

# **VSAN FEATURES BY VERSION MATRIX**

## **VMwareStorage**

# vSAN Features by Version Matrix

vSAN Features																		
vSAN version	vSAN 6.5		vSAN 6.6		vSAN 6.7		vSAN 6.7U1		vSAN 6.7U3		vSAN 7.0		vSAN 7.0 U1		vSAN 7.0 U2		vSAN 7.0 U3	
ESXi version	6.5GA		6.5-EP02		6.7GA		6.7U1		6.7U3		7.0GA		7.0U1		7.0 U2		7.0 U3	
ESXi build minimum build number	build-4564106		build-5310538		build-8169922		build-10302608		build-14320388		build-15843807		build-16850804		build-17630552		build-18644231	
Release Date	November-2016		April-2017		April-2018		October-2018		August-2019		April-2020		October-2020		March-2021		October-2021	
	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash	hybrid	all-flash
HTML5 vSphere Client					x	x	x	x	x	x	x	x	x	x	x	x	x	x
Flash vSphere Web Client	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
vSAN Health	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Fault Domains	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Stretch Cluster	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2-node	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2-node direct connect	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Deduplication and Compression		x		x		x		x		x		x		x		x		x
RAID-5/6 erasure coding		x		x		x		x		x		x		x		x		x
Software checksum	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
IOPS limit policy	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ISCSI service	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WSFC with vSAN [SCSI]					x	x	x	x	x	x	x	x	x	x	x	x	x	x
Stretch cluster local protection RAID-1			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Stretch cluster local protection RAID-5/6				x		x		x		x		x		x		x		x
Primary Site Override for stretched clusters					x	x	x	x	x	x	x	x	x	x	x	x	x	x
vSAN encryption			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Unicast vSAN Networking			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PowerCLI	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
vSAN vROps Dashboards	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
vSAN vROps Dashboards in HTML5 vSphere Client					x	x	x	x	x	x	x	x	x	x	x	x	x	x
Smart & partial repairs			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Manual resync throttling			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Adaptive Resynchronization			x	x														
Resync Fairness					x	x	x	x	x	x	x	x	x	x	x	x	x	x
Reactive rebalance	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Proactive rebalance			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Support Insight (Humbug)			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Host-pinning as a policy (RPQ only)					x	x	x	x	x	x	x	x	x	x	x	x	x	x
Mixed MTU with Witness Traffic Separation							x	x	x	x	x	x	x	x	x	x	x	x
TRIM/UNMAP VM Guest Support							x	x	x	x	x	x	x	x	x	x	x	x
Guided HCI cluster creation and extension							x	x	x	x	x	x	x	x	x	x	x	x
VUM based firmware update							x	x	x	x	x	x	x	x	x	x	x	x
Network Card Firmware/Driver HCL check							x	x	x	x	x	x	x	x	x	x	x	x
Nested FD for Non-StretchCluster (RPQ only)							x	x	x	x	x	x	x	x	x	x	x	x
PowerCLI enhancement for vSAN Objects							x	x	x	x	x	x	x	x	x	x	x	x
Performance enhancements									x	x	x	x	x	x	x	x	x	x
Upload/Download vmdk from vSAN									x	x	x	x	x	x	x	x	x	x
Enhanced resync & capacity monitoring									x	x	x	x	x	x	x	x	x	x
Parallel resynchronization									x	x	x	x	x	x	x	x	x	x
Performance metrics and troubleshooting utility									x	x	x	x	x	x	x	x	x	x
vSAN ISCSI online LUN resizing									x	x	x	x	x	x	x	x	x	x
Cloud Native Storage									x	x	x	x	x	x	x	x	x	x
Integrated File Service NFS v3/4.1 on vSAN											x	x	x	x	x	x	x	x
vLCM Unified Cluster Lifecycle management											x	x	x	x	x	x	x	x
Improved Capacity view using SRM/VR											x	x	x	x	x	x	x	x
Automatic Policy Compliance in 2node vSAN											x	x	x	x	x	x	x	x
Integrated File Service SMB on vSAN													x	x	x	x	x	x
vSAN HCI Mesh													x	x	x	x	x	x
vSAN Data Persistence Platform													x	x	x	x	x	x
vSAN Direct Configuration													x	x	x	x	x	x
vSAN Shared Witness for 2-Node													x	x	x	x	x	x
Compression-only														x		x		x
Data-in-transit encryption														x	x	x	x	x
Secure wipe														x	x	x	x	x
vSAN IO Insight														x	x	x	x	x
Capacity Reservation														x	x	x	x	x
Ability to override default gateway through the UI														x	x	x	x	x
vLCM support for Lenovo Readynodes														x	x	x	x	x
Performance Monitoring vSAN Direct Integration																x	x	x
vSAN over RDMA																	x	x
HCI Mesh Compute-Only Clusters support																	x	x
vSAN Witness In-Transit Encryption																	x	x
vSAN File Service support for 2node																	x	x
vSAN Native KMS integration																	x	x
vSAN Proactive-HA integration																	x	x
Stretch Cluster Improvement DRS Awareness																	x	x
Stretch Cluster 20-20-1 cluster size support																	x	x
vLCM enhancement Hitachi Vantara / Lenovo ThinkAgile, Dell 14G																	x	x
Improvement network monitoring and supportability																	x	x
vSAN Performance monitoring improvements																	x	x
Improved alarms integration and usability																	x	x
Driver & Firmware HCL validation for NVMe devices																		x
vSAN Witness vLCM improvement																		x
Improved Troubleshooting IO-Trip Analyzer / Network and Health																		x



**VMware, Inc. 3401 Hillview Avenue Palo Alto CA 94304 USA Tel 877-486-9273 Fax  
650-427-5001 [www.vmware.com](http://www.vmware.com)**

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