OmniStack Solution with HUAWEI FusionServer RH2288H V3

Huawei's hyperconverged infrastructure solution based on industry-leading SimpliVity OmniStack, meets the stringent performance, scalability and agility demands of today's data-intensive, highly virtualized IT environments.

One Appliance, Complete Hyperconvergence

SimpliVity OmniStack converges all IT infrastructure and advanced data series for virtualized workloads onto Huawei FusionServer RH2288H V3. The compact solution assimilates storage, compute, hypervisor, storage networking, real-time deduplication, compression, and optimization along with comprehensive data management, data mobility, built-in data protection, and automated disaster recovery capabilities.

Cloud Economics with Enterprise Performance and Reliability

With 3X total cost of ownership reduction, OmniStack with Huawei FusionServer RH2288H V3 delivers the superior data services including enterprise-class performance, built-in data protection and resiliency today's organizations require, with the cloud economics and agility businesses demand.

OmniStack with Huawei FusionServer RH2288H V3 reduces CAPEX by eliminating IT silos, converging technology stacks and optimizing storage capacity. And it reduces OPEX by containing power, cooling, rack-space and system administration expenses.

A scale-out architecture minimizes upfront investments and tightly aligns expenses with business demands. OmniStack nodes are installed in an incremental fashion to accommodate growth or support new applications or services. Two or more nodes can be federated to create a massively scalable pool of shared resources, administered as a cohesive system, with a single administrative interface.

VM-Centric Design

OmniStack with Huawei FusionServer RH2288H V3 was designed from the ground up for virtualized workloads. The solution's inherent data efficiencies and VM-centric management capabilities dramatically simplify operations and boost IT service agility. With OmniStack, system administrators can clone, move, backup and restore VMs in just seconds with two or three mouse clicks, using tools they already know how to use.

Features and Benefits

Fully Integrated System: Comprehensive solution combines Huawei FusionServer RH2288H V3 rack-mount servers with SimpliVity OmniStack hyperconverged infrastructure for superior economics, performance and resiliency.

10GE Unified Network Fabric: Low latency, lossless, wire-once deployment means fewer interface cards, cables and ports to maintain.

Intel® Xeon® x86 Processors: Powerful, dual CPU x86 configurations ensure high performance, flexibility and efficiency.

OmniStack Accelerator Card: Dedicated PCIe card offloads processor-intensive data handling functions freeing up x86 resources for business applications.

Broad Product Portfolio: A variety of configurations address a wide range of deployments and use cases.

For more information, contact your Huawei business partner or sales representative.

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Intel® Inside. Powerful Solution Outside.

Huawei FusionServer RH2288H V3

The HUAWEI FusionServer RH2288H V3 is a new- generation 2U dual-socket rack server. It provides flexible resource expansion capabilities as well as high computing performance. It is an ideal choice for Internet, big data, cloud computing, high-performance computing (HPC), and enterprise key applications.

- Provides large local storage space to quickly respond to fast data increase.
- Supports up to 24 NVMe SSDs to turbo-charge the storage I/O performance.
- Supports up to two high-performance processors to implement efficient computing.
- Ensures high energy efficiency by using intelligent fine-grained power control technologies.
- Provides a touchscreen management panel to facilitate management.

OmniStack with Huawei FusionServer RH2288H V3

OmniStack's modern data architecture is distinguished from other converged infrastructure solutions by three unique innovations:

1. Guaranteed Data Efficiency: Only SimpliVity deduplicates, compresses, and optimizes all data at inception globally, eliminating unnecessary data processing, improving application performance, with guaranteed 90% capacity savings across storage and backup. On average, customers achieve 40:1 data efficiency while simultaneously increasing application performance.

2. Built-in Resiliency, Backup and Disaster Recovery: Only SimpliVity delivers built-in backup and bandwidth-efficient replication that eliminates the use of legacy data protection solutions and restores data in seconds. OmniStack's inherent data efficiencies minimize disk I/O and network traffic, reducing backup and restoration times from hours to minutes—even over bandwidth-constrained wide area network links.

3. Global VM-centric Management and Mobility: Only SimpliVity delivers policy-based, VM-centric management abstracted from the underlying hardware that simplifies day-to-day operations and enables seamless data mobility to make development teams and end-users more productive.

Config. Number	Targeted Use Case	CPU Configuration	Memory Options	Storage Configuration	Effective Capacity
1	Ultra high-performance workloads in the enterprise and cloud providers	Dual Intel E5-2600v4 (Broadwell) 8-44 Cores	256-1536GB	14x1.6TB SSD	20-40TB

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