VulnX™

Patching and Configuration Solution

SafeHarbor™ Maritime Cybersecurity Solutions

Almost every industry deals with persistent cybersecurity threats. ***The maritime industry is no exception.*** Cyber exposure is growing for these companies as various maritime activities, both land- and sea-based, rely on the effectiveness and accuracy of Information Technology (IT) and computer data. Any disruption or interference to these operations can be consequential. While public reports of incidents are less frequent compared to other industries and often vague, the financial, economic, and legal impacts of cyber threats to the maritime industry are no less real. ***How can the maritime industry mitigate cyber threats?***

One of the most proactive steps a company can take to reduce exploitation from cyber threats is to patch published vulnerabilities in software and systems in a timely matter. This is critical to maintaining the operational confidentiality, integrity, and availability of ***complex, mission critical systems operating in unforgiving maritime environments***. However, a maritime cybersecurity firm recently found that 37% of ship servers running Microsoft had not been patched and were vulnerable to attacks[1]. As opposed to companies with more traditional computing systems, this can prove challenging for many maritime companies with systems isolated at sea.

VulnX is a cloud-based, automated patching and configuration management solution used to secure networks and suit the dynamic needs of companies within the maritime industry. It is based on Gnostech's cybersecurity solution used by the U.S. Navy, Coast Guard, and the intelligence community. With VulnX, you gain a holistic view of your organization's security posture and reduce vulnerability risks all while maintaining integrity of critical operations.

VulnX is part of SafeHarbor, a suite of solutions that encompasses Gnostech's diverse maritime and cybersecurity offerings.

[1] Chamber, Sam. "Lack of patching leaves maritime sites open to remote control risk." Splash24/7. Posted May 4, 2015, http://splash247.com/lack-of-patching-leaves-maritime-sites-open-to-remote-control-risk/.

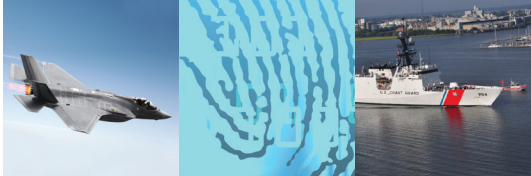
Business Challenges

Reducing time-consuming, costly, and labor-intensive processes involving patch/update distribution

Effectively operate and update systems in a low bandwidth environment

Verify that patches/software updates do not negatively impact functionality and operational capability of critical systems

Deploy patches/software updates to globally dispersed operational units that have minimal technical support



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Knowledge. Technology. Success.

VulnX™ Solution Lifecycle

SafeHarbor™
Maritime Cybersecurity Solutions

Patch Management

Address security, functional, and programmatic related issues in software and firmware to significantly reduce the opportunities for exploitation across the entire network. VulnX delivers identification and notification of the latest patch vulnerabilities across multiple platforms and applications. It supports security and non-security patches to Microsoft Operating Systems and third party applications.

Streamlined Deployment

Cloud-based capabilities are scalable and enable VulnX's services to be available in any size or type of environment. VulnX works in the background of critical mission planning operations, and has the appropriate mechanisms to account for low bandwidth and connectivity loss. Automated execution minimizes the risk for user error, and lowers overall administrative burden.

Secure Baseline Management

Ensure that your system and endpoints are current, secure, and compliant with your baseline profile and policies. VulnX creates continuous policy enforcement through the creation of baselines for whole system remediation as well as sub-baselines that define patches for operating systems, applications, or different hardware specifications. These baselines enforce policy-based installation of new and updated software packages. Additionally, VulnX's use of data persistence allows for preservation of data before any patch or software update is applied.

Compliance Monitoring

VulnX's scanning capabilities determine if systems have been configured and comply in accordance to set baselining. Its server management interface provides the ability to view, log, and assess system compliance in real-time from any remote location. Easily generate compliance reports for a specific baseline and/or sites to identify software anomalies. In addition, VulnX has the ability to meet custom requirements for compliance or functionality purposes. Meet compliance and regulatory standards, mitigate lost opportunities, and reduce the risk of legal and financial penalties.

Reporting

Gain a thorough view of your entire system with rich reporting capabilities, including compliance reports and a range of report export and upload options. Generate reports summarizing latest patch activity for a specific site or the entire system, success/failure of downloads, installations, and compliance status.

User Interface

VulnX's intuitive and responsive interface creates an optimal end-user experience while its server management interface provides system compliance monitoring and custom data provisioning in real-time.

Software-as-a-Service (SaaS)

There is no software to purchase, simply pay for the number of endpoints needed.

Why VulnX™

Provides structured cybersecurity compliance in complex environments while reducing administrative burdens

Customize to meet particular compliance and functionality requirements

Deploy patch/software updates without interference to mission critical systems

Scalable and modular solution

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About Gnostech Inc.

Gnostech Inc. is an applied engineering and consulting company with 35 years of experience and expertise in information assurance and cybersecurity engineering, and major combat and space systems development and integration. Gnostech provides the necessary knowledge and technology to ensure success of critical missions for customers in both the defense and maritime industries. To learn more, visit www.gnostech.com.