

Reducing DHS CDM Cost and Complexity with SimpliVity Hyperconverged Infrastructure

SimpliVity's OmniStack hyperconverged infrastructure solution revolutionizes the data center by assimilating all IT infrastructure and services below the hypervisor into compact x86 building blocks. The SimpliVity solution delivers the best of both worlds: the enterprise-class performance, protection and resiliency government agencies require, with the cloud economics they demand.

Designed from the ground up to meet the stringent price-performance, scalability, and resiliency demands of today's highly virtualized IT environments, OmniStack dramatically reduces capital equipment and operating expenses, while accelerating application performance. The solution is ideally suited for scaling data-intensive programs like the U.S. Department of Homeland Security's (DHS) Continuous Diagnostics and Mitigation (CDM) and Contin-uous Monitoring as a Service (CMaaS) program.

Securing U.S. Federal Networks

The DHS CDM program is intended to protect U.S. federal government networks against cyber security threats and attacks by enabling IT administrators to accurately assess the security posture of their networks at any given time. CDM detects and ranks security vulnerabilities, allowing IT personnel to proactively identify and mitigate risks in near-real time using intuitive dashboards. The program also

provides progress tracking reports, which can be shared across agencies to fortify the overall security of government networks and IT systems.

CDM utilizes a combination of special-purpose agency-supplied sensors that search for security flaws and vulnerabilities, and commercial-off-the-shelf (COTS) applications that collect, aggregate and analyze critical security-related information.

CDM Deployment Challenges

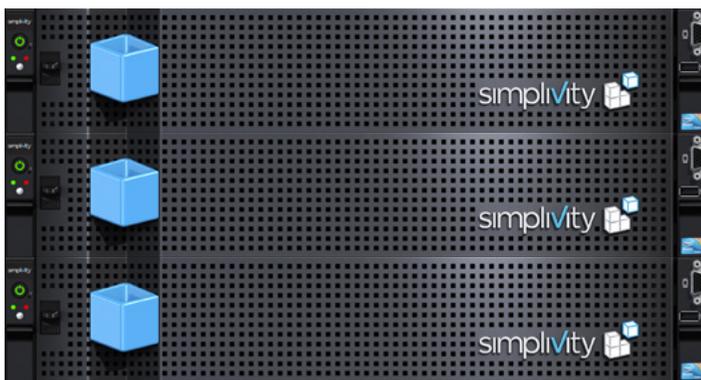
Many federal government agencies, system integrators and contractors are constrained by legacy IT systems that aren't well suited for collecting, processing, analyzing and protecting massive CDM datasets at scale. Siloed IT architectures, composed of independent compute, storage and data protection solutions are inherently complex and costly. Each platform consumes power, cooling and space and supports a distinct administrative interface. Deploying new applications or scaling services can be a manually intensive, time-consuming proposition involving a number of different platforms, management interfaces, and operations teams.

Containing CDM Cost and Complexity

OmniStack eliminates CDM infrastructure cost and complexity by consolidating a variety of IT functions (compute, storage, data backup and recovery, etc.) onto commodity virtualized x86 hardware, eliminating point products and inefficient siloed IT architectures. The solution is distinguished from other converged infrastructure solutions by three unique attributes: accelerated data efficiency, built-in data protection functionality and global unified management capabilities.

Accelerated Data Efficiency

OmniStack performs inline data deduplication, compression and optimization on all data at inception across all phases of the data lifecycle, all handled with fine data granularity of just 4KB-8KB. On average, SimpliVity customers achieve 40:1 data efficiency while simultaneously increasing application performance. OmniStack's inherent data efficiencies deliver radical cost savings and fundamental performance advantages for data-intensive programs like CDM.



Many CDM system integrators and prime contractors leverage COTS big data and analytics solutions like Splunk Enterprise to aggregate, analyze and visualize CDM security data.

OmniStack meets the stringent performance, resiliency and scalability demands imposed by Splunk Enterprise and other big data and analytics solutions.

Built-In Data Protection

OmniStack includes native data backup and recovery functionality, enabling robust protection for critical CDM data, while eliminating the need for special-purpose data protection solutions. OmniStack's inherent data efficiencies minimize I/O and WAN traffic, reducing backup and restore times from hours to minutes, and enabling IT teams to meet stringent CDM RPO/RTO goals.

Global Unified Management

OmniStack's VM-centric approach to management eliminates manually intensive, error-prone administrative tasks. System administrators are no longer required to manage LUNs and volumes; instead, they can manage all resources and workloads centrally, using familiar interfaces such as VMware vCenter and VMware vRealize Automation.

Key benefits of SimpliVity OmniStack for CDM

- **Superior Economics:** OmniStack reduces CAPEX by eliminating IT silos, consolidating technology platforms, and containing CDM data storage costs; and reduces OPEX by reducing power, cooling, rack space and system administration expenses.
- **Linear Scalability:** The SimpliVity solution features scale-out architecture that minimizes upfront investments and provides a high degree of flexibility and extensibility as agencies increase their network sensor capacity and expand their continuous diagnostic capabilities.
- **Increased Performance:** OmniStack offloads processor-intensive data handling functions onto special-purpose hardware, freeing up x86 resources, accelerating the performance of big data and analytics applications.
- **Accelerated IT Agility:** OmniStack's inherent data efficiencies and VM-centric management capabilities dramatically simplify operations and accelerate IT agility. System administrators can clone applications in just seconds, with a few mouse clicks.

For more information, visit:

www.simplivity.com

© 2015, SimpliVity. All rights reserved. Information described herein is furnished for informational use only, is subject to change without notice, and should not be construed as a guarantee, commitment, condition or offer by SimpliVity. SimpliVity, the SimpliVity logo, OmniCube, OmniStack, OmniCube Accelerator, CN-1200, CN-2000, CN-2200, CN-3000, CN-3400, CN-5000, CN-5400 and Data Virtualization Platform are trademarks or registered trademarks of SimpliVity Corporation in the United States and certain other countries. All other trademarks are the property of their respective owners.

J478-CDM Federal-SB-EN-1115