OmniStack™

INTEGRATED SOLUTION WITH CISCO UCS C240 M3 SERIES SERVER

Hyperconverged Infrastructure for the Software-Defined Data Center

Achieve cloud economics, efficiency, and agility without compromising enterprise-class performance, protection, disaster recovery, and functionality.

OmniStack with Cisco Unified Compute System

SimpliVity's OmniStack is the industry's first and only globally-unified and hyperconverged solution that supports Cisco Unified Computing Systems. Designed and optimized for the virtual environment, each OmniStack solution delivers server, storage, and networking services, as well as dramatic improvements to the management, protection, and performance of virtualized workloads—all at a fraction of the cost and extreme reduction in complexity compared to today's traditional infrastructure technologies.
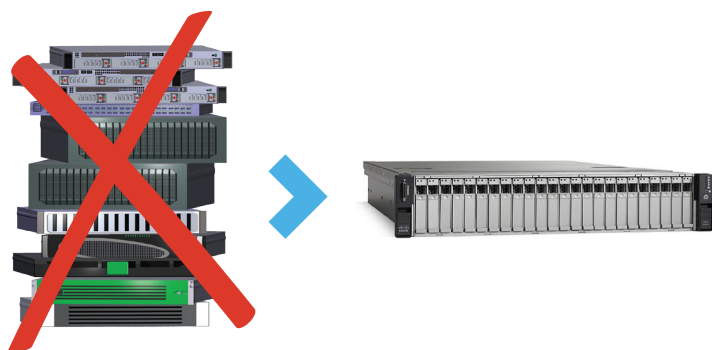
The Cisco UCS C240 M3 Series Rack-Mount Server combined with the OmniStack integrated solution is a powerful infrastructure designed for high availability with no single point of failure. The OmniStack solution is designed to handle diverse workloads and radically simplify the way servers and networks are deployed and managed today.

TCO Savings

By replacing the cluttered infrastructure stack, OmniStack with Cisco UCS delivers the performance, reliability, availability, security, data protection, and disaster recovery that enterprises rely on without the hassle of third-party vendors. The solution takes it a step further by consolidating these benefits in one hyperconverged device resulting in up to 3x TCO savings.

Cloud Economics with Enterprise Capabilities

Customers want simplicity without compromising capabilities. What's required is a combination of x86 based, cloud economics, without compromising enterprise capabilities: data protection, data efficiency, performance and global unified management. SimpliVity is the first and only company to deliver the best of both worlds: cloud economics and enterprise capabilities.

Features and Benefits

10GB UNIFIED NETWORK FABRIC: Lowlatency, lossless, wire-once deployment, fewer interface cards, cables, and ports to maintain.

INTEL XEON X86 PROCESSOR PRODUCT FAMILIES: Powerful, Dual CPUx86 configurations deliver an outstanding combination of performance, flexibility, and efficiency gains.

OMNISTACK ACCELERATOR CARD: Data processes at near-wire speeds, reduction in latency due to high speed, high availability NVRAM, native FPGAs for efficient architectures.

DATA VIRTUALIZATION PLATFORM: All data is deduplicated, compressed and optimized inline, at inception, once and forever across all stages of the data lifecycle—without impacting performance.

DATA PROTECTION: Policy engine allows for VM-level backup and replication.

VM-CENTRIC MANAGEMENT: All actions, policies, and management are on a per VM basis.

GLOBAL UNIFIED MANAGEMENT: One user manages entire global infrastructure spanning one or multiple sites through one, simple interface.

FULLY INTEGRATED SYSTEM: combines Cisco UCS C-Series Rack-Mount Servers with networking and storage access in a single hyperconverged system that simplifies management and delivers greater cost efficiency and agility with increased visibility and control.

The OmniStack Global Unified Management

Deploying two or more OmniStack systems creates a global federation, a massively-scalable pool of shared resources that enables efficient data movement, extensive scalability, and enterprise-class system availability. OmniStack Integrated Solution with Cisco UCS C240 M3 Rack-Mount Servers enables you to simultaneously improve operations, management, and data protection of your VM environment, while radically simplifying IT infrastructure.

The Technology: Attacking Complexity At The Source

At the root of today's infrastructure complexity problem is an antiquated data architecture that is not suited for today's virtualized and cloud-integrated applications. OmniStack solves the data problem with its Data Virtualization Platform.

OmniStack incorporates three breakthrough innovations:

1. Hyperconvergence: A single software stack that combines multiple traditional IT infrastructure functions in a single shared x86 resource pool.

2. Data Virtualization Platform: The core technology that performs inline data deduplication, compression and optimization on all data at inception, enabling data granularity of just 4KB-8KB blocks. The Data Virtualization Platform is powered by the SimpliVity PCIe Accelerator card that offloads compute-intensive tasks to deliver enterprise-class performance.

3. Global Unified Management: The collective OmniStack with Cisco UCS C-Series Systems form an intelligent network of collaborative systems managing billions of fine-grained data elements. It enables data movement and sharing in multi-node and multi-site environments, as well as global VM-centric management. A single administrator manages the entire global infrastructure through a single pane of glass.

OmniStack with Cisco UCS C-Series Systems

The flexible architecture of OmniStack and Cisco allows a range of models that apply to a broad range of environments and use cases.

Specifications	SimpliVity OmniStack Integrated Solution for Cisco UCS C-Series Systems
Capacity	
Raw Capacity	6 x 400 GB SSD 18 x 1 TB HDD
Effective Capacity	12 - 25 TB*
CPU	16 - 24 Cores
RAM Usable Capacity	256GB - 651GB**
Network Connections	4 X 1GbE (RJ45) plus either 2 X 10GbE (SFP+) or 2 x 10GbE (10GBaseT)
Physical Dimensions	Standard 2U Rack-Mounted Chassis
	3.43"H x 17.54"W x 28.04"D
Weight	60 LBs
Power	Dual Redundant 1200W

* Effective capacity varies by environment, and is a function of the 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.
** RAM Usable capacity represents estimated memory resources available to virtual applications.

SimpliVity offers world-class support on a 24x7x365 basis. Contact **support@simplivity.com**

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