

vSAN Features

vSAN version Release Date	Category	vSAN 7.0		vSAN 7.0 U1		vSAN 7.0 U2		vSAN 7.0 U3		vSAN 8.0 (OSA)		vSAN 8.0 (ESA)	vSAN 8.0 U1(OSA)		vSAN 8.0 U1(ESA)		vSAN 8.0 U2(OSA)		vSAN 8.0 U2(ESA)	
		April-2020	October-2020	April-2020	October-2020	March-2021	March-2021	October-2021	October-2021	November-2022	November-2022	all-flash	March-2023	March-2023	all-flash	all-flash	all-flash	all-flash	TBD	TBD
In-Place Upgrades from OSA to ESA in vSAN 8	Management	N/A																		
Per VM storage policies	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Per VMDK storage policies	Management	x	x	x	x	x	x	x	x	x	x	*1	x	x	x	x	x	x	x	
HTML5 vSphere Client	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
vSAN Health	Health & Diagnostics	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
vSAN Fault Domains	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Stretched cluster topology	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
2-node topology	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
2-node direct connect	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Cluster-based Deduplication and Compression (OSA)	Space Efficiency		x		x		x		x		x							x		
Data resilience using RAID-5/6 erasure coding (OSA)	Space Efficiency		x		x		x		x		x							x		
Software checksum	Security & Integrity	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
IOPS limit storage policy	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
ISCSI service	Data Services	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
WSFC with vSAN iSCSI	Data Services	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Stretch cluster local data resilience using RAID-1	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Stretch cluster local data resilience using RAID-5/6	Resilience		x		x		x		x		x							x		
Cluster-based Data-at-Rest encryption (OSA)	Security & Integrity	x	x	x	x	x	x	x	x	x	x		x	x			x	x		
PowerCLI	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
vSAN Aria Operations Dashboards	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Smart & partial repairs	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Manual resync throttling	Management	x	x																	
Adaptive Resynchronization	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Reactive rebalance	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Proactive rebalance	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
vSAN Support Insight (Humbug)	Health & Diagnostics	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Mixed MTU with Witness Traffic Separation	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
TRIM/UNMAP VM Guest Support	Space Efficiency	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Guided HCI cluster creation and extension	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Network Card Firmware/Driver HCL check	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Nested FD for Standard vSAN Cluster (RPQ only)	Resilience	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
PowerCLI enhancement for vSAN Objects	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Upload/Download vmdk from vSAN	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Enhanced resync & capacity monitoring	Health & Diagnostics	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Parallel resynchronization	Performance & Efficiency	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Performance metrics and troubleshooting utility	Health & Diagnostics	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
vSAN iSCSI online LUN resizing	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
CNS - Cloud Native Storage through deployment of First Class Disks	Cloud Native Storage (CNS)	x	x	x	x	x	x	x	x	x	x		*1	x	x	x	x	x	x	
vSAN File Services - NFS v3/4.1 on vSAN	Data Services	x	x	x	x	x	x	x	x	x	x		*1	x	x		*1	x	x	
vLCM Unified Cluster Lifecycle management	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
Improved Capacity view using SRM/VR	Management	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	
vSAN File Services - SMB on vSAN	Data Services																			
Disaggregation of vSAN HCI clusters to vSAN HCI clusters	Disaggregation																			
CNS - vSAN Data Persistence Platform (DPP)	Cloud Native Storage (CNS)																			
CNS - vSAN Direct Configuration	Cloud Native Storage (CNS)																			
vSAN Shared Witness for 2-Node	Management																			
Cluster-based Compression-only (OSA)	Space Efficiency																			
Cluster-based Data-in-transit encryption	Security & Integrity																			
Support of secure wipe for storage devices	Security & Integrity																			
vSAN IO Insight	Health & Diagnostics																			
vSAN "Reserved Capacity"	Management																			
Ability to override default gateway through the UI	Management																			
vLCM support for Lenovo Readynodes	Management																			
Durability components for planned maintenance events	Resilience																			
Durability components for unplanned events	Resilience																			
Performance Monitoring vSAN Direct Integration	Health & Diagnostics																			
vSAN over RDMA	Performance & Efficiency																			
Disaggregation of vSAN HCI cluster to compute-only cluster	Disaggregation																			
vSAN File Service support for 2-Node topologies	Data Services																			
vSAN Native KMS integration	Security & Integrity																			
vSAN Proactive-HA integration	Resilience																			
Stretch Cluster Improvement DRS Awareness	Resilience																			
Stretch Cluster 20-20-1 cluster size support	Scalability																			
vLCM enhancement Hitachi Vantara / Lenovo ThinkAgile, Dell 14G	Management																			
Improvement network monitoring and supportability	Health & Diagnostics																			
vSAN Performance monitoring improvements	Health & Diagnostics																			
Improved alarms integration and usability	Health & Diagnostics																			
vLCM Driver & Firmware HCL validation for NVMe devices	Management																			
vLCM Update vSAN Witness host appliance	Management																			
I/O-Trip Analyzer / Network and Health	Health & Diagnostics																			
RDT checksum	Resilience																			
Proactive Insights	Management																			
Secondary levels of resilience in 2-Node topology (using RAID-1 or RAID-5)	Resilience																			
Secondary levels of resilience in 2-Node topology (using RAID-1, RAID-5 or RAID-6)	Resilience																			
1.6TB Write Buffer Support (OSA only)	Performance & Efficiency																			
Data resilience using RAID-5/6 erasure coding at performance level of RAID-1	Performance & Efficiency																			
Adaptive RAID-5 supporting as few as three-host clusters	Space Efficiency																			
Highly CPU and space efficient, storage policy based compression	Performance & Efficiency																			
Highly CPU efficient cluster based encryption services	Performance & Efficiency																			
Native scalable snapshots	Performance & Efficiency																			
Adaptive Network Traffic Shaping	Performance & Efficiency																			
Device level failure/maintenance domain of data	Resilience																			
Removal of dedicated cache devices for better TCO and serviceability	Performance & Efficiency																			
Cross-cluster capacity sharing for Stretched Clusters	Disaggregation																			
Cross-cluster capacity sharing across vCenter Server instances	Disaggregation																			
Namespace Object customized sizing	Management																			
Skyline Health Scoring and Remediation	Health & Diagnostics																			
High Resolution Performance monitoring	Health & Diagnostics																			
VM I/O Trip Analyzer Task Scheduler	Health & Diagnostics																			
Central storage of vSAN trace logs	Health & Diagnostics																			
CNS - vSAN Data Persistence Platform (DPP) using common distributed switching																				