



Qualification Matrix for HPE Morpheus VM Essentials Software

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Abstract

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Subtopics

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This document contains the list of hardware and software that has been tested and confirmed to support HPE Morpheus VM Essentials Software and HVM Clusters at scale. **Items not included in this list may be compatible but are untested.** Using untested hardware or software may limit the scope of support services available from HPE support teams.

New hardware and software are continually being tested and certified. This document will be updated over time as new hardware SKUs are confirmed compatible and performant at scale.



NOTE

HPE Morpheus VM Essentials Software has a self-validation program for partners to quickly validate their solutions. For more information about the program, see [**HPE Morpheus VM Essentials Software self-validation program**](#).

Table 1. Server Hardware Support

Hardware Family	Platform Type	Hardware SKU	Comments
Cisco	Intel 2 RU server	Cisco UCS C240 M8	
Cisco	AMD 1 RU server	Cisco UCS C225 M8	
HPE Alletra	HPE Alletra 4000	HPE Alletra 4100, 4120	iSCSI
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL145 Gen 11	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL320 Gen 11	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL320 Gen 12	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL325 Gen 10+	

Hardware Family	Platform Type	Hardware SKU	Comments
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL325 Gen 10+ v2	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL325 Gen 12	
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL345 Gen 12	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 9	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 10	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 10+	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 11	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 12	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL325 Gen 11	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL365 Gen 11	
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL385 Gen 11	
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL345 Gen 11	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL340 Gen 12	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 9	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 10	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 10+	

Hardware Family	Platform Type	Hardware SKU	Comments
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 11	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380a Gen 11	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 12	
HPE ProLiant	Intel tower server	HPE ProLiant ML350 Gen 12	
HPE Synergy ¹	Intel single slot blade	HPE Synergy 480 Gen 11	
HPE Synergy ¹	Intel single slot blade	HPE Synergy 480 Gen 12	
HPE Scale Up ²		HPE Scale-up Server 320 4 socket nPAR 0	
Dell		Dell PowerEdge R660	iSCSI, FC, NFS
Dell		Dell PowerEdge R670	iSCSI, FC, NFS
Supermicro	Intel 2 RU server	Supermicro SYS-621H-T N12	
xFusion		Fusion Server 1288H V7	

¹ For Synergy hardware device support, review the latest SSP published for Ubuntu at https://support.hpe.com/docs/display/public/synergy-sw-release/OS_Support.html. Please note that HPE Synergy D3940 is not supported, and for additional information on Ubuntu support in HPE Synergy, refer to the **Customer Notice a00129603**.

² HPE Compute ScaleUp Server 3200 4 socket nPAR only limited validation completed with below kernel boot parameters: `console=ttyS0,115200 earlyprintk=ttyS0,115200 mce=2 tsc=nowatchdog nmi_watchdog=0 pci=nobar intel_iommu=on iommu=pt`

Table 2. Storage Hardware Support

Vendor	Hardware Family	Platform Type	Comments
Dell	Dell	PowerStore 4.0.0.2	iSCSI, FC, NFS
Dell	Dell Unity	Dell EMC Unity XT 880F	
Dell	Dell PowerStore	Dell PowerStore	

Vendor	Hardware Family	Platform Type	Comments
Hitachi Vantara		VSP G/Fxx0	Firmware SVOS RF9.6; Fibre Channel
HPE	HPE Alletra Storage	HPE Alletra 5000 (5010, 5030, 5050) (iSCSI)	Update storage hardware to the latest available firmware
HPE	HPE Alletra Storage	HPE Alletra 6000 (6010, 6030, 6050, 6070, 6090) (iSCSI)	Update storage hardware to the latest available firmware
HPE	HPE Alletra Storage	HPE Alletra 9000 (Fibre Channel)	Update storage hardware to the latest available firmware
HPE	HPE Alletra Storage	HPE Alletra Storage MP B 10000 (iSCSI, Fibre Channel)	
HPE	HPE MSA Storage	HPE MSA Gen7 (2070, 2072) (iSCSI, Fibre Channel, SAS)	Update storage hardware to the latest available firmware
HPE	HPE MSA Storage	HPE MSA Gen6 (1060, 2060, 2062) (iSCSI, Fibre Channel, SAS)	Update storage hardware to the latest available firmware
HPE	HPE XP Storage	HPE XP8 (Fibre Channel, iSCSI)	Update storage hardware to the latest available firmware
Huawei		OceanStor Dorado 3000 V7	Fibre Channel
IBM		FlashSystem	v9.1.0.1; Fibre Channel and iSCSI
NetApp	All-Flash FAS	AFF A-Series (all models)	iSCSI, FC, NFS; Minimum ONTAP version: 9.14
NetApp	All-Flash FAS	AFF C-Series (all models)	iSCSI, FC, NFS; Minimum ONTAP version: 9.14
Pure Storage	FlashArray	FlashArray//X (all models)	iSCSI, FC, NFS; Minimum Purity version: FA 6.6.1
Pure Storage	FlashArray	FlashArray//XL (all models)	iSCSI, FC, NFS; Minimum Purity version: FA 6.6.1

Vendor	Hardware Family	Platform Type	Comments
Pure Storage	FlashArray	FlashArray//C (all models)	iSCSI, FC, NFS; Minimum Purity version: FA 6.7.1



NOTE

For more detail, please visit the [storage matrix](#)

Table 3. Independent Software Vendor (ISV) Support

Partner	Product Name	Product Version	Deployment	Validation Type	Resources
Aerospike	Aerospike Enterprise Edition Database	8.1.0.2		HPE	Blog
Apache	Cassandra DB	5.0.6		HPE	Blog
Veeam	Backup and Replication	12.3	Agent - based	Partner	Technical Brief , Blog (part 1, part 2, part 3) , Video
CelerData	CelerData Enterprise (StarRocks)	3.4.4			
Cohesity	DataProtect	7.1.2 and later	Agent - based	Partner	Technical Brief , TekTalk - on - Point , Blog
Cohesity	NetBackup	11	Agent - based	Partner	Release Notes
Commvault ²	Commvault Cloud Backup and Recovery	11.40	Agent-Based, Image - based	Partner	Technical Brief , Tektalk-on-Point , Blog
HP	HP Anyware	25.03.1		HPE	Technical Paper
OpenText	OpenText Analytics Database (Vertica)	26 or 25.2		HPE	

Partner	Product Name	Product Version	Deployment	Validation Type	Resources
Oracle ¹	Database	19c	Single instance only; Oracle RAC support TBD	HPE	Technical Brief, Blog, TekTalk - on - Point
Oracle	MySQL Community Edition	8.4.6			
Medical Informatics Corp. (MIC)	Sickbay Clinical Platform	3.45.4.0		HPE	
Microsoft ¹	SQL Server	SQL Server 2016, 2017, 2019, 2022	Single instance with Availability Groups	HPE	Technical Brief, Blog, TekTalk-on-Point
MongoDB ¹	Enterprise Advanced	8.0.0		HPE	Technical Brief, Blog, Video
Elastic ¹	Elastic Stack	9.0.0 - 1		HPE	Technical Paper
Citrix ^{1,3}	Citrix Virtual Apps and Desktops	7.2402 LTSR CU1		HPE	
Omniissa ^{1,3}	Horizon	8.13.1 (Build 11490723527)		HPE	Blog
Milestone	XProtect	Professional+, Expert, Corporate	2025 R2		
PostgreSQL Global Development Group	PostgreSQL	17.6			
SMIInformation	ClusterPlex	5.0.5.5		Partner	ClusterPlex Support Matrix
Splunk	Splunk Enterprise	9.4.3	Distributed clustered deployment, single site	HPE	
Splunk	Splunk Enterprise SmartStore	9.4.3	Distributed clustered deployment, single site	HPE	
Thales Group	CipherTrust Manager	2.22.0 and 2.11.1		Partner	

Partner	Product Name	Product Version	Deployment	Validation Type	Resources
Vali Cyber	ZeroLock	3.9.8			
Veeam	Veeam Backup & Replication	13.0.1	Image-based with Changed Block Tracking (CBT)	Partner	Blog , Blog , Video
Virtual Cable	UDS Enterprise	4.0 and above			

¹ Applications have been validated within the bounds of the supported VM Essentials functionality. Always check the VM Essentials feature list to determine whether specific functionality is supported by the HVM hypervisor (ex. shared disk access).

² Protection of NFS and GFS2 datastores

³ For the manual pool use case where desktop lifecycle is not managed and instant clones are not applicable. Improved user experience, increased user density, and cost efficiency with vGPU support in future HPE Morpheus VM Essentials releases.

Most modern applications like databases were designed with very “loose” dependence on hardware infrastructure. They can typically run on a variety of hypervisors including virtual machines and containers. The respective ISV vendor typically only specifies the supported underlying operating system (Guest OS) but does not require certification of any hypervisor. However, there can be specific features that a customer deployment of these applications requires at a hypervisor or infrastructure level. For example, a Microsoft SQL Server Failover cluster instance requires a shared disk between multiple SQL Server VMs. Oracle, similarly, requires shared disks for an Oracle Real Application Cluster (RAC) setup. Therefore, it needs to be always validated whether the specific deployment requires certain features and whether these are supported by VM Essentials in its latest release.

Select ISV applications require “full stack” certifications including OS, hypervisor, compute and storage devices, or even the specific storage connectivity protocol. SAP HANA and related SAP applications are a typical example; so are some Healthcare Electronic Health Record (EDR) applications. If you or your customer plans on running one of these applications, please reach out to your HPE account team.

Table 4. Hypervisor OS Compatibility and Interoperability Matrix

OS Vendor	OS Family	Compute Platform	Storage Platform
Canonical	Ubuntu 22.04 Server, 24.04 Server	x86	Alletra; iSCSI

Table 5. Guest OS

Partner	Product Name	Product Version	Validation Type	Resources
RHEL	RHEL	8.2, 9.0, 9.3	HPE	

Partner	Product Name	Product Version	Validation Type	Resources
CentOS	CentOS	8	HPE	
SUSE	SUSE Linux Enterprise Server	15 - SP4, 15 - SP6	HPE	
Microsoft	Windows Server	2016, 2019, 2022, 2025	HPE	
Microsoft	Windows 11	24H2	HPE	
Microsoft	Windows 10		HPE	
Canonical	Ubuntu Server	22.04, 24.04	HPE	
Rocky Enterprise Software Foundation (RESF)	Rocky Linux	9.5	HPE	

Additional Resources

- Service Pack ProLiant Index Page: [Gen12 SPP](#), [Gen11 SPP](#), [Gen10+/Gen10 SPP](#)
- [Spock Storage Configuration Matrix](#)
- [OS Support Matrix](#)
- [HPE Support Center for VME](#)