

System Requirements

To ensure the promised performance and stability, the systems running StarWind solutions must meet the minimum system requirements that are listed below:

Virtual SAN (VSAN) for Hyper-V

CPU	Minimum one physical 1.7 GHz processor
RAM	4GB If using cache or Asynchronous Replication, an appropriate amount of RAM should be added
Network	<p>Heartbeat failover strategy: 2x network interfaces (1xStarWind Synchronization and 1xiSCSI traffic/Heartbeat) + 1x network interface (Management/Heartbeat)</p> <p>At least one Heartbeat interface must be on a separate network adapter and redundant</p> <p>Node Majority failover strategy: 2x network interfaces (1xStarWind Synchronization and 1xiSCSI traffic) + 1x network interface (Management/Witness node)</p>
Network Bandwidth	<p>Synchronous Replication: Minimum 1 GbE or higher</p> <p>Latency requirements: <5 ms</p> <p>Asynchronous Replication: Minimum 100 MbE or higher. The data link must be capable to transmit the replicated amount of data within the desired backup window</p>
Hypervisor	Supported Windows Server version: 2012 or later
Storage	<p>3 GB disk space reserved for installation and logging. The StarWind virtual disks must reside on the separate partition from the StarWind installation disk</p> <p>Hardware RAID controller is highly recommended</p> <p>Microsoft Storage Spaces is supported</p> <p>Asynchronous Replication: The storage with replication journals on the primary server should have higher or equal write performance in comparison with the production storage array (on 100% sequential write with 8MB block size). The space reserved for the journal disk must exceed the amount of data written to the production storage array within the time frame between snapshots plus extra 25%</p>

Software RAID implementations are NOT supported. For recommended RAID settings, please, read the [KB article](#).

IMPORTANT NOTE: Server with LFS devices and Data Recovery (DR) server (in case of Asynchronous Replication) should fit the [LFS device requirements](#).

Virtual SAN (VSAN) for vSphere

CPU	Minimum 4 virtual 1.7 GHz processors reserved
RAM	4GB If using cache, an appropriate amount of RAM should be assigned
Network	<p>Heartbeat failover strategy: 2x network interfaces (1xStarWind Synchronization and 1xiSCSI traffic/Heartbeat) + 1x network interface (Management/Heartbeat)</p> <p>At least one Heartbeat interface must be on a separate network adapter and redundant</p> <p>Node Majority failover strategy: 2x network interfaces (1xStarWind Synchronization and 1xiSCSI traffic) + 1x network interface (Management/Witness node)</p>
Network Bandwidth	<p>Synchronous Replication: Minimum 1 GbE or higher</p> <p>Latency requirements: <5 ms</p>
Hypervisor	Supported vSphere version: 5.5 or later
Storage	<p>20 GB Virtual Disk reserved for OS. The StarWind virtual disks must reside on the separate partition from the StarWind installation disk</p> <p>All Virtual Disks must be Thick Provision Eager Zeroed or the entire HBA/RAID controller must be passed through to the Virtual Machine</p>

For recommended RAID settings, please, read the [KB article](#).

Virtual Tape Library (VTL)

CPU	Minimum one 1.7 GHz processor
RAM	4GB
Network	1 NIC interface (VTL traffic) + 1 NIC (Management)
Network Bandwidth	Minimum 100 MbE or higher Latency requirements: 100 ms or less
Hypervisor	Supported Windows Server version: 2012 or later
Storage	3 GB disk space reserved for installation and logging. The StarWind virtual disks must reside on the separate partition from StarWind installation disk
Supported Backup	Acronis Backup (10 – 12.5), ArcServe Backup (11.5 – 17), ArcServe UDP (5.x – 7.0), Bacula (9.2.0 – 9.6.6), Commvault (9.0 – 11.20), EMC AVAMAR (via ADMe) (6.1 – 7.5), EMC NetWorker (7.6 – 19.2), IBM TSM & Spectrum Protect (6.2.2 – 8.1.11), HP DataProtector (7.x – 9.0), Microsoft DPM* (2012 – 2019), Unitrends (9.1 – 10), Veeam Backup & Replication (9.0 – 10.0), Veritas/Symantec BackupExec (12.x – 20.6), Veritas/Symantec NetBackup (6.x – 8.3), Quest NetVault Backup (12.x – 13.x)

*Microsoft DPM 2016 may require additional tweaks due known connection stability issues with LTO Tape Libraries.

Software RAID implementations are NOT supported. For recommended RAID settings, please, read the [KB article](#).

IMPORTANT NOTE: In order to fit the ransomware resiliency, the VTL should be located on the dedicated storage/host which must be isolated from the production environment. Please read the following document for details: [Backing up StarWind Virtual SAN Environment: Best Practice](#).

Management Console

CPU	Minimum one 1 GHz processor
RAM	256MB
Network	1 NIC interface
Network Bandwidth	Minimum 100 MbE or higher
Hypervisor	Server OS: Microsoft Windows Server 2008 R2; 2012; 2012 R2; 2016 Desktop OS: Windows 7; 8; 8.1; 10
Storage	256 MB disk space reserved for installation and logging

IMPORTANT NOTE: Windows Server Core or Microsoft Hyper-V Server as a base OS is incompatible with the StarWind Management Console local installation. In this case, StarWind Management Console should be installed on any other computer. Please note that for remote management with default settings, port 3261 must be open.

Contacts



Phone number

+1 617 449 77 17
+44 2037 691 857
+34 629 03 07 17



Fax

+1 617 507 58 45



Voice Mail

+1 866 790 26 46



Customer Support Portal

www.starwind.com/support

Support Forum

www.starwind.com/forums

Sales

sales@starwind.com

General Information

info@starwind.com

To learn more, visit www.starwind.com