

INTELLIGENT HYPERCONVERGED INFRASTRUCTURE

HPE SimpliVity

HPE SimpliVity

An intelligent, hyperconverged platform that streamlines IT operations by combining IT infrastructure, advanced data services, and AI-driven operations into a single, integrated solution.

Advanced data services

- Streamline operations with policy-based, VM-centric management
- Protect data with built-in backup, resiliency, and disaster recovery
- Reduce capacity utilization by up to 10x guaranteed with always-on deduplication and compression¹

Global intelligence with HPE InfoSight

- Visibility to system details at the federation, cluster, and node level
- Predictive analytics provides insights into historical cluster capacity consumption and prediction to full
- Proactive wellness alerts alleviate support issues and reduces operational expenses with automated alerts and case creation
- VM resource utilization provides visibility into VM neighbors and insights into VM storage utilization to identify high consuming VMs and implement corrective actions

Secondary backup with HPE StoreOnce

- Managed from your HPE SimpliVity hypervisor UI
- Simple, three-click backups
- 20:1 deduplication ratios²
- Up to 7x lower cost³

Multiplatform strategy

HPE SimpliVity 380

- Ideal for storage intensive workloads
- Multiple all flash, hybrid and mixed-use configurations
- Hardware accelerated or software-optimized always-on deduplication and compression
- General purpose and VDI workloads
- Support for latest 2nd generation high performance Intel® Xeon® Scalable processors

HPE SimpliVity 325

- Compact yet powerful, ideal for VDI, ROBO/edge, and SMB/Midmarket use cases
- Highly dense, 1U, single 64-core AMD EPYC processor system delivers twice the desktop density vs. alternatives⁴
- 50% lower dollar per desktop with peak and predictable performance vs. alternatives⁵
- Full HPE SimpliVity software functionality

¹ HPE SimpliVity HyperGuarantee

^{2,3} HPE Internal testing, 2019

^{4,5} HPE internal testing, April 2020

⁶ Worldwide and U.S. Enterprise Storage Systems Forecast, May 2019, IDC #US45023719

⁷ Forecast Analysis: Integrated Systems, Worldwide, Gartner, July 2019

⁸ Forrester Report: The total economic impact of HPE SimpliVity hyperconverged infrastructure, May 2019

⁹ Datacenters leverage HPE SimpliVity to Drive Operational Simplicity, Improved Performance, and Other Critical Datacenter Benefits, August 2018, IDC #US44216718

¹⁰ techvalidate.com/tvid/77f-576-4f3

Reimagine hyperconverged: Software-defined to AI-driven

A NEW ERA IN HCI

IT is under pressure to keep up with the demands of the digital enterprise. Customers with virtualized environments seek to address complexity in the data center and at distributed sites (edge, ROBO). They want to simplify by streamlining overall operations, improving efficiency, overcoming rigid architectures and processes, and finding new ways to innovate and grow.

Since debuting over a decade ago, hyperconverged infrastructure (HCI) remains a popular choice for IT transformation. IDC estimates that sales of hyperconverged systems grew 70% in 2018 to nearly \$6.6 billion in total value and are poised to growth at a 25.2% CAGR through 2022.⁶ According to Gartner, the HCIS appliance market is expected to reach \$8.5 billion in revenue by 2023.⁷

HPE SimpliVity has always been about simplifying the software-defined IT experience by streamlining IT operations, enabling VM management and mobility, and providing built-in data efficiency and data protection.

Today, we're entering a new era for hyperconverged infrastructure—one that shifts the focus from software-defined infrastructure to AI-driven operations. With groundbreaking capabilities and the introduction of HPE InfoSight for HPE SimpliVity, HCI has risen to a new level of performance. One that is key to creating an intelligent foundation for your private cloud.

INTELLIGENTLY SIMPLE

Intelligent HCI simplifies deployment, management, scale, and troubleshooting through software-defined infrastructure, policy-based automation, unified management, and AI.

All-in-One system

- An all-HPE solution engineered and fully integrated for HPE SimpliVity

- Start small and scale as your business grows
- Save costs with smaller footprint, power/cooling, space, and licensing
- Reduce costs by 69%⁸

Global unified management

- Centrally manage data center and edge computing resources from a single interface, including global federations, infrastructure, hypervisor, and data protection
- Manage VMs and seamlessly move data across sites using the intuitive and familiar VMware vCenter[®]
- Role-based access for backup users to search for and restore crash consistent backups
- Increase time to spend on innovation and new projects by 91%⁹

One-click upgrades

- Simplify lifecycle management with orchestrated, one-click software, hypervisor, and firmware upgrades

Rapid deployment and zero-downtime refresh cycles

- Rapidly deploy and scale hyperconverged building blocks to meet changing demands
- Deploy virtualized workloads quickly and easily across your entire environment, including SQL Server, VDI, Collaboration, DevOps, and Docker
- 85% of customers see dramatic application performance improvement¹⁰
- Flexibly add or remove modular systems non-disruptively to meet business needs

Automated tuning

- Always optimal performance, efficiency, resiliency without knobs or tradeoffs

Solution brief

HPE SimpliVity 2600

- Ideal for compute intensive workloads
- High density server for space constrained environments
- Highest GPU per rack unit (RU) density
- Software optimized for always-on deduplication and compression
- General purpose and VDI workloads
- Support for latest 2nd generation high performance Intel Xeon Scalable processors

Mixed federation strategy

- Mix clusters within the same federation, e.g., HPE SimpliVity 380 at the core data center, HPE SimpliVity 380, 325, or 2600 at the edge

High-end graphics support

High-end graphics virtualization is supported by NVIDIA® GPUs.

LEARN MORE AT

hpe.com/info/simplivity

¹¹ HPE data analysis: The average % of cases auto-opened and auto-closed with solution provided for calendar year 2019 was 86.9%, December 2019

^{12, 13} HPE SimpliVity HyperGuarantee

¹⁴ Based on external firm conducting cybersecurity penetration testing of a range of server products from a range of manufacturers, May 2017

¹⁵ HPE internal testing, April 2020

¹⁶ Login VSI is the de facto IT-industry standard in VDI performance load testing and benchmarking

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**Hewlett Packard
Enterprise**

Global Intelligence

- HPE InfoSight uses telemetry and machine learning to equip HPE SimpliVity environments with the ability to predict and prevent infrastructure problems before they happen
- Features include system details at the federation, cluster, and node level, predictive analytics for insights into capacity consumption and predictions to full, proactive wellness alerts to alleviate support
- 86% of problems diagnosed before you become aware of an issue¹¹

HYPEREFFICIENT

HPE SimpliVity is so remarkably efficient, it's guaranteed. Plus, we offer built-in backup, DR, and secondary storage—no third parties required.

Superior data efficiency

- All VM data is globally deduplicated, at inception—only unique data is written to disk—resulting in superior capacity savings and real cost savings for you
- 90% (or 10x) capacity savings across storage and backup combined, guaranteed¹²

Data protection your way

- Mitigate data loss, collapse the stack, and remove silos with built-in backup, resiliency, and disaster recovery (DR)
- Back up or recover a 1 TB VM in 60 seconds or less¹³
- Reduce complexity, cost, and risk with HPE StoreOnce for HPE SimpliVity, an on-premises, secondary backup solution for customers who require their backups to reside outside the federation
- Mitigate ransomware risk by providing disaster recovery protection across primary and secondary sites with integrated and automated HPE SimpliVity RapidDR

EDGE OPTIMIZED

HPE SimpliVity is especially tuned for edge and ROBO deployments. Reduce complexity and lower overhead for manufacturing sites, retail sites, as well as small and mid-market data centers.

- Achieve high availability in a small footprint with only two nodes
- Centralized management simplifies edge site control where staff resources are scarce
- Built-in backup and automated, edge to core, off-site failover for disaster recovery

HPE SIMPLIVITY PORTFOLIO

The HPE SimpliVity portfolio intelligently simplifies IT by combining AI, infrastructure, and advanced data services for virtualized workloads—into one, simple solution.

Based on HPE ProLiant or HPE Apollo-based servers, this fully integrated, all-HPE solution, engineered and optimized for HPE HCI. Delivered in single, high value building blocks, start small and scale to 16 nodes per cluster/96 nodes per federation and for large ROBO environments, 48 clusters per federation. For campus-scale deployments, 16-node stretch clusters are available.

HPE SIMPLIVITY 380

HPE SimpliVity 380 is based on the HPE ProLiant DL380 server, and is part of the world's most secure industry-standard server portfolio.¹⁴

Ideal for high-performance, storage-intensive workloads, the solution is available with either hardware accelerated or software-optimized data efficiency capabilities. It includes all flash or hybrid flash storage, easy management, robust data efficiency, and built-in data protection—all at a very attractive price point.

HPE SIMPLIVITY 325

The HPE SimpliVity 325 provides full software capabilities, security and performance in a highly dense, 1U model. The most compact solution in the portfolio, it includes a single, 64-core AMD EPYC processor, delivering twice the desktop density and half the cost of previous models.¹⁵ Built on the HPE ProLiant DL325 Gen10 server platform with all-flash storage, the solution is ideal for VDI, ROBO/edge, and SMB/Midmarket customers.

HPE SIMPLIVITY 2600

The HPE SimpliVity 2600 is an ideal solution for edge and VDI workloads and is based on HPE Apollo 2000 servers. It's optimized for environments that require higher density nodes. And is the first to deliver consistent performance with software-enabled dedupe and compression and has been tested and validated by HPE and Login VSI.¹⁶

SERVICES

With access to new self-serve tools, expert advice, and an enhanced support call experience, HPE Proactive Care for HPE SimpliVity can give you the support experience your IT and business need.

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