OmniStack Solution with Huawei FusionServer

SimpliVity OmniStack is the industry's first and only globally-federated hyperconverged infrastructure solution. Designed and optimized for modern virtual environments, OmniStack with Huawei FusionServer is a compact, scalable 2U rack-mounted building block that delivers server, storage, and storage networking services. It also delivers a complete set of advanced functionality that enables dramatic improvements to the efficiency, management, protection, and performance of virtualized workloads – all at a fraction of the cost and complexity of today's traditional infrastructure stack.

TCO Savings

By assimilating eight to twelve core data center functions, including the hypervisor, compute, storage, storage network switching, backup, replication, cloud gateway, caching, WAN optimization, real-time deduplication, and more, OmniStack delivers the performance, reliability, availability, security, efficiency, backup, and disaster recovery that enterprises expect, in a fully integrated, easy-to-deploy system. Furthermore, OmniStack consolidates these capabilities into a single x86 building block that scales out with additional nodes, resulting in up to threefold TCO savings.

Cloud Economics with Enterprise Capabilities

Enterprises today seek the agility, elasticity, and affordability promised by cloud computing. However, IT organizations also want the performance, reliability, and resiliency of on-premises infrastructure. OmniStack delivers both. Independent studies show that running virtual machines on on-premises SimpliVity hyperconverged infrastructure is 22% to 49% less expensive than running them in a comparable Amazon Web Services environment, when considering total costs over a three-year period.

OmniStack: Simplifying IT

Today's infrastructure complexity problem is caused by antiquated data architectures not suited for modern virtualized and cloud-integrated applications. SimpliVity hyperconverged infrastructure is powered by the OmniStack Virtual Controller, and the OmniStack Accelerator Card. OmniStack's enabling technology, the OmniStack Data Virtualization Platform, delivers three breakthrough innovations:

1. **Accelerated Data Efficiency:** On average, SimpliVity customers achieve 40:1 data efficiency while simultaneously increasing application performance. OmniStack, deduplicates, compresses, and optimizes all data inline, in real time, at inception, once and forever across all stages of the data lifecycle, globally.

Features and Benefits

Fully Integrated System: Combines x86 resources, storage, and storage networking in a single hyperconverged system. Simplifies management, and delivers greater cost efficiency and agility with increased visibility and control.

Peak and Predictable Performance: All-flash solution provides predictable and linear performance at near-wire speeds with reduced latency. Hardware-assisted inline deduplication, compression, and optimization minimize IO and network traffic, improving performance while delivering greater storage and bandwidth efficiency.

Scale In and Scale Out: Easily expand or shrink OmniStack configurations as your needs change. Each node supports a large number of fully protected VMs, with the networked collection of nodes at both local and remote sites managed as a single entity.

VM-Centricity and Mobility: Enables all actions, policies, and management at the VM level. Global unified management and integration with established administrative systems streamline operations and improve IT agility.

TCO Reduction: Eliminate the need to purchase multiple discrete components, optimize storage capacity with 40:1 data efficiency, and prevent over-provisioning for performance and capacity with on- demand expansion.

2. **Built-in Data Protection:** OmniStack has built-in highly efficient local and remote backup, delivering operational and disaster recovery. This enables full logical backups in just seconds, as well as RTOs of seconds to minutes and RPOs of minutes.

3. **Global Unified Management:** Manage data centers at the VM level globally, rather than at the LUN or share level—all from a single interface. The underlying hardware is uniquely abstracted from the hypervisor, providing VM-centric management and mobility of all data, including backups, moves, and clones.

SimpliVity OmniStack Solution with Huawei FusionServer RH2288H V3					
Huawei FusionServer RH2288H V3	Targeted Use Case	CPU Configuration	Memory (Usable)[1]	Storage Configuration	Effective Storage Capacity[2]
Large Enterprise All-Flash	Ultra high-performance workloads in the enterprise and cloud providers	Dual Intel E5-2600 v4 (Broadwell) 16-44 Cores	156–1436 GB	14 x 1.6TB SSD	20 – 40TB

Chassis Specifications	
Models	Huawei FusionServer RH2288H V3 Large Enterprise (All-Flash)
Network Connections	2 x 1GbE (RJ45) and 2 x 10GbE VIC (SFP+) Plus up to 2 additional NICs: 2 x 10 Gbe (SFP+), 2 x 1 Gbe (RJ45) or 4 x 1 Gbe (RJ45)
Power Supply	Dual Redundant 1200W @ 120/240VAC
Physical Dimensions	3.44"H x 17.5"W x 29.75"D
Weight	72.3 lbs (32.8 kg)

[1] Usable RAM represents estimated memory resources available to virtual applications.

[2] Effective capacity varies by environment, and is a function of realized deduplication and compression rates. The capacities mentioned above offer a conservative range based on compression and deduplication rates found in standard, primary storage use cases.

For more information, visit: www.simplivity.com