

### Overview

#### HPE vSAN ReadyNode Solutions

VMware vSAN™ is a software-defined storage product that pools direct-attached storage devices across a VMware vSphere server virtualization cluster to create a distributed, shared data store.

Hewlett Packard Enterprise supports, certifies, and offers VMware vSAN ReadyNode™ configurations based on HPE ProLiant servers. These easy-to-order configurable bundles are built on HPE ProLiant DL325, DL360 and DL380 Gen10 servers and are certified under the HPE vSAN ReadyNode profile specifications. All options available for our CTO base configurations are tested, certified, and listed in the VMware hardware compatibility list, taking the guesswork out of building vSAN ReadyNode configurations. These HPE configurations were built based on the published VMware vSAN ReadyNode Profiles. HPE has now released CTO configurations for each of the Hybrid and All Flash profiles for our 3 platforms. HPE also has configurations optimized for either virtualization, data management and processing, accelerated infrastructure, or data warehousing, to provide ideal performance based on the customer's workload. Additionally, customers now have the option to pre-install VMware ESXi 6.7u3 or ESXi 7.0 plus HPE certified drivers and firmware. If vSphere 7.0 is chosen, HPE also provides the vLCM plug-in. Please note that the ESXi 7.0 pre-install trigger SKU is a default option in each menu, so customers can choose to keep it, de-select it and instead choose the ESXi 6.7u3 SKU, or de-select it and opt out of the pre-installation.

VMware software from Hewlett Packard Enterprise includes either one, three, or five years of unlimited, 24x7 installation, configuration, and troubleshooting support.

A complete list of supported and certified ProLiant servers is available either in the Hewlett Packard Enterprise support matrix at <http://www.hpe.com/servers/vmwarecert> or in the VMware hardware compatibility list (HCL) at <http://www.vmware.com/resources/compatibility/search.php>.

#### What's New

- HPE ProLiant DL325 Server for VMware vSAN FIO ReadyNode Tracking - P17504-B21 [HY-2, HY-4, HY-6, HY-8, AF-4, AF-6, AF-8]
- HPE ProLiant DL360 Server for VMware vSAN FIO ReadyNode Tracking - P17393-B21 [HY-2, HY-4, HY-6, HY-8, AF-4, AF-6, AF-8] HPE ProLiant DL380 Server for VMware vSAN FIO ReadyNode Tracking - [HY-2, HY-4, HY-6, HY-8, AF-4, AF-6, AF-8]
- Trigger SKUs: default option on all CTO base configurations (allows pre-installation of VMware ESXi 6.7u3 or ESXi 7.0 plus HPE certified drivers and firmware)
- vLCM plug-in for vSphere 7.0 available with pre-installation

#### At A Glance

HPE vSAN ReadyNodes provide customers with the fastest path to optimized workloads, delivered on platforms that provide broad scalability and flexibility for each unique environment. The end-to-end solutions are covered by HPE Proactive Care support and can be sourced entirely from Hewlett Packard Enterprise, inclusive of VMware software licenses. Key features and benefits include:

- HPE now offers base configurations for all seven vSAN ReadyNode profiles for our DL300 series rack servers.
- Optimized solutions – Four vSAN ReadyNode offerings are optimized to provide ideal performance on the following workloads:
  - Virtualization – The HPE ProLiant DL325 All Flash 6 (AF-6) offering is optimized for heavily virtualized and/or web infrastructure environments, making this solution ideal as a computing power add-on to increase output in media streaming or web serving services or manage IT infrastructure.
  - Data management and processing – The HPE ProLiant DL360 All Flash 8 (AF-8) offering provides a solution to data storage aimed at optimizing data management and analytics. With high disk throughput and low latency, this solution will be a great addition for a variety of storage structures.
  - Accelerated Infrastructure – The HPE ProLiant DL380 8SFF All Flash 4 (AF-4) offering comes graphics-ready to optimize next-generation compute performance via dedicated coprocessors. A great addition for high-end 2D/3D visualization or virtual desktop infrastructures.

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- Data warehousing – The HPE ProLiant DL380 24SFF Hybrid 8 (HY-8) offering provides the storage needed to assist with heavy collaboration and data intensive or large analytics processing environments. Optimized for capacity with additional expansions slots available, this server is geared to handle a wide range of storage requirements.
- Custom and scalable build- All nodes default to a configuration optimized for both cost and performance; however, each has a full suite of options to upgrade. The customer can tailor each server to fit their specific environment.
- Factory built -The hardware is assembled and configured in the HPE factory using extensively tested configuration guidelines.
- Factory installation - All ReadyNode configurations will offer pre-installation of ESXi 7.0 plus HPE certified drivers and firmware as default options. Alternately, customer can select a pre-installation of VMware ESXi 6.7u3 or remove the pre-install option completely if they choose.
- vLCM plug-in for vSphere 7.0 available with pre-installation. (Integrated ESXi, firmware, and driver updates through VMware vCenter using vLCM.)
- Solution-level support - Hewlett Packard Enterprise offers its HPE 4-hour 24x7 Proactive Care Service as base support, with options for Proactive Care Advanced as well as DataCenter Care. This solution-level support experience is designed to accelerate time to resolution and is delivered by an HPE Center of Excellence capable of supporting the complete solution, including the HPE hardware, software, VMware software, and Microsoft software. HPE solution support experts are well versed in all aspects of the offering. Customers also have the ability to select from various service level options such as HPE 6-Hour Call-to-Repair Hardware Support, or options for defective media retention.

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### HPE Web Sites

- Alliance page: <https://www.hpe.com/us/en/alliance/vmware.html>
- Support Matrix: <http://www.hpe.com/servers/vmwarecert>

### License activation instructions:

- [https://hpe.sharepoint.com/teams/Team\\_VMware/Shared%20Documents/Licensing/c04430317\\_VMware%20Activation%20Instructions.pdf](https://hpe.sharepoint.com/teams/Team_VMware/Shared%20Documents/Licensing/c04430317_VMware%20Activation%20Instructions.pdf)

### VMware from Hewlett Packard Enterprise:

- <https://buy.hpe.com/b2c/us/en/software/virtualization-software/vmware-virtualization-software/vmware-vsphere-software-series/vmware-vsphere-software/p/4010459>

### VMware websites

- <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/product/vmware-product-guide.pdf>
- <https://vsansizer.vmware.com/login?src=%2Fhome>
- <https://www.vmware.com/resources/compatibility/search.php>

Download software at <http://downloads.vmware.com>

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## Standard Features

### Weight & Dimensions

- **Dimensions**  
8.75 x 5.625 x 0.063 in (22.23 x 14.29 x 0.16 cm)
  - **Volume**  
0.002
  - **Gross Weight (lb)**  
0.056 lb (0.03 kg)
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### Licensing

VMware server products are available on a per-processor license. You must have the same number of licenses as processors installed in your system. Note that VMware solution bundles (i.e. Essentials products) and acceleration kits have specific server and processor boundaries within these licenses. To view the licenses for which you are entitled, log in to your VMware portal.

### License Activation and Software Download Instructions

Retrieve your entitlement order number from the Entitlement Certificate. If you have opted for physical delivery, your entitlement certificate will be part of your shipment. If you have opted for electronic delivery, you will receive an email from Hewlett Packard Enterprise with a link for retrieving your entitlement certificate.

Visit [MyEnterpriseLicense.hpe.com](http://MyEnterpriseLicense.hpe.com) and login with your Hewlett Packard Enterprise Passport to generate your Partner Activation Code (PAC). You will receive an email from Hewlett Packard Enterprise with various activation codes, including your PAC, for your VMware products.

- Visit <http://vmware.com/code/hp> to register your PAC and generate your serial number.
  - Visit <http://downloads.vmware.com> to download your VMware software and follow the prompts to install your VMware product.
  - Visit [https://hpe.sharepoint.com/teams/Team\\_VMware/Shared%20Documents/Licensing/c04430317\\_VMware%20Activation%20Instructions.pdf](https://hpe.sharepoint.com/teams/Team_VMware/Shared%20Documents/Licensing/c04430317_VMware%20Activation%20Instructions.pdf) for License Activation Instructions.
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### Supported Media for vSphere 6/vSphere 7

Acquire your choice of Hewlett Packard Enterprise supported and qualified media. Please note that all devices will need to be imaged for vSphere 6/vSphere 7

- Any HPE hard drive
  - HPE flash devices are listed under the Hardware Specs below
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### Entitlement Mappings

For complete details on upgrades and entitlements, visit <http://www.vmware.com/go/vsphere> and review the Upgrade Center.

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### Downgrade Information

vSphere downgradable to currently supported products. Downgrades and entitlements for valid subscriptions will be available in your profile in the VMware license portal. VMware vSphere supported products are listed in the VMware lifecycle matrix <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/support/product-lifecycle-matrix.pdf>

For more information on how to downgrade license keys in the VMware portal visit <https://kb.vmware.com/s/article/2006975>

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## Configuration Information

### How to order

Customers can purchase VMware vSAN ReadyNodes directly from Hewlett Packard Enterprise or through Hewlett Packard Enterprise authorized resellers. There is a dedicated VMware vSAN solutions catalog within our Hewlett Packard Enterprise sales and authorized partner ordering tool [OCA]. Within the catalog, all profiles and workload optimized solutions are listed within 'VMware Solutions' and the desired platform can be chosen by these dedicated tracking SKUs.

HPE ProLiant DL325 Gen10 Server for VMware vSAN FIO Ready Node Tracking	P17504-B21
HPE ProLiant DL360 Configure-to-order Server for VMware vSAN ReadyNode Tracking	P17393-B21
HPE ProLiant DL380 Configure-to-order Server for VMware vSAN ReadyNode Tracking	P17481-B21

### Installation, Startup, and Support Services

#### HPE VMware SW/FW Update Service

To ensure optimal solution performance and quick time to resolution for support issues, Hewlett Packard Enterprise recommends that all customers maintain their software (SW)/firmware (FW) at the latest recommended recipe level. Hewlett Packard Enterprise publishes a SW/FW recipe twice a year with prescribed versions for all FW and SW elements. At a minimum, a system should be maintained at no more than N-2 versions. If customers choose pre-installation (insert trigger SKUs), they will also have pre-installed the latest available HPE FW and SW elements. Customers have the choice between the below two trigger SKUs, which consist of either factory installation of HPE Custom Image containing VMware ESXi 7.0 iso + HPE SPP drivers + HPE Value-Add Software or factory installation of HPE Custom Image containing VMware ESXi 6.7U3 iso + HPE SPP drivers + HPE Value-Add Software. ESXi 7.0 pre-install trigger SKU is a default option in each menu, so customers can choose to keep it, de-select it and instead choose the ESXi 6.7u3 SKU, or de-select it and opt out of the pre-installation.

HPE ProLiant DL3XX Gen10 with Additional Custom VMware ESXi 7.0x FIO Software	R4S40A
HPE ProLiant DL3XX Gen10 with Additional Custom VMware ESXi 6.7x FIO Software	R4S41A

**Notes:** Additional required SKUs if customers choose pre-installation include:

HPE 240GB SATA 6G Read Intensive M.2 2280 3yr Wty SSD	P19888-B21
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**Notes:** For DL325 vSAN ReadyNode Solutions with pre-installation, HPE Universal SATA HH M.2 Kit (878783-B21) required as well.

For those customers with the appropriate hardware (HW)/SW capabilities, Hewlett Packard Enterprise publishes a thorough update guide with each recipe release that authorized customers can download from the HPE Support Center and use to perform their own updates.

Hewlett Packard Enterprise strongly recommends that customers utilize our existing SW/FW updated services to ensure that an update does not unnecessarily impact your business model.

### HPE VMware vSAN Products

**Notes:** Software requirements: VMware vCenter Server 6.x/7 and either VMware vSphere 6.x/7 (any edition) or VMware vCloud Suite 6.x (any edition).

VMware vSAN Standard 1 Processor 1yr LTU	G4Y17A
VMware vSAN 1 Processor 1yr E-LTU	G4Y17AAE
VMware vSAN Standard 1 Processor 3yr LTU	G4Y18A
VMware vSAN 1 Processor 3yr E-LTU	G4Y18AAE
VMware vSAN Standard 1 Processor 5yr LTU	G4Y19A
VMware vSAN 1 Processor 5yr E-LTU	G4Y19AAE
VMware vSAN Advanced 1 Processor 1yr LTU	P9H44A
VMware vSAN Advanced 1 Processor 1yr E-LTU	P9H44AAE
VMware vSAN Advanced 1 Processor 3yr LTU	P9H45A
VMware vSAN Advanced 1 Processor 3yr E-LTU	P9H45AAE
VMware vSAN Advanced 1 Processor 5yr LTU	P9H46A
VMware vSAN Advanced 1 Processor 5yr E-LTU	P9H46AAE
VMware vSAN Enterprise 1 Processor 1yr LTU	P9U52B
VMware vSAN Enterprise 1 Processor 1yr E-LTU	P9U52BAE

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VMware vSAN Enterprise 1 Processor 3yr LTU	P9U53B
VMware vSAN Enterprise 1 Processor 3yr E-LTU	P9U53BAE
VMware vSAN Enterprise 1 Processor 5yr LTU	P9U54B
VMware vSAN Enterprise 1 Processor 5yr E-LTU	P9U54BAE
VMware vSAN for Remote Office Branch Office 25 VM Pack 1yr E-LTU	Q0E37BAE
VMware vSAN for Remote Office Branch Office 25 VM Pack 3yr E-LTU	Q0E38BAE
VMware vSAN for Remote Office Branch Office 25 VM Pack 5yr E-LTU	Q0E39BAE
VMware vSAN 6 Advanced for Remote Office Branch Office 25 VM Pack 1yr E-LTUvSAN	Q5T24AAE
VMware vSAN 6 Advanced for Remote Office Branch Office 25 VM Pack 3yr E-LTUvSAN	Q5T25AAE
VMware vSAN 6 Advanced for Remote Office Branch Office 25 VM Pack 5yr E-LTUvSAN	Q5T26AAE

## HPE VMware vSAN Upgrades

**Notes:** Software requirements: VMware vCenter Server 6.x/7 and either VMware vSphere 6.x/7 (any edition) or VMware vCloud Suite 6.x (any edition).

VMware vSAN Standard to vSAN Advanced Upgrade 1 Processor 1yr E-LTU	Q9N14AAE
VMware vSAN Standard to vSAN Advanced Upgrade 1 Processor 3yr E-LTU	Q9N15AAE
VMware vSAN Standard to vSAN Advanced Upgrade 1 Processor 5yr E-LTU	Q9N16AAE
VMware vSAN Standard to vSAN Enterprise Upgrade 1 Processor 1yr E-LTU	R2H05AAE
VMware vSAN Standard to vSAN Enterprise Upgrade 1 Processor 3yr E-LTU	R2H06AAE
VMware vSAN Standard to vSAN Enterprise Upgrade 1 Processor 5yr E-LTU	R2H07AAE
VMware vSAN Advanced to vSAN Enterprise Upgrade 1 Processor 1yr E-LTU	Q9N17AAE
VMware vSAN Advanced to vSAN Enterprise Upgrade 1 Processor 3yr E-LTU	Q9N18AAE
VMware vSAN Advanced to vSAN Enterprise Upgrade 1 Processor 5yr E-LTU	Q9N19AAE

## ProActive Care Services

Support VMware Licenses.	Proactive Care Services Description	ProActive Care Services SKU
G4Y18A	HPE 3 year Proactive Care 24x7 VMWare VSAN Standard 1P Service	U7H70E
G4Y18AAE	HPE 3 year Proactive Care 24x7 VMWare VSAN Standard 1P Service	U7H70E
G4Y19A	HPE 5 year Proactive Care 24x7 VMWare VSAN Standard 1P Service	U7H71E
G4Y19AAE	HPE 5 year Proactive Care 24x7 VMWare VSAN Standard 1P Service	U7H71E
P9H45A	HPE 3 year Proactive Care 24x7 VMWare VSAN Advanced 1P Service	U6ZQ7E
P9H45AAE	HPE 3 year Proactive Care 24x7 VMWare VSAN Advanced 1P Service	U6ZQ7E
P9H46A	HPE 5 year Proactive Care 24x7 VMWare VSAN Advanced 1P Service	U6ZQ8E
P9H46AAE	HPE 5 year Proactive Care 24x7 VMWare VSAN Advanced 1P Service	U6ZQ8E
P9U53B	HPE 3 Year Proactive Care 24x7 VMware VSAN Enterprise 1P Service	U6ZU7E
P9U53BAE	HPE 3 Year Proactive Care 24x7 VMware VSAN Enterprise 1P Service	U6ZU7E
P9U54B	HPE 5 Year Proactive Care 24x7 VMware VSAN Enterprise 1P Service	U6ZU9E
P9U54BAE	HPE 5 Year Proactive Care 24x7 VMware VSAN Enterprise 1P Service	U6ZU9E
Q0E38BAE	HPE 3 Year Proactive Care 24x7 VMware VSAN ROBO 25 VM Pack Service	U6ZX8E
Q0E39BAE	HPE 5 Year Proactive Care 24x7 VMware VSAN ROBO 25 VM Pack Service	U6ZY0E
Q5T25AAE	HPE 3 Year Proactive Care 24x7 VMware vSAN Advanced ROBO 25VM Service	U5JU4E
Q5T26AAE	HPE 5 Year Proactive Care 24x7 VMware vSAN Advanced ROBO 25VM Service	U5JU6E
Q9N15AAE	HPE 3 Year Proactive Care 24x7 VMware vSAN Standard to vSAN Advanced Upgrade 1P Service	U5KK0E
Q9N16AAE	HPE 5 Year Proactive Care 24x7 VMware vSAN Standard to vSAN Advanced Upgrade 1P Service	U5KK2E
Q9N18AAE	HPE 3 Year Proactive Care 24x7 VMware vSAN Advanced to vSAN Enterprise Upgrade 1P Service	U5KK4E
Q9N19AAE	HPE 5 Year Proactive Care 24x7 VMware vSAN Advanced to vSAN Enterprise Upgrade 1P Service	U5KK6E
R2H06AAE	HPE 3 Year Proactive Care 24x7 VMware vSAN Standard to vSAN Enterprise Upgrade 1P Service	U5LH4E
R2H07AAE	HPE 5 Year Proactive Care 24x7 VMware vSAN Standard to vSAN Enterprise Upgrade 1P Service	U5LH6E

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## Service and Support

### **HPE Technology Services for industry-standard servers**

Hewlett Packard Enterprise Technology Services delivers confidence, reduces risk, and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

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### **Protect your business beyond warranty with HPE Support Services**

HPE Support Services enable you to order the right service level, length of coverage, and response time as you purchase your new server, giving you full entitlement for the selected support.

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### **Recommended Services**

Hardware and software support services designed specifically for your technology with rapid access to Advanced Solution Center specialists for start-to-finish case management plus proactive reports and recommendations for firmware and software management and best practice advice. <https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

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### **Parts and Materials**

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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## Technical Specifications

### VMware vSAN ReadyNode Profile: Hybrid 2 (HY-2)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-2 minimum requirements: CPU Core: 6 cores; Memory: 32GB; Capacity Tier Disk: 2TB minimum; Caching Tier Flash: 1x200GB, NIC: 10GB.
- For more detail on vSAN profiles please see: [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 Hybrid 2 (HY-2)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processor - 8 cores, additional options available
<b>Memory</b>	32 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 2 x 1.2 TB SAS 12G Enterprise, additional options available Caching – 480 GB SATA Mixed Use, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 Hybrid 2 (HY-2)
<b>Node Size</b>	1U
<b>Processors</b>	1 x Intel Xeon Scalable processors - 10 cores, additional options available
<b>Memory</b>	32 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 2 x 1.2TB SAS Enterprise 10K, additional options available Caching – 480 GB SATA Mixed Use, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF Hybrid 2 (HY-2)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 10 cores, additional options available
<b>Memory</b>	32 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 2 x 1.2 TB SAS 12G Enterprise 10K, additional options available Caching – 480 GB SATA Mixed Use, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF Hybrid 2 (HY-2)
<b>Node Size</b>	2U
<b>Processors</b>	Intel Xeon Scalable processor - 10 cores, additional options available
<b>Memory</b>	32 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 2 x 1.2 TB SAS Enterprise 10K, additional options available Caching – 480 GB SATA Mixed Use, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available

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<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits
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### VMware vSAN ReadyNode Profile: Hybrid 4 (HY-4)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-4 minimum requirements: CPU Core: 16 cores; Memory: 128GB; Capacity Tier Disk: 4TB minimum; Caching Tier Flash: 1x200GB, NIC: 10GB
- For more detail on vSAN profiles please see: [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 Hybrid 4 (HY-4)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processor - 16 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 4 x 1.2 TB SAS 12G Enterprise, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 Hybrid 4 (HY-4)
<b>Node Size</b>	1U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 4 x 1.2 TB SAS Enterprise 10K, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF Hybrid 4 (HY-4)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 4 x 1.2 TB SAS 12G Enterprise 10K, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF Hybrid 4 (HY-4)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	128 GB, additional options available





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<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 4 x 1.2 TB SAS Enterprise 10K, additional options available Caching –400GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

### VMware vSAN ReadyNode Profile: Hybrid 6 (HY-6)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-6 minimum requirements: CPU Core: 20 cores; Memory: 256GB; Capacity Tier Disk: 8TB minimum; Caching Tier Flash: 2x200GB, NIC: 10GB  
Notes: For more detail on vSAN profiles please see: [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 Hybrid 6 (HY-6)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processors – 24 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 8 x 1.2 TB SAS 12G Enterprise, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 Hybrid 6 (HY-6)
<b>Node Size</b>	1U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 10 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 8 x 1.2 TB SAS Enterprise 10K, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF Hybrid 6 (HY-6)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity –8 x 1.2 TB SAS 12G Enterprise 10K, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits



## Technical Specifications

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF Hybrid 6 (HY-6)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 8 x 1.2 TB SAS Enterprise 10K, additional options available Caching – 2 x 400GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

### VMware vSAN ReadyNode Profile: Hybrid 8 (HY-8)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-8 minimum requirements: CPU Core: 24 cores; Memory: 384GB; Capacity Tier Disk: 12TB minimum; Caching Tier Flash: 2x400GB, NIC: 10GBNotes: For more detail on vSAN profiles please see:
- [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)
- HPE offers a vSAN ReadyNode solution optimized for Data warehousing on the HPE ProLiant DL380 24 SFF Hybrid 8 (HY-8)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 Hybrid 8 (HY-8)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processors – 24 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 8 x 1.8 TB SAS 12G Enterprise, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 Hybrid 8 (HY-8)
<b>Node Size</b>	1U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 8 x 1.8 TB SAS 12G Enterprise 10K, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits



## Technical Specifications

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF Hybrid 8 (HY-8)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 16 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 10 x 1.2 TB SAS 12G Enterprise 10K, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF Hybrid 8 (HY-8)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 16 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 8 x 1.8 TB SAS Enterprise 10K, additional options available Caching – 2 x 400GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

### VMware vSAN ReadyNode Profile: All Flash 4 (AF-4)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-4 minimum requirements: CPU Core: 20 cores; Memory: 128GB; Capacity Tier Disk: 4TB minimum; Caching Tier Flash: 1x200GB, NIC: 10GB or more
- For more detail on vSAN profiles please see: [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)
- HPE offers a vSAN ReadyNode solution optimized for Accelerated infrastructure on the HPE ProLiant DL380 8 SFF All Flash 4 (AF-4)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 All Flash 4 (AF-4)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processors - 24 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 6 x 800 GB SAS Mixed Use, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits



## Technical Specifications

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 All Flash 4 (AF-4)
<b>Node Size</b>	1U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 6 x 800 GB SAS Mixed Use, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	FlexFabric 10Gb 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits
<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF All Flash 4 (AF-4)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 6 x 800 GB SAS Mixed Use, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits
<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF All Flash 4 (AF-4)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	128 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 6 x 800 GB SAS Mixed Use, additional options available Caching – 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits



## Technical Specifications

### VMware vSAN ReadyNode Profile: All Flash 6 (AF-6)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-6 minimum requirements: CPU Core: 24 cores; Memory: 256GB; Capacity Tier Disk: 8TB minimum; Caching Tier Flash: 2x200GB, NIC: 10GB or more
- For more detail on vSAN profiles please see: [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)
- HPE offers a vSAN ReadyNode solution optimized for Virtualization on the HPE ProLiant DL325 All Flash 6 (AF-6)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 All Flash 6 (AF-6)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processors - 24 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 6 x 1.6 TB SAS Mixed Use, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 All Flash 6 (AF-6)
<b>Node Size</b>	1U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 16 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 6 x 1.6 TB SAS Mixed Use, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF All Flash 6 (AF-6)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 10 x 800 GB SAS Mixed Use, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF All Flash 6 (AF-6)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 12 cores, additional options available
<b>Memory</b>	256 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 6 x 1.6 TB SAS Mixed Use, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2

## Technical Specifications

<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

### VMware vSAN ReadyNode Profile: All Flash 8 (AF-8)

#### Notes:

- These are base default specifications for each server and match the VMware defined vSAN ReadyNode profile minimums. Processor, memory, storage, network interface controllers [NIC], and power supplies are configurable options
- HY-8 minimum requirements: CPU Core: 24 cores; Memory: 384GB; Capacity Tier Disk: 12TB minimum; Caching Tier Flash: 2x400GB, NIC: 10GB or more
- For more detail on vSAN profiles please see: [https://www.vmware.com/resources/compatibility/vsan\\_profile.html](https://www.vmware.com/resources/compatibility/vsan_profile.html)
- HPE offers a vSAN ReadyNode solution optimized for Data management and processing on the HPE ProLiant DL360 All Flash 8 (AF-8)

<b>VMWare vSAN Profile</b>	HPE ProLiant DL325 All Flash 8 (AF-8)
<b>Node Size</b>	1U
<b>Processors</b>	AMD EPYC processors - 24 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, additional options available 96W Smart Storage Battery Capacity – 6 x 1.6 TB SAS Mixed Use, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL360 All Flash 8 (AF-8)
<b>Node Size</b>	1U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 14 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 6 x 1.92 TB SATA Read Intensive, additional options available Caching – 2 x 960 GB SATA Read Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-24SFF All Flash 8 (AF-8)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 18 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 8 x 1.6 TB SAS Mixed Use, additional options available Caching – 2 x 400GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits



## Technical Specifications

<b>VMWare vSAN Profile</b>	HPE ProLiant DL380-8SFF All Flash 8 (AF-8)
<b>Node Size</b>	2U
<b>Processors</b>	2 x Intel Xeon Scalable processors - 18 cores, additional options available
<b>Memory</b>	384 GB, additional options available
<b>Storage</b>	12G SAS Modular LH Controller, one additional option 96W Smart Storage Battery Capacity – 8 x 1.6 TB SAS Mixed Use, additional options available Caching – 2 x 400 GB SAS Write Intensive, additional options available 240GB SATA 6G Mixed Use M.2
<b>Network Ports</b>	Ethernet 10/25 GB 2-port, additional options available
<b>Power Supplies</b>	2 x 800W Flex Slot Platinum Hot Plug Power Supply Kits

### Environment-friendly Products and Approach End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs in many geographic areas.

For trade-in information, please go to <http://www.hpe.com/info/recycle>.

To recycle your product, please go to <http://www.hpe.com/info/recycle> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered, or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the HPE website at

<http://www.hpe.com/info/recycle>.

These instructions may be used by recyclers and other WEEE treatment facilities as well as HPE OEM customers who integrate and re-sell HPE equipment.



## Summary of Changes

<b>Date</b>	<b>Version History</b>	<b>Action</b>	<b>Description of Change</b>
01-Jun-2020	Version 3	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
30-Jul-2019	Version 2	Changed	Overview, Standard Features, Configuration Information, Service and Support and Technical Specifications sections were updated.
01-Jul-2019	Version 1	New	New QuickSpecs





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