

HPE SimpliVity 380



Features and benefits

- Fully integrated system:** Combines x86 resources, storage, and storage networking in a single hyperconverged system. Simplifies management and delivers great cost efficiency and agility with increased visibility and control.
- Peak and predictable performance:** The all-flash solution provides predictable and linear performance at near-wire speeds with reduced latency. Hardware-assisted inline deduplication, compression, and optimization helps minimize I/O and network traffic, improving performance while delivering great storage and bandwidth efficiency.
- Scale in and scale out:** Easily expand or shrink configurations as your needs change. Each node supports a large number of fully protected virtual machines (VMs), with the networked collection of nodes at both local and remote sites managed as a single entity.

For IT leaders struggling to achieve the agility and economics of the cloud, with the control and governance of on-premises IT, HPE SimpliVity 380 delivers a powerhouse hyperconverged solution—running some of the world’s most efficient and resilient data centers. A market and customer satisfaction leader, the solution dramatically simplifies IT by combining all infrastructure and advanced data services for virtualized workloads onto the bestselling server platform in the market.¹

HPE SimpliVity 380, available on HPE ProLiant DL380 Gen9 Servers, 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—at a fraction of the cost and complexity of today’s traditional infrastructure stack.

TCO savings

HPE SimpliVity 380 assimilates 8 to 12 core data center functions such as the hypervisor, compute, storage, storage network switching, backup, replication, cloud gateway, caching, WAN optimization, real-time deduplication, and more. It delivers the performance, reliability, availability, security, efficiency, backup, and disaster recovery that enterprises expect, in a fully integrated, easy-to-deploy system. Furthermore, the HPE SimpliVity solution consolidates these capabilities into a single x86 building block that scales out with additional nodes, resulting in up to three-fold TCO savings.²

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. HPE SimpliVity 380 delivers both. Independent studies show that running virtual machines on on-premises HPE 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.³

¹ IDC Server Tracker, CQ1 2016

² The Total Economic Impact Of HPE SimpliVity hyperconverged infrastructure, Forrester Consulting, November 2015

³ Is Hyperconverged Cost-Competitive with the Cloud? Evaluator Group, February 2016

Data sheet

- **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.
- **Dramatic TCO reduction:** Drastically reduce the need to purchase multiple discrete components, optimize storage capacity with guaranteed 10:1 data efficiency, and prevent over-provisioning for performance and capacity with on-demand expansion.

Simplifying IT

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

1. **Guaranteed data efficiency:** Only HPE SimpliVity hyperconverged infrastructure deduplicates, compresses, and helps optimize all data globally, improving performance, guaranteeing 90% capacity savings across storage and backup.⁴
2. **Built-in resiliency and data protection:** Only HPE SimpliVity delivers a resilient hyperconverged infrastructure platform, including built-in backup and replication that helps eliminate the use of legacy solutions.
3. **Global VM-centric management and mobility:** Only HPE SimpliVity delivers policy-based, VM-centric management to simplify day-to-day operations and enable data mobility, increasing productivity.

Table 1. HPE SimpliVity 380 servers specifications

Model	CPU configuration	Memory (usable)	Storage configuration	Effective storage capacity*	RAID configuration
Small Enterprise all-flash	Dual Intel® Xeon® E5-2600 v4 (Broadwell) 16-44 cores	187-1467 GB	5 x 1.9 TB SSD	6-12 TB	RAID 5
Medium Enterprise all-flash	Dual Intel Xeon E5-2600 v4 (Broadwell) 16-44 cores	148-1428 GB	9 x 1.9 TB SSD	12-25 TB	RAID 6
Large Enterprise all-flash	Dual Intel Xeon E5-2600 v4 (Broadwell) 16-44 cores	142-1422 GB	12 x 1.9 TB SSD	20-40 TB	RAID 6

* 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.

Table 2. Chassis specifications

Network connections	2 x 10GbE (SFP+) and 2 x 1GbE (RJ45) up to 1 additional NICs on dual CPU; 2 x 10GbE (SFP+), 2 x 1GbE (RJ45) or 4 x 1GbE (RJ45)
Power supply	Dual 800 W 100/240 VAC @ 50/60 Hz (auto-sensing)
Physical dimensions	3.44 in. (8.73 cm) x 26.75 in. (67.94 cm) x 17.54 in. (44.54 cm) (height x depth x width)
Weight	Small Enterprise: 24.8 lb (11.7 kg) Medium Enterprise: 26.4 lb (12 kg) Large Enterprise: 27.7 lb (12.5 kg)

Learn more at
hpe.com/info/simplivity

⁴ See [TechValidate Research](#) and [SimpliVity HyperGuarantee](#)



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