INTELLIGENT HYPERCONVERGED INFRASTRUCTURE
HPE SimpliVity with Composable Fabric

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 grow 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 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%

HPE Composable Fabric
• HPE SimpliVity offers not only software-defined compute and storage but HPE Composable Fabric networking as well
• HPE SimpliVity with Composable Fabric includes an intent-based networking fabric that dynamically allocates bandwidth based on application awareness and automation
• The fabric adjusts in real time to the needs of specific traffic types and data needs, enabling the creation and enforcement of application-level service-level agreements (SLAs)

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® or Microsoft System Center Virtual Machine Manager interface
• 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 customers 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

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 resolved 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 backups reside outside the federation
- Provide 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, 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.