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CPU (cores/node, min)	16	32	48
Memory (GB/node, min)	128	256	512
Max Storage Devices for base configuration	12	18	24
Networking (GbE, min)	10	25	100
Performance for base configuration (IOPS/node, up to)	50 K	100 K	150 K

vSAN ESA Storage Cluster ReadyNode™ Hardware Guidance

Description	vSAN-SC-SM	vSAN-SC-MED	vSAN-SC-LRG
CPU (cores/node, min)	16	32	48
Memory (GB/node, min)	128	192	256
Nodes per Cluster (min)	4	6	6
Max Storage Devices for base configuration	12	18	24
Networking (E/W GbE) (min)	25	25	100
Networking (N/S GbE) (min)	10	25	25
Performance for base configuration (IOPS/node, up to)	50 K	75 K	125 K

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vSAN ESA Cyber Recovery ReadyNode™ Hardware Guidance

Description	CyberRecovery-MED	CyberRecovery-LRG
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CPU (cores/node, min)	16	24	32
Memory (GB/node, min)	128	192	256
Nodes per Cluster (min)	4	6	6
Max Storage Devices for base configuration	8	18	24
Networking (GbE, min)	10	25	25
Replication Throughput (node, up to)	150 MB/s	225 MB/s	300 MB/s

Note: Minimum number of devices across profiles must be 4

Additional Hardware Guidance

Performance Metrics

This guidance offers performance metrics for sizing based on compute-bound mixed workloads using minimum configurations. vSAN can achieve much higher IOPS for storage-bound workloads.

Storage Devices

- **Type:** NVMe TLC
- **Performance Class:** F (100 K–349 K writes/s) or higher
- **Endurance Class:** ≥ 1 DWPD
- **Capacity:** ≥ 1.6 TB
- **Min Devices per Host Supported:** 1
- **Large Capacity (> 8 TB):** Supported on ESXi 8.0 U1+
- **Read-Intensive Devices:** Supported on ESXi 8.0 U1+

Storage Devices – NVMe QLC (Cyber Recovery Only)

NVMe QLC devices are supported exclusively for the Cyber Recovery use case. They require 4K IU (Indirection Unit) devices and a minimum of 4 devices per host. QLC support requires ESXi 9.1 or later.

Attribute	Specification
Type	NVMe QLC
Performance Class	F (100 K – 349 K writes/s) or higher

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Capacity	15.36 TB or 30.72 TB
Min Devices per Host Supported	4 (4K IU devices only)
Minimum ESXi Version	9.1+
Supported Use Case	Cyber Recovery only

Note: QLC NVMe devices with 4K IU are supported only for Cyber Recovery deployments. This device type is not supported for vSAN HCI or Storage Cluster workloads. Minimum ESXi version required is 9.1+.

vSAN Storage Clusters

- **Min Capacity per Node:** 20 TB
- **Min Devices per Host Supported:** 2
- **vSAN SC Profiles:** ESXi 8.0 U2+

Sizing and Design Considerations

ESXi Boot	• Please refer to KB 85685 for boot guidance
Network	• Dual-port NICs recommended for redundancy.
Device Capacity	• The capacity point is for reference only. You may select alternative capacity points as long as the Node Capacity and Performance/Endurance requirements are satisfied.
# Storage Tier Devices	• Increasing the number of devices improves vSAN FSA performance.

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Design Considerations

Class of SSDs

Design Considerations Used for vSAN LBA ReadyNode™ Profiles

The SSD class you select directly influences the overall system performance.

Device Protocol	The ReadyNode™ is certified for a specific device type (NVMe). Changing the device type is not permitted.
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SSD Performance Classes

SSD PERFORMANCE CLASS	WRITES PER SECOND
F	100,000 - 349,999
G	350,000+

Other Considerations

- **vSAN-HCI-SM** or **vSAN-SC-SM**: ESXi 8.0 P04+ (see [KB 372309](#) and [KB 372311](#))



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