HPE SimpliVity 380 Gen11 Node (S2V30A)

What's new

- HPE SimpliVity with HPE GreenLake for Private Cloud Business Edition — offered on the HPE GreenLake edge-to-cloud platform. Simplify Private Cloud management with a cloud operational experience.
- HPE SimpliVity 380 Gen11 nodes with new 4th Generation Intel Xeon Sapphire Rapids CPUs and 3.84 TB SATA SSDs.
- Support for Broadcom R216i-p and NS204i-p boot drive controllers.
- Support for Microchip SR932i data drive controllers.
- NVIDIA® L4, A16, L40 and Intel Data Center GPU Max 1100 GPU's for next generation, intelligent workloads.
- HPE SimpliVity 380 Gen11 can achieve 43 TB with only sixteen 3.84 TB SSDs.
- HPE SimpliVity 380 Gen11 will support single and dual disk resiliency as deployment option similar to other HPE SimpliVity software optimized nodes.

Overview

Is complexity in your data center slowing you down?

HPE SimpliVity 380 gives IT organizations the agility and economics of the cloud with the control and governance of on-premises IT and HPE GreenLake for Private Cloud Business Edition integration. It delivers a powerhouse Hyperconverged Solution optimized to support the world's most efficient and resilient data centers.

This solution dramatically simplifies IT by combining infrastructure and advanced data services for virtualized workloads on a single device. Delivered on HPE ProLiant DL380 servers, a compact, scalable, 2U rack-mounted building block that consolidates server, storage, and storage networking services. By delivering a complete set of advanced functionalities, HPE SimpliVity solutions enable dramatic improvements in the operational efficiency, management, protection, and performance for general purpose virtualized workloads for a fraction of the cost and complexity compared to today's traditional infrastructure stack.

Powered by 4th Gen Intel® Xeon® Scalable processors with up to 60 cores, 8 TB of memory, as well as increased memory bandwidth and high-speed PCIe Gen5 I/O, the HPE ProLiant DL380 Gen11 server is a perfect solution for HPE SimpliVity 380 Gen 11 platform.

The success that HPE SimpliVity 380 Gen10 platform brought to HPE SimpliVity Hyperconverged Infrastructure is only enhanced by the addition to the HPE SimpliVity 380 Gen 11 platform due to the higher performing 4th Generation Intel Scalable Xeon processors. For more details, please refer to the HPE SimpliVity hyperconverged infrastructure for VMware vSphere® technical white paper.

Features

Complete Hyperconvergence in a Fully Integrated System

The HPE SimpliVity 380 combines x86 resources, storage, and storage networking in a single hyperconverged system with advanced functionality.

Simplifies management and delivers outstanding cost efficiency and agility.

Increased visibility and control of the entire virtualized environment via unified management.

Delivers orchestrated, simultaneous deployment and upgrades so you can deploy more simply and respond to business needs faster.

Unify virtual machines and infrastructure tasks to reduce virtual machine (VM) sprawl and over-provisioning.

Peak and Predictable Performance

The HPE SimpliVity 380 delivers an all-flash solution delivering predictable and near linear performance at near-wire speeds while reducing latency.

In-line deduplication, compression, and optimization helps reduce I/O and network traffic while dramatically shrinking backup window requirements.

On Demand Scale-in and Scale-out

The HPE SimpliVity 380 can easily expand or contract configurations as your needs change.

Each node supports a large number of fully protected virtual machines (VMs).

A networked collection of nodes at both local and remote sites are managed as a single entity.

Flexibility to expand node storage and add a second CPU (with additional memory) to 1P nodes within the field.

Federations scale up to 96 nodes. Heterogenous federation support (clusters of HPE SimpliVity 380 Gen10/Gen 10 Plus/Gen 11 in the same cluster) and legacy HPE SimpliVity can be federated with clusters of HPE SimpliVity Gen 10/Gen 10 G/HPE SimpliVity 380 Gen10 Plus/SimpliVity 380 Gen 11 in different clusters. In a single Federation, you can also have separate clusters of Intel® and AMD nodes.

Advanced Data Services

The HPE SimpliVity 380 delivers always-on deduplication and compression to significantly reduce capacity utilization.

Built-in resiliency, backup, and disaster recovery for enterprise-grade data protection.

Policy-based, virtual machine (VM) centric management to streamline operations.

HPE SimpliVity RapidDR is a Disaster Recovery (DR) orchestration tool for HPE SimpliVity platforms to simplify, automate, and accelerate off-site DR for rapid recovery of applications.

Optional Data at Rest Encryption (DARE) support.

Table 1. HPE SimpliVity 380 Gen 11 technical specifications

Technical specifications	HPE SimpliVity 380 Gen11 Node
Product Number	S2V30A
Number of processors	1 or 2 CPUs based on 4th Gen Intel Xeon Scalable processors, depending on configuration
Processor core available	8 to 60 cores per processor, depending on processor selected, minimum 16 cores on 380 x6 SSD node required, minimum 22 cores on 380 x8 SSD, x9 SSD, x12 SSD, x16 SSD, SSD nodes are required. For detailed descriptions reference the QuickSpecs
Memory	128 GB to 8,192 GB per node, depending on configuration, for detailed descriptions reference the QuickSpecs
Boot Controller	Choice of boot controller NS204i-u (P48183-B21) MR216i-p (P47785-B21)
Data Controller	Choice of boot controller SR932i-p (P47184-B21)
Storage	1. Select one storage kit for the node 2. Choose read intensive drive configuration Read Intensive (Choice ither of 1.92TB (S1J88A) or 3.84TB (S1J89A) or following models: Qty 6 of 1.92TB (S1J88A) for HPE SimpliVity 380 6x SSD Qty 8 of 1.92TB (S1J88A) for HPE SimpliVity 380 8x SSD Qty 9 of 1.92TB (S1J88A) for HPE SimpliVity 380 9x SSDz Qty 6 of 3.84TB (S1J89A) for HPE SimpliVity 380 6x SSD Qty 8 of 3.84TB (S1J89A) for HPE SimpliVity 380 8x SSD Qty 9 of 3.84TB (S1J89A) for HPE SimpliVity 380 9x SSD Qty 12 of 3.84TB (S1J89A) for HPE SimpliVity 380 12x SSD Qty 16 of 3.84TB (S1J89A) for HPE SimpliVity 380 16x SSD For detailed descriptions reference the QuickSpecs
Network controller	1 Gb, 10 Gb, 10/25 Gb, 100 Gb, or 200 Gb, in PCIe adapter or OCP 3.0 form factor, for detailed descriptions reference the QuickSpecs
Power	HPE 800W FS Plat Ht Plg LH PS Kit HPE 1000W FS Ti Ht Plg PS Kit HPE 1600W FS Plat Ht Plg LH PS Kit HPE 1600W FS -48VDC Ht Plg PS Kit HPE 1800W-2200W FS Ti Ht Plg PS Kit For detailed descriptions reference the QuickSpecs
Form factor	2U
Warranty	Server Warranty includes 3-year parts, 3-year labor, 3-year on-site support with next business day response. Additional information regarding worldwide limited warranty and technical support is available at: techlibrary.hpe.com/us/en/enterprise/servers/warranty/
Product Availability	HPE SimpliVity Gen 11 can now be quoted through HPE

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services
Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services
HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services
Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services
Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services
Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere — data centers, multi-clouds, and edges — with one unified operating model, on-premises, fully managed in a pay per use model*.

If you are looking for more services, like **IT financing solutions**, please explore them here.

*May be subject to minimums or reserve capacity may apply

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