INTELLIGENT HYPERCONVERGED INFRASTRUCTURE
HPE SimpliVity

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 debutting 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 HCI 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%

Global unified management
• Centralize 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
• 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 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

1 HPE SimpliVity HyperGuarantee
2 HPE Internal testing, 2019
4 Forecast Analysis: Integrated Systems, Worldwide, Gartner, July 2019
5 Forrester Report: The Total Economic Impact of HPE SimpliVity Hyperconverged Infrastructure. May 2019
6 hpe.com/link/Content/DO/7HPC9780946742.pdf, IDC, August 2018
**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.\(^1\)

**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.\(^6\)

**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.\(^9\)
- 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.

**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 and 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**
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.\(^10\)

Ideal for high performance, storage intensive workloads, this 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 security and performance in a highly dense, 1U model—and has the smallest footprint in the portfolio. It includes an AMD EPYC™ single CPU processor, all-flash storage and is built on the HPE ProLiant DL325 Gen10 server platform, ideal for ROBO/edge deployments and for customers who have space constrained IT environments.

**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.\(^11\)

**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.