



**Hewlett Packard**  
Enterprise

Frequently asked questions

# **HPE SimpliVity 380 Hyperconverged Infrastructure Solution**



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## Introduction

For IT leaders struggling to achieve the agility and economics of the cloud, with the control and governance of on-premises IT, HPE SimpliVity 380 delivers an all-flash, powerhouse [hyperconverged infrastructure solution](#), running the world's most efficient and resilient data centers. A market and customer satisfaction leader, the solution dramatically simplifies IT by combining all infrastructure and advanced data services for virtualized workloads onto the bestselling server platform on the market. Unlike competing solutions, the [HPE SimpliVity 380's](#) modern data architecture provides unmatched efficiency, performance, and resiliency to power and protect even the most demanding workloads.

### **Q: How can I order HPE SimpliVity 380?**

**A:** The HPE SimpliVity 380 is available to order now. Contact your local HPE SimpliVity sales representative to learn more, or go to [hpe.com/info/simplivity](http://hpe.com/info/simplivity).

## HPE SimpliVity 380 with Hyper-V

### General information

#### **Q: When was support for HPE SimpliVity 380 with Hyper-V announced?**

**A:** On May 7, 2018, HPE announced support for HPE SimpliVity 380 with Hyper-V.

#### **Q: Why is this announcement important?**

**A:** Now customers have a choice in hypervisors for HPE SimpliVity 380. New capabilities enable customers to deploy in either VMware vSphere® or Microsoft® Hyper-V Server 2016 private clouds. With this HPE multi-hypervisor strategy, customers do not need to worry about vendor lock-in.

#### **Q: What are the primary use cases for HPE SimpliVity with Hyper-V?**

**A:** Enterprise ROBO and Test/Dev are primary use cases today. Additional use cases will become available in future releases.

#### **Q: Who are the main target customers for HPE SimpliVity with Hyper-V?**

**A:** Enterprise ROBO, plus small and medium sized Hyper-V customers who want to consolidate their server environments and manage those environments with Microsoft System Center.

#### **Q: Does HPE SimpliVity with Hyper-V support the HPE SimpliVity HyperGuarantee?**

**A:** Yes, all elements of the HyperGuarantee are fully supported with HPE SimpliVity with Hyper-V.

## Technical

### 1. Feature parity—HPE SimpliVity with VMware®

#### **Q: What HPE SimpliVity features are available in this release of HPE SimpliVity 380 with Hyper-V?**

**A:** VM Backup, VM Restore, VM Clone, VM Move, Backup Policies, HPE SimpliVity Data Virtualization Platform, and HPE SimpliVity Deployment Manager.

#### **Q: Is HPE SimpliVity RapidDR supported with HPE SimpliVity with Hyper-V?**

**A:** No, HPE SimpliVity RapidDR is not supported in this release.

#### **Q: What HPE SimpliVity features are not supported through the HPE SimpliVity with Hyper-V GUI?**

**A:** While not supported in the GUI the following features are fully available through the HPE SimpliVity CLI or REST API: safe shutdown, cancel backup, set time-zone, remove host from a federation, resume/suspend backup policies, view tasks, create impact report while editing backup policy rules, calculate unique backup size, and create support capture.

#### **Q: HPE SimpliVity with VMware supports the VMware linked mode feature, allowing for a global federation of remote data center clusters. Does HPE SimpliVity with Hyper-V support a global federation of data center clusters?**

**A:** Yes, while Hyper-V does not have the concept of “linked mode” all defined and deployed clusters can be part of the same global federation managed by a single instance of SCVMM, and that instance can be protected by Microsoft Cluster Services.



**Q: Does HPE SimpliVity with Hyper-V support the HPE OmniStack Accelerator Card?**

A: Yes, the HPE OmniStack Accelerator Card is a key component of the peak and predictable performance of the HPE SimpliVity platform and it functions with both the VMware® ESXi™ and Microsoft Hyper-V hypervisors.

**Q: Is the data efficiency similar to HPE SimpliVity with VMware?**

A: Yes, inline deduplication and compression is still a key feature of HPE SimpliVity and users can expect similar data efficiency results when using HPE SimpliVity with Hyper-V.

**Q: How many Hyper-V hosts can be deployed in a cluster?**

A: With this release two hosts can be deployed in a given cluster.

**Q: What is the maximum supported federation size in this release?**

A: With this release we support a maximum of 8 hosts, in a 2+2+2+2 federation.

**Q: Can customers mix a VMware and a Hyper-V cluster in a single federation?**

A: The mixing of VMware and Hyper-V is not supported in this release.

**Q: When will HPE SimpliVity with Hyper-V reach feature parity with VMware?**

A: Future releases will bring the Hyper-V product closer to feature parity with the VMware product, though some features will not make sense for the Hyper-V product and some features will only exist for the Hyper-V product.

**2. Native Hyper-V features and functionality****Q: Where do customers manage their HPE SimpliVity hosts running in Hyper-V?**

A: Customers manage their HPE SimpliVity with Hyper-V environment directly through Microsoft SCVMM leveraging the integrated HPE SimpliVity Add-in for SCVMM.

**Q: In a deployed HPE SimpliVity with Hyper-V environment, where does an administrator find HPE SimpliVity functionality?**

A: From the HPE SimpliVity button on the SCVMM ribbon.

**Q: What is the failure domain for HPE SimpliVity hosts deployed in Hyper-V?**

A: The failure domain is the Hyper-V Cluster, which is contained within a Hyper-V Host Group.

**Q: What protocol is used by the Hyper-V hypervisor to provide virtual machines access to an HPE SimpliVity datastore?**

A: Microsoft Server Message Block version 3 (SMB v3).

**Q: Are the VHD and VHDX disk formats supported with HPE OmniStack for Hyper-V?**

A: Yes, both the legacy VHD format and the more modern VHDX format are supported.

**Q: What are the tools that can be used for migrating VMs from VMware to Hyper-V?**

A: No specific tools are provided by HPE but customers can use the Microsoft Virtual Machine Converter.

**3. HPE SimpliVity with Hyper-V hardware and software support****Q: What HPE SimpliVity systems are supported in this release?**

A: The HPE SimpliVity 380 Gen10 4000-series small and medium systems are supported in this release.

**Q: What is the required CPU, memory, and storage to support HPE SimpliVity with Hyper-V?**

A: All configurations of the HPE SimpliVity 380 Gen10 4000-series small and medium systems are supported.



**Q: Is HPE SimpliVity with Hyper-V supported on single-CPU systems?**

A: Yes, HPE SimpliVity with Hyper-V is supported on both single- and dual-CPU systems.

**Q: Can existing HPE SimpliVity Gen10 systems be redeployed as Hyper-V hosts?**

A: No, Hyper-V support is only available for new system purchases.

**Q: Is HPE SimpliVity with Hyper-V supported on HPE SimpliVity 380 Gen9 or the legacy HPE OmniStack models (OmniCube, Dell, Cisco, Lenovo)?**

A: No, HPE SimpliVity with Hyper-V does not support HPE SimpliVity 380 Gen9 or the legacy HPE OmniStack models.

**Q: Is the NVIDIA® Tesla M10 GPU supported for HPE OmniStack on Hyper-V?**

A: No, in this release the NVIDIA GPU is not supported.

**4. Deployment considerations****Q: What are the software requirements for the Microsoft System Center Virtual Machine Manager server?**

A: Microsoft Windows Server® 2016 R2 (or later) Datacenter Edition (with Update Rollup 3, Failover Cluster Tools, and Failover Cluster Module for Microsoft Windows® PowerShell), Microsoft System Center Virtual Machine Manager 2016 (with Remote Server Administration Tools, DNS Server Tools, Active Directory Domain Services Tools, PowerShell Server Manager Module and DNS Role), and Microsoft Active Directory 2012, 2012 R2, or 2016 (with integrated DNS configured).

**Q: What are the software requirements for the system running HPE SimpliVity Deployment Manager?**

A: Microsoft Windows 7 or 8.1, or Microsoft Windows Server 2008 R2, 2012 R2, or 2016, and Oracle Java 1.8 and Microsoft .NET Framework 4.0 or later web installer package.

**Q: Does the customer need a “net new” Hyper-V environment dedicated to HPE SimpliVity with Hyper-V?**

A: No, HPE SimpliVity with Hyper-V clusters can be added to existing Hyper-V environments as long as they meet the minimum software requirements as defined in the HPE SimpliVity with Hyper-V Deployment Guide.

**Q: Where can the HPE SimpliVity Arbiter be installed?**

A: The HPE SimpliVity Arbiter can be installed on the server running System Center Virtual Machine Manager or any Microsoft Windows system outside of the HPE SimpliVity federation. The minimum supported operating systems are Microsoft Windows XP SP2 or Microsoft Windows Server 2003, SP1/x64.

**Q: What does HPE provide for management of a HPE SimpliVity with Hyper-V environment?**

A: HPE provides the HPE SimpliVity Add-in for SCVMM which allows Hyper-V administrators to manage HPE SimpliVity functionality.

**Q: Is there a different HPE SimpliVity Deployment Manager for deploying HPE SimpliVity with Hyper-V?**

A: No, the HPE SimpliVity Deployment Manager supports the deployment of ESXi and Hyper-V hosts, although not in the same federation.

**Q: Do the network requirements for HPE SimpliVity hosts in Hyper-V differ from those in VMware vSphere?**

A: No, network requirements for HPE SimpliVity Hyper-V hosts are identical to those for VMware vSphere. Three separate networks are management, storage, and federation.

**Q: Does HPE SimpliVity with Hyper-V require the HPE SimpliVity Arbiter?**

A: Yes, and it must be installed on a Windows Server (physical or virtual), outside any nodes in the cluster that it arbitrates.

**Q: What are the Ethernet MTU requirements for HPE SimpliVity with Hyper-V networking?**

A: HPE SimpliVity recommends an MTU of 1500 for management networks and requires an MTU of 9000 for the storage and federation networks (for hosts that are part of a cluster).



## HPE SimpliVity 380 with VMware

### General information

#### What are the features available in the HPE SimpliVity 380 Gen10 platform?

- Single and dual processor options
- 4000 and 6000 series all-flash configurations priced competitively to previous generation hybrid storage
- Extra small, small, medium, and large configurations for both 4000 series and 6000 series all-flash
- Extra large configuration for 4000 series all-flash
- HPE ProLiant Gen10 hardware advancements
- Support for NVIDIA GRID Tesla M10 VDI graphics accelerator

#### Q: What's the difference between the HPE SimpliVity 380 Gen10 4000 series all-flash versus the 6000 series all-flash?

**A:** The 4000 series all-flash is ideal for price sensitive customers who have read-intensive or typical read/write mixed workloads. The 6000 series all-flash is ideal for customers who have high-performance mixed workloads with read and/or write intensive requirements.

#### Q: Which features are available with HPE SimpliVity 380 Gen10 4000 series all-flash?

**A:** Hewlett Packard Enterprise announced XS, S, M, L, and XL HPE SimpliVity 380 Gen10 all-flash solutions, in both single and dual socket configurations. The XS and S solutions are very suitable for SMB and ROBO customers who have lower compute needs and are looking for an affordable hyperconverged solution. The XL configuration is ideal for customers with high storage capacity workloads or who need a backup hub for distributed environments. All solutions offer the performance of an all-flash solution at a hybrid HCI storage price. For customers with high-end graphics needs, HPE also announced support for NVIDIA Tesla M10 GPU accelerator cards.

#### Q: Which features are available with HPE SimpliVity 380 Gen10 6000 series all-flash solutions?

**A:** The HPE SimpliVity 380 Gen10 6000 series all-flash portfolio includes XS, S, M, and L single and dual processor configurations, all-flash storage at competitive prices, and support for NVIDIA Tesla M10 GPU accelerator cards. The 6000 series is best for enterprise high-performance mixed workloads—great for read and I/O intensive environments.

#### Q: What is HPE SimpliVity RapidDR?

**A:** HPE SimpliVity RapidDR is an automated, simplified off-site disaster recovery solution that provides VM protection across primary and secondary sites. This solution is a good lightweight user-based application that is an alternative to VMware® vCenter™ Site Recovery Manager™.

HPE SimpliVity RapidDR 2.0 started shipping on 30 October 2017. New features of this latest product release include:

- Priority-based, parallel recovery of VMs which reduces failover time by up to 80% compared to sequential failover time.
- An enhanced customer experience that provides a proactive assessment of the source site configurations and provides recovery actions in the event a VM recovery fails.
- Automated fail back functionality helps customers meet recovery time objectives.
- Ability to support up to 600 VMs within the same RapidDR recovery plan.

#### Q: I currently have a Hyper Converged 380. What are my options for upgrades or trade-ins to get the HPE SimpliVity technology?

**A:** As always HPE will work with our partners to deliver a migration path to future offerings as they become available. As new products and transition plans are defined, they will be clearly communicated.



**Q: What does HPE SimpliVity 380 built-in data protection include?**

**A:** The HPE SimpliVity 380 offers the only hyperconverged infrastructure solution with built-in data protection and data efficiency features that eliminate the need for separate backup and recovery products. HPE SimpliVity 380 offers native backup, recovery, remote replication, and disaster recovery capabilities. The solution includes full VM backups in seconds; guaranteed 60-second restores; granular, file-level recovery; and application-consistent backups.

**Q: Is an all-flash HPE SimpliVity 380 portfolio too expensive for my budget?**

**A:** HPE has priced the 4000 series all-flash portfolio to be price competitive to other HCI hybrid solutions and includes all the benefits of all-flash, including superior and predictable performance and low latency. The 6000 series all-flash portfolio is competitively priced compared to other HCI all-flash solutions.

**Q: What is the HyperGuarantee that comes with the HPE SimpliVity 380 and how can I learn more?**

**A:** HPE SimpliVity HyperGuarantee guarantees customer results in five key areas: data efficiency, protection, simplicity, management, and availability. For more information, please see [hpe.com/h20195/v2/Getdocument.aspx?docname=a00009180ENW](http://hpe.com/h20195/v2/Getdocument.aspx?docname=a00009180ENW).

**Q: When can I see a demo of the HPE SimpliVity 380?**

**A:** To view a demo of the HPE SimpliVity technology in action, visit [hpe.com/us/en/resources/cloud/hpe-simplivity-demo.html](http://hpe.com/us/en/resources/cloud/hpe-simplivity-demo.html). To request a live demo, please contact your local HPE sales representative.

## Technical

**Q: Is it possible to mix HPE SimpliVity 380 Gen9 servers with Gen10 servers?**

**A:** Yes. It is possible to mix server generations within the same cluster if the storage size is the same. Please refer to the [Heterogeneous HPE SimpliVity clusters technical white paper](#) for more information.

**Q: Is it possible to mix HPE SimpliVity Gen9 Cisco, Dell, and Lenovo nodes with HPE SimpliVity Gen10 nodes?**

**A:** Yes, it is possible to mix Gen9 and Gen10 nodes if the customer is using 3.7.3 HPE OmniStack software and if storage capacity is consistent across all nodes. Please refer to the [Heterogeneous HPE SimpliVity clusters technical white paper](#) for more information.

**Q: Is the HPE OmniStack Accelerator Card, for deduplication and compression, required for Gen10 solutions?**

**A:** Yes. All HPE SimpliVity 380 offerings require the accelerator card for deduplication and compression.

**Q: Is data-at-rest encryption available for Gen10 solutions?**

**A:** Yes. HPE SimpliVity Gen10 uses the HPE Smart Array Controller versus the LSI card that was used for Gen9. The new HPE Smart Array Controller Gen10 supports data-at-rest encryption with local and remote/central key management for HPE SimpliVity 380 Gen10.

**Q: What hypervisors does the HPE SimpliVity 380 support?**

**A:** HPE SimpliVity 380 was built to be hypervisor-agnostic, currently supporting VMware® vCenter™ with support Microsoft Hyper-V on the short-term road map.

## Installation and support

**Q: Is the HPE SimpliVity 380 Gen10 customer installable?**

**A:** Customers can rack and cable the HPE SimpliVity 380 Gen10, however, the customer will need to engage the service delivery team for deployment.

**Q: Which HPE Pointnext support levels are available for HPE SimpliVity 380?**

**A:** Both Foundation Care and Proactive Care from HPE Pointnext are available. Although Proactive Care is recommended, Foundation Care is now the minimum level of support for HPE SimpliVity 380.





### HPE SimpliVity 380 with Hyper-V Gen10 All-Flash model specifications



Model	CPU configuration	Memory	Storage configuration	Effective storage capacity	RAID configuration
Small	1P Intel® Xeon® 8-14, 16-22 Cores	87-711 GB	5 x 1.92 TB SSD*	6-12 TB	RAID 5
	2P Intel Xeon 8-14, 16-22 Cores	156-1436 GB			
Medium	1P Intel Xeon 8-14, 16-22 Cores	87-711 GB	9 x 1.92 TB SSD*	12-25 TB	RAID 6
	2P Intel Xeon 8-14, 16-22 Cores	156-1436 GB			

\* Hyper-V configuration is available for 4000-series only as of May 7, 2018.

### HPE SimpliVity 380 with VMware Gen10 All-Flash model specifications



Model	CPU configuration	Memory	Storage configuration	Effective storage capacity	RAID configuration
<b>XS</b>	1P Intel Xeon 8-14, 16-22 Cores	87-711 GB	5 x 960 GB SSD	3-6 TB	RAID 5
	2P Intel Xeon 8-14, 16-22 Cores	156-1436 GB			
<b>Small</b>	1P Intel Xeon 8-14, 16-22 Cores	87-711 GB	5 x 1.92 TB SSD	6-12 TB	RAID 5
	2P Intel Xeon 8-14, 16-22 Cores	156-1436 GB			
<b>Medium</b>	1P Intel Xeon 8-14, 16-22 Cores	87-711 GB	9 x 1.92 TB SSD	12-25 TB	RAID 6
	2P Intel Xeon 8-14, 16-22 Cores	156-1436 GB			
<b>Large</b>	1P Intel Xeon 8-14, 16-22 Cores	87-711 GB	12 x 1.92 TB SSD	20-40 TB	RAID 6
	2P Intel Xeon 8-14, 16-22 Cores	156-1436 GB			
<b>XL*</b>	1P Intel Xeon 8-14, 16-22 Cores	384-711 GB	12 x 3.84 TB SSD	40-80 TB	RAID 6
	2P Intel Xeon 8-14, 16-22 Cores	768-1436 GB			

\* XL configuration is available for 4000-series only.

### HPE SimpliVity 380 with VMware Gen9 All-Flash model specifications



Model	CPU configuration	Memory	Storage configuration	Effective storage capacity	RAID configuration
<b>Small All-Flash</b>	Dual Intel® E5-2600 v4 (Broadwell) 16-44 Cores	187-1467 GB	5 x 1.9 TB SSD	6-12 TB	RAID 5
<b>Medium Enterprise All-Flash</b>	Dual Intel E5-2600 v4 (Broadwell) 16-44 Cores	148-1428 GB	9 x 1.9 TB SSD	12-25 TB	RAID 6
<b>Large Enterprise All-Flash</b>	Dual Intel E5-2600 v4 (Broadwell) 16-44 Cores	142-1422 GB	12 x 1.9 TB SSD	20-40 TB	RAID 6



## Frequently asked questions

## Other resources

[HPE SimpliVity Data Virtualization Platform technical white paper](#)

[“Magic Quadrant for Hyperconverged Infrastructure,” Gartner, 2018](#)

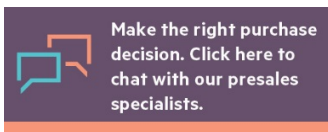
[HPE SimpliVity 380 data sheet](#)

[HPE SimpliVity HyperGuarantee](#)

[“HPE SimpliVity Hyperconvergence Drives Operational Efficiency, and Customers Are Benefiting,” IDC, 2017](#)

## Learn more at

[hpe.com/info/simplivity](http://hpe.com/info/simplivity)



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