Hewlett Packard Enterprise

An enterprise-grade hyperconverged platform that provides unmatched efficiency, performance, resiliency, and intelligence

**True hyperconvergence**
Integrates software-defined compute, storage, and networking—with advanced data services for data efficiency, data protection, and VM-centric management and mobility

**Advanced data services**
- Policy-based, VM-centric management to streamline operations
- Built-in resiliency, backup, and disaster recovery for data protection
- Always-on deduplication and compression for reduced capacity utilization by up to 10X—guaranteed

**Software-defined networking with HPE Composable Fabric**
- Centralizes management from VMware vSphere® improves visibility and simplifies troubleshooting
- Automates network management for compute and storage lifecycle events
- Helps optimize network performance for HPE SimpliVity storage and federation

**Global intelligence with HPE InfoSight for HPE SimpliVity**
- Visibility—Provides system details at the federation, cluster, and node level (includes entitlement status of the node)
- Predictive analytics—Insights into historical cluster capacity consumption and prediction to full
- Proactive wellness alerts—Alleviates support issues and reduces operational expenses with automated wellness alerts and case creation
- VM resource utilization—Visibility to VM neighbors and insights into VM storage utilization to identify high consuming VMs and implement corrective actions
- Provides a unified view of HPE assets

**HPE SimpliVity multiplatform options**

**HPE SimpliVity 380**
- Ideal for storage-intensive workloads
- Multiple all-flash configuration options (XS, S, M, L, and XL)
- Hardware accelerated or software optimized always-on deduplication and compression
- Backup and archive hybrid flash storage node for large data backup and recovery needs
- General virtualization and virtual desktop infrastructure (VDI) workloads

**HPE SimpliVity 325**
- Ideal for small ROBO and edge use cases
- Highly dense, 1U single AMD processor node with high core count
- Lower TCO
- Full HPE SimpliVity software functionality

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**Power to the VM administrator**

**HPE SimpliVity with Composable Fabric**

**True hyperconvergence from data center to edge**

**Modern data architecture**

To be successful and harness the opportunities that come with an “everything computes” world, enterprises must address a new generation of applications and data that span across multiple platforms and technologies. Because most IT environments are very complex, companies are searching for simpler infrastructure solutions that are agile, automated, scalable, and simple. Whether your applications and data reside in the data center, private or public clouds, at the edge of your network, or a combination of the above, you need the flexibility to operate seamlessly across all environments. A hyperconverged solution provides that flexibility by converging compute, storage, networking, and advanced data services for virtualized workloads into one simple to manage, software-defined platform.

**Introducing HPE SimpliVity**

This enterprise-grade, pre-integrated, hyperconverged building block scales to 16 nodes per cluster/96 nodes per federation and for large ROBO environments, 48 clusters per federation. HPE SimpliVity dramatically simplifies IT by combining all hyperconverged infrastructure (HCI) and advanced data services for virtualized workloads—including VM-centric management and mobility data protection, and data efficiency—and is based on HPE ProLiant DL380 Gen10 or HPE ProLiant DL325 servers which are part of the world’s most secure industry-standard server portfolio. For customers who need high-density nodes in their hyperconverged solution, Hewlett Packard Enterprise now offers the HPE SimpliVity 2600 for space-constrained environments.

**HPE Composable Fabric**

HPE offers a true HCI offering that includes not only software-defined compute and storage but 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).

**HPE InfoSight for HPE SimpliVity**

HPE InfoSight, an industry-leading Artificial Intelligence for Operations (AIOps) platform, 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 issues and reduce operational expenses, and VM resource utilization to gain insights into noisy VM neighbors and highest consuming VMs.

**Multiplatform options**

**HPE SimpliVity 380**

HPE SimpliVity 380 offers extra-small, small, medium, large and extra-large solutions in single- and dual-socket configurations that are priced right for businesses of all sizes. These solutions include all-flash storage, easy management, robust data efficiency, and built-in data protection—at a very attractive price point.

**New HPE SimpliVity 380 backup and archive node**

IT organizations that need an efficient solution to backup and recover large amounts of data now have a new cost-effective, hybrid flash storage hyperconverged option. The HPE SimpliVity 380 backup and archive node protects archived data in multisite and ROBO deployments. This solution provides all the benefits of HPE SimpliVity plus meets the need of large capacity systems in an operational backup, recovery, archive, and off-site replication use case.

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**HPE SimpliVity HyperGuarantee**

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

HPE SimpliVity 2600
• Ideal for compute-intensive workloads
• Dense form factor for space-constrained environments
• High GPU per rack unit density
• Software optimized for always-on deduplication and compression
• General virtualization and VDI workloads

Mixed federation strategy
• Customers can choose to 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

What makes HPE SimpliVity with Composable Fabric different from other solutions?

Agility
• Deploy new apps in minutes with auto-workload optimization

Empowerment
• Automate data management and networking to empower virtualization admins

Cost savings
• Reduce complexity, automate tasks, and increase data efficiency

Hybrid cloud
• Deliver apps at cloud speed and with cloud economics

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

IDC white paper sponsored by HPE SimpliVity: HPE internal validation, July 2018.

Login VSI is the de facto IT-industry standard in VDI performance load testing and benchmarking, June 2018.

1 TechValidate. techvaldata.com/ tvid/57D-FAC-AFC June 2018
2 HPE SimpliVity HyperGuarantee
3 HPE internal validation, July 2018.
4 IDC white paper sponsored by HPE SimpliVity
5 Datascenters Leverage HPE SimpliVity to Drive Operational Simplicity, Improved Performance, and Other Critical Datacenter Benefits

Our solution partners

Our solution partners supported by NVIDIA® GPUs.

New HCI choice with HPE SimpliVity 325
The latest offering in the HPE SimpliVity portfolio provides customers with a new option when it comes to HCI. 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. Customers with remote offices and data centers at the edge and those with space-constrained locations will benefit from this hyperconverged node.

HPE SimpliVity 2600
HPE SimpliVity 2600 is a new solution for VDI workloads that offers HPE SimpliVity software on an HPE Apollo 2000 server platform optimized for environments that require higher density nodes. In fact, HPE is the first vendor to deliver consistent performance with software enabled always-on deduplication and compression, which has been tested and validated by HPE and Login VSI.³

Agility
Industry’s only true hyperconverged solution that offers scale-out compute, storage, and networking
• Friction-free infrastructure for enterprise cloud. Deploy apps and data management without storage and network complexity.
• Effectively run any virtualized workloads such as SQL Server, VDI, collaboration, DevOps, or Docker across software-defined infrastructure.
• 88% of customers see dramatic app performance improvement.⁴

Empowerment
Advanced data services and leading performance in a single networked building block, managed from VMware vCenter⁵
• VM admin now enjoys end-to-end automation of storage and networking tasks.
• Under 1 minute to back up or restore a 1 TB VM.⁵
• Gain time for innovation.

Cost savings
Automate and simplify configuration tasks while increasing storage efficiency
• Save 90% capacity across storage and backup combined⁶
• Save 50% in end-to-end network configuration and troubleshooting’
• 91% time freed to focus on apps⁸

Hybrid cloud
Manage pooled hybrid cloud resources via software-defined tools, enabling a true cloud strategy
• Unified view across on-premises and public cloud with insights into all costs and usage.
• Deploy apps and manage VMs in minutes with a few clicks.

Services
Optimize uptime with support provided by HPE Pointnext 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.

Start innovating now
There’s no need to wait. Contact your authorized HPE SimpliVity sales representative to find out how you can start enjoying the benefits of hyperconvergence.

Learn more at hpe.com/info/simplivity

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