OmniStack™ Solution with Lenovo System x3650 M5

SimpliVity's mission is to simplify IT. The OmniStack Solution with Lenovo System x3650 M5 converges all IT infrastructure below the hypervisor into 2U building blocks on Lenovo servers. The solution assimilates eight to twelve core data center functions including the hypervisor, compute, storage, network switching, backup, replication, cloud gateway, caching, WAN optimization, real-time deduplication, and more. With three-fold TCO reduction, the OmniStack Integrated Solution with Lenovo System x servers delivers the best of both worlds-the enterprise-class performance, protection, and resiliency that today's organizations require, with the cloud economics businesses demand-for single site businesses to large-scale, multi-site Global 2000 enterprises.

SimpliVity's OmniStack technology consists of two main components—the OmniStack Data Virtualization Platform software and its revolutionary OmniStack Accelerator Card. SimpliVity's Data Virtualization Platform is SimpliVity's data architecture. It is a globally-aware file system with data optimization techniques that enables a single shared compute and storage resource pool across multiple sites, and provides highly-efficient data storage, management, and mobility. It abstracts data from its underlying hardware, shifting policies and management from infrastructure components to the application workload/virtual machine level. The OmniStack Accelerator Card is a purpose-built PCIe card that offloads global inline built-in deduplication, compression, and optimization processes to ensure primary CPU resources are available to serve business applications.

Together, SimpliVity and Lenovo offer a unique hyper-converged infrastructure solution to transform the data center. The solution improves efficiency and agility, and mitigates risk-all while delivering a three-fold reduction in total cost of ownership.

Benefits of OmniStack Integrated Solution with Lenovo System x Servers

Virtualization has significantly improved IT efficiency, yet workload mobility and performance are huge problems when the underlying data center infrastructure is not virtualized. IT organizations with legacy, siloed IT infrastructure typically have greater complexity, multiple management points, performance issues, and higher costs. Data centers are littered with too many appliances performing too many disparate functions, so it's no wonder IT professionals are struggling to do more with less.

Lenovo System x servers are workload-optimized for business critical applications. The Lenovo System x3650 M5 rack server combines built in industry-leading reliability and security with world-class performance. Together, SimpliVity and Lenovo provide:

1. **Accelerated Data Efficiency:** All data is deduplicated, compressed, and optimized inline, at inception, once and forever across all stages of the data lifecycle—without impacting performance. The OmniStack Accelerator Card manage data segments in 4-8K chucks and deduplicates redundant segments before data hits disk, eliminating unnecessary read/write I/O. SimpliVity customers enjoy an average of 40:1 data efficiency while also increasing application performance.

2. **Built-in Data Protection:** With OmniStack, data protection is built in and ultra efficient. OmniStack natively includes policy-based virtual machine-centric backup and WAN-optimized replication for disaster recovery, reducing backup and restore times from hours to minutes.

3. **Global Unified Management:** OmniStack provides policy-based VM-centric management and mobiltity to improve IT agility for single and multi-site deployments of all sizes. 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.

Use Cases

1. Data Center Consolidation

2. Remote Office/Branch Office and Multisite Central Management Projects

3. All-in-one IT modernization projects for broad sets of applications, including mission-critical applications

4. Backup and disaster recovery projects

5. VDI initiatives

6. Technology refresh projects

7. Data migration, as well as merger and acquisition projects

8. Development, test, and QA projects

About SimpliVity Corporation

SimpliVity is a pioneer in the hyperconverged infrastructure market, disrupting the status quo of complex and cumbersome legacy IT systems. SimpliVity's hyperconverged IT platform delivers enterprise-class performance and availability that today's IT leaders require, with the cloud economics their business demands. No other company has taken on the mega task of assimilating all IT elements below the hypervisor (8-12 disparate functions) into a simple 2U building block of x86 sharable resources to deliver unmatched IT simplicity, operational efficiency, and 3x TCO savings. SimpliVity's unique data virtualization architecture improves performance, protection and data efficiency, while also enabling global unified management from a single console. SimpliVity has revolutionized IT systems for hundreds of enterprises around the world. Headquartered in Westborough, Mass., the company has raised more than $276 million in venture capital and employs more than 500 worldwide. SimpliVity's business model is 100 percent indirect, and its solutions and professional services are available worldwide through its network of resellers and distributors.

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a $39 billion global Fortune 500 company and a leader in providing innovative consumer, commercial, and enterprise technology. Our portfolio of high-quality, secure products and services covers PCs (including the legendary Think and multimode YOGA brands), workstations, servers, storage, smart TVs and a family of mobile products like smartphones (including the Motorola brand), tablets and apps.

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