, governments and end-users proactively solve the world's most difficult security problems. Using a breakthrough predictive analysis process, Cylance quickly and accurately identifies what is safe and what is a threat, not just what is in a blacklist or whitelist. By coupling sophisticated machine learning and artificial intelligence with a unique understanding of a hacker's mentality, Cylance provides the technology and services to be truly predictive and preventive against advanced threats. For more information, visit cylance.com

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