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 compression

Global Intelligence with HPE InfoSight for HPE SimpliVity
- 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 alleviates 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 for HPE SimpliVity
- Managed from your HPE SimpliVity hypervisor UI
- Simple, 3 click backups
- 20:1 deduplication ratios
- Up to 7X lower cost

Multiplatform strategy
HPE SimpliVity 380
- Ideal for storage intensive workloads
- Multiple all-flash configuration options, including backup and archive hybrid flash node
- Hardware accelerated or software optimized always-on deduplication and compression

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 performance
- 30% lower dollar per desktop with peak and predictable performance vs alternatives
- Full HPE SimpliVity software functionality

INTELLIGENTLY SIMPLE

Inelligent HCl 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%

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%

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
- 88% of users see dramatic application performance improvement
- Flexibly add or remove modular systems non-disruptively to meet business needs

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

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).

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.

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. According to Gartner, the HCIS appliance market is expected to reach $8.5 billion in revenue by 2023.

HPE SimpliVity has risen to a new level of performance. One that is key to creating an intelligent foundation for your private cloud.
**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
- Edge and VDI workloads

**Mixed federation strategy**
- Mx 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.

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**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 issue

**HYPER EFFICIENT**
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, guaranteed

**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 less
- 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 Apollo-based servers, this fully integrated, all-HPE solution, engineered and optimized for HPE HCI. Delivered in single, high value building blocks, starts 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**
The HPE SimpliVity 380 is based on the HPE ProLiant DL380 server, and is part of the world’s most secure industry-standard server portfolio. 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 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 than previous models. 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.

**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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