

## **Defend your agency against firmware attacks and malware encrypted data—discover best practices to combat ransomware threats**



### **Fortify your data center**

Ransomware attacks are skyrocketing. It seems like every week we see a new city, government agency, police station, college, or company being affected by a ransomware attack. If you're like most organizations, the question is no longer, "what if an attack happens", it's "when will an attack happen". Attackers are disabling servers and encrypting data, holding organizations hostage, at an alarming rate—increasing 46% in Q2 2019<sup>1</sup>.

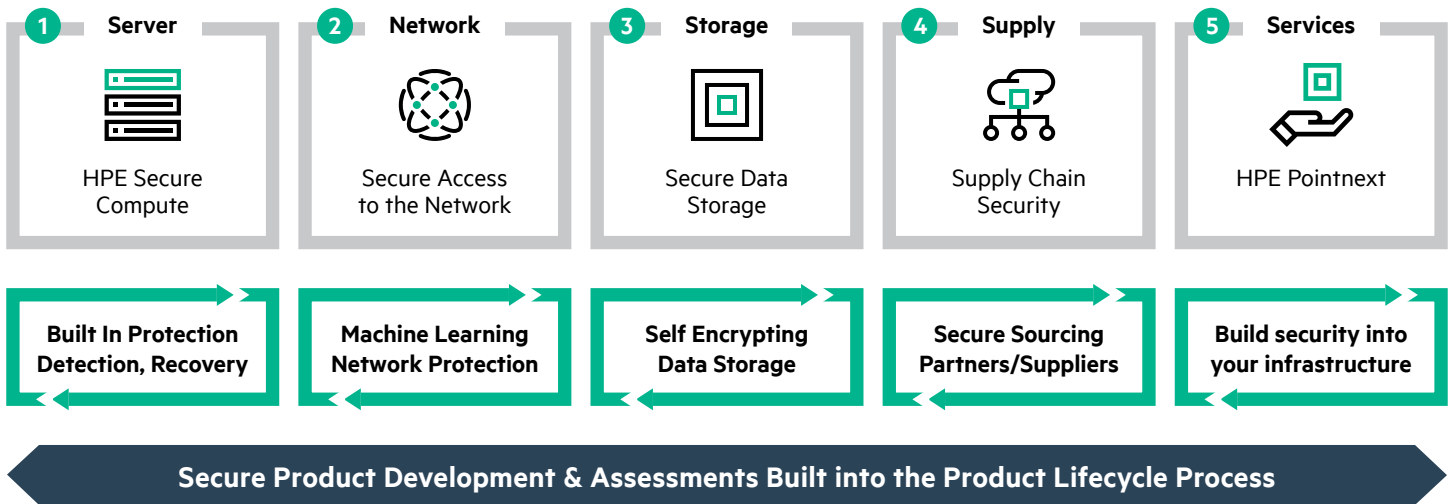
Protect your organization from malicious ransomware threats with HPE. Our holistic approach to security can help you **protect, detect** and **recover** quickly from ransomware attacks threatening your organization. HPE is uniquely positioned to ensure our hardware and data storage are resilient in the face of threats. From our servers and storage, to Aruba AI-enabled networking and security, to our firmware and software, we have innovative security features that go beyond perimeter security, hardening your infrastructure against attacks.

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1. Kaspersky Press release: [https://usa.kaspersky.com/about/press-releases/2019\\_kaspersky-reports-ransomware-modifications-double-in-q2](https://usa.kaspersky.com/about/press-releases/2019_kaspersky-reports-ransomware-modifications-double-in-q2)

## HPE Built-in – Product Security Across the Portfolio

HPE is two generations ahead of other server and storage manufacturers<sup>2</sup> and has one of the most comprehensive security strategies, focused on protecting, detecting, and recovering an organization’s infrastructure and data when a cyber-attack occurs. Agencies that partner with HPE operate with confidence, because our holistic approach to security and industry leading regulatory compliance requirements. HPE security assurance even reaches all the way back into the supply chain to help ensure secure and robust products.



### Protect against new vulnerabilities

- End-to-end supply chain security at every touch point for protection against firmware tampering.
- Aruba ClearPass provides visibility and dynamic role-based access control for seamless security enforcement and response across your wired and wireless networks.
- HPE Pointnext professional services can help build security into your infrastructure from edge to cloud.
- HPE Gen10 server silicon root of trust, creates an immutable fingerprint, verifies the firmware code is valid and uncompromised, preventing the server from booting with compromised firmware.
- NIST 800-53 security controls implemented in our servers, networking, and storage products provide one of the strongest and most comprehensive controls for operating IT equipment.

### HPE Gen10 servers defend against infrastructure attacks

An HPE server infrastructure can be your strongest defense, armed with the latest innovations to guard against and recover from security attacks. Protect your organization with HPE server innovations in firmware protection, malware detection, and firmware recovery. Safe guard your most confidential information with the world’s most secure industry-standard servers.<sup>3</sup>



2. Black Hat testing firm publically declared HPE as 2 generations ahead of our 3 leading competitors.

3. HPE Internal Testing, February 2017





### Detect intruders fast and maintain operations

- HPE InfoSight uses predictive analytics to predict, prevent, and auto-resolve problems from storage to VMs before they can affect your organization.
- HPE Gen10 runtime detection runs background verification checks on the iLO5 firmware and the UEFI BIOS, which provides a distinct advantage in knowing quickly if an attacker has compromised firmware.
- HPE Pointnext vulnerability detection and remediation can help develop the processes necessary for quick remediation.
- HPE provides four levels of security, including: Commercial National Security Algorithms (CNSA), production level, high security level, and FIPS level built-in our servers.



### HPE Aruba Networking security

Award winning Aruba security products provide 360 degree protection by combining ClearPass network access control with behavior analytics-based attack detection, that can quarantine a suspicious device and alert malicious threats.

### Recover quickly from an attack

- Aruba ClearPass provides auto-remediation and quarantines attacker for verification.
- HPE Pointnext backup and recovery services can help keep your data safe and reduce your risk of data loss from cyber attacks.
- HPE server system restore leverages HPE iLO Amplifier Pack software to securely restore up to 10,000 servers with a single click. In the event of a ransomware attack or other breach, you can automatically or manually recover the server's essential firmware, firmware configuration settings, OS, and host environments back to an operational state.
- HPE Storage Snapshots enable fast virtual machine (VM) and granular recovery to override encrypted ransomware databases, applications, files, and operating systems (OS).



### HPE StoreOnce and HPE 3PAR secure data protection

Achieve the security policy and compliance goal of end-to-end data integrity when you back up your data with automated data encryption at rest. And, HPE Recovery Manager Central (RMC) integrates HPE 3PAR, HPE Primera and HPE Nimble all-flash arrays with HPE StoreOnce Systems, leveraging snapshot performance with backup protection to deliver flash speed application protection and recovery.

### Protecting the Supply chain

Our suppliers are required to comply with standards based policies and industry-wide best practices, including ISO and the Defense Federal Acquisition Regulation Supplement. HPE suppliers must also ensure their shipping and logistics processes are compliant with Customs-Trade Partnership Against Terrorism (C-TPAT) or comparable programs. Our deliveries are tracked, monitored and shipped non-stop from manufacturing facility to your data center, providing anti-tampered products.





## Build security into your infrastructure

HPE Pointnext can help build security into your infrastructure with the HPE Enterprise Security Reference Model based upon industry standards such as NIST, ISO, and CSA. This provides us with a framework to assess your current security, and provide actionable blueprints and roadmap services to help you move to best practices based security architecture.

## New Cyber Catalyst program takes the guesswork out of cybersecurity

Further expanding the end to end cyber security protection for our customers, HPE has been working with Marsh, a leading cyber insurance broker, which recently announced a new program aimed at helping organizations make smarter decisions about cybersecurity solutions. The program, Cyber Catalyst, brings together 8 leading cyber insurers to evaluate cybersecurity products and services and identify those they believe can reduce cyber risk.

Companies around the world need help determining the best solutions to help reduce and manage their cyber risk, but can find it challenging to navigate the \$114 billion cybersecurity market and evaluate the thousands of available cybersecurity products. The Cyber Catalyst designation creates a base-line of cybersecurity solutions that leading insurers believe can help organizations improve their approach and outcomes to cyber risk management.

Cyber insurance is the fastest growing component in the insurance industry and cyber insurers have extensive experience responding to the most catastrophic and costly cyber events of the past decade. Watch for more details as this program progresses and HPE expands its involvement over the coming months. Companies and agencies that use products with the Cyber Catalyst designation may qualify for enhanced terms and conditions for their cyber security insurance.

## Get started today

A resilient organization must not only protect against attacks, it must quickly detect intrusions and begin remediation activities in order to maintain business continuity. Let HPE help you create a comprehensive security environment that will protect, detect, and recover. Be confident that your infrastructure is secure from threats even at the firmware level.

Learn more by downloading:

**Vulnerability Analysis Data Sheet:** [hpe.com/info/SecurityVulnerability](https://hpe.com/info/SecurityVulnerability)

**Cyber Incident Response and Recovery Service Data Sheet:** [hpe.com/info/SecurityServices](https://hpe.com/info/SecurityServices)

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