Hewlett Packard
Enterprise

Secure delivery of on-demand IT resources

vArmour DSS on HPE Hyper Converged 250

<VA> vARMOUR

HPE Hyper Converged

- Highly efficient general-purpose virtualization platform

- Easy to use and hybrid cloud-ready

- Ready to use in hours, not days. Factory-integrated modular appliance which includes everything you need to converge your IT

Delivering simple and secure IT infrastructure

In today's increasingly complex technology landscape, security has become both more critical and difficult to implement and manage. IT services extend data center boundaries and geographies, dealing with the cloud and the Internet of Things (IOT). Hewlett Packard Enterprise and vArmour have worked together to simplify and secure modern IT delivery for organizations worldwide.

Hewlett Packard Enterprise brings together HPE technologies in software-defined storage and compute to consolidate and simplify resources into a hyper converged platform. HPE has brought and vArmour introduced the industry's first distributed security system (DSS) to deliver application-aware visibility and control of workloads in a single system for seamless security and ease of use.

Together, vArmour DSS running on HPE Hyper Converged platforms enable simple delivery of on-demand virtualized compute, storage, and security resources. The combined solution gives you the ability to visualize real-time traffic of any virtualized application or workload to detect and remediate potential threats, as well as gain greater awareness of infrastructure utilization.

Visualize

Hewlett Packard Enterprise and vArmour provide deep analytics, trend visualizations, and suspicious behavior detection to determine the overall security, storage, and compute posture of the entire hyper converged infrastructure.

- HPE OneView for VMware® vCenter's centralized management console provides real-time monitoring and visibility across hyper converged storage and compute.

- vArmour DSS includes real-time monitoring and visibility across networks, applications, and users with application-aware context to detect laterally moving advanced persistent threats (APTs) effectively.

Secure

vArmour's application-aware micro-segmentation helps you meet necessary compliance standards by logically separating workloads on the HPE Hyper Converged solutions, without wasting infrastructure resources.

- vArmour DSS allows every workload and application to secured on the HPE Hyper Converged platforms, providing granular protection of application-layer traffic not provided by traditional virtual infrastructure security solutions.

- vArmour DSS micro-segments shared compute and storage resource pools into logical policy groups across the HPE Hyper Converged environment to separate critical assets in order to enforce security and compliance requirements.

Simplify

Simplicity makes Hewlett Packard Enterprise hyper converged systems the go-to choice for midsize businesses, remote and branch offices (ROBOs), and lines-of-business (LOBs). No additional dedicated specialist is required to deploy or maintain them. Their self-contained, modular structure scales by simply adding additional hyper converged nodes or full appliances.

The streamlined vArmour DSS system provides a single point of global policy creation and enforcement across cloud and infrastructure providers—including the HPE Hyper Converged platforms—to help eliminate security silos and increase deployment speed.

- As new workloads are provisioned on the HPE Hyper Converged platforms, vArmour DSS removes the need to write new security policies manually at the point of creation, so security can match the speed of on-demand compute and storage resources.

- With its comprehensive software architecture, vArmour DSS can easily auto-scale security policies with new applications and workloads using native VMware vMotion capabilities.

Key benefits

- **HPE Hyper Converged platforms** using vArmour DSS offers simple delivery of on-demand compute, storage, and security resources

- Worldwide hardware and software support

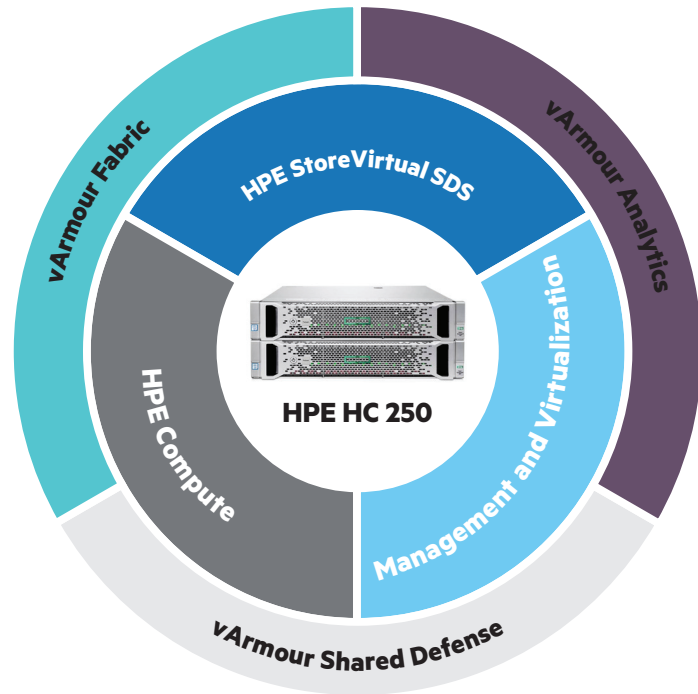- Built-in data management features and disaster recovery capabilities

Figure 1.   HPE Hyper Converged and vArmour DSS architecture

Use cases

- **Logical segmentation of mixed workloads:** The HPE Hyper Converged platforms are built on powerful compute and resilient storage resources, customized to handle a variety of workloads from on-demand IT infrastructure to mission-critical applications. Application-aware micro-segmentation from vArmour DSS provides logical segmentation of these mixed virtual environments on the same underlying resource pool providing effective resource utilization while enforcing per workload security and compliance requirements for critical assets and applications.

- **Remote office and branch office protection:** Remote office and branch office (ROBO) locations can leverage the HPE Hyper Converged platforms as a pay-as-you-grow model, without spending the budget on siloed compute and storage resources. vArmour DSS's software-based approach provides a global security policy that can be easily applied to additional sites on demand, with no costly additions of specialized hardware.

- **Secure infrastructure as a service:** The HPE Hyper Converged platforms are designed to meet the demanding speeds of your business by delivering compute and storage as an on-premise cloud service. vArmour DSS seamlessly deploys security policies as new workloads provisioned on the HPE Hyper Converged platforms, helping eliminate the security gap that traditionally hinders the agility of high speed IT operations.

Key benefits

Increased security
Application-aware micro-segmentation with advanced security analytics from vArmour on the HPE Hyper Converged platforms gives you the protection you need to detect and prevent modern advanced persistent threats (APTs). Regardless of whether workloads reside on Hewlett Packard Enterprise or public cloud infrastructure, vArmour DSS can see and stop laterally moving attackers—resulting in greater security than perimeter-only security solutions.

Resources and additional links

HPE Hyper Converged systems
hpe.com/us/en/integrated-systems/hyper-converged.html

HPE Converged Infrastructure library
hpe.com/info/convergedinfrastructure

vArmour product overview
varmour.com/product/overview

Get started with free data center visibility from vArmour
varmour.com/dssv

Improved resource utilization

The HPE Hyper Converged platforms with vArmour DSS provide software-driven, scale-out capabilities to garner the most value from compute, storage, and security resources. Infrastructure-independent vArmour DSS micro-segments applications on top of the existing the HPE Hyper Converged platform. This allows workloads at different security levels to share and help maximize the same resource pool.

Greater IT and security speed

Using the HPE OneView Instant On wizard-driven startup tool and vArmour DSS installer, you can deploy complete virtualized compute and storage infrastructure simultaneously with security by default.

Easy management

Centralized management of compute, storage, and virtual machines (VMs) from inside HPE OneView for VMware vCenter Server enables IT generalists (with no specialized storage, server, or virtualization expertise) to manage the entire virtual infrastructure from a single interface. vArmour DSS centrally manages and deploys security policy on a per-workload basis, providing a consistent and simple enterprise security model from a single solution in cloud environments.

About Hewlett Packard Enterprise and vArmour

About Hewlett Packard Enterprise

Hewlett Packard Enterprise is an industry-leading technology company that enables customers, like you, to go further, faster. With the industry's most comprehensive portfolio, spanning from the cloud to the data center, and to workplace applications, the HPE technology and services help customers around the world to make IT more efficient, more productive, and more secure.

Mission: Further together. To succeed today, it takes more than technology. It takes partnership. That is why the Hewlett Packard Enterprise brand focus is on building the right kind of partnership—the one that works best for you—where collaborative ideas come together and help you move forward faster. Together, we will propel your business further.

About vArmour

Based in Mountain View, California, vArmour is a data center security company—transforming how organizations protect their virtualized and cloud assets in a multi-cloud world. The company was founded in 2011. Top investors including Highland Capital Partners, Menlo Ventures, Columbus Nova Technology Partners, Citi Ventures, Work-Bench Ventures, and Allegis Capital back the company. The vArmour DSS is deployed in a significant number of the world's largest banks, telecom service providers, government agencies, healthcare providers, and retailers. Today, vArmour leads the industry with a new, patented distributed approach to data security that allows organizations to deliver IT at the speed of business. Along with partners such as Amazon and Hewlett Packard Enterprise, vArmour secures many of the largest data center and cloud environments in the world.

Learn more at
hpe.com/info/hyperconverge
varmour.com/product/overview

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