

## StarWind iSCSI SAN V5.8 with Active-Active High Availability

### Automatic Failover and Failback with Fast Synchronization

#### STARWIND iSCSI SAN V5.8 FEATURES

- Active-Active High Availability
- Synchronous Mirroring with Automatic Failover
- Failback with Fast Synchronization
- CDP & Snapshots
- Thin Provisioning
- High Speed Caching

#### STARWIND iSCSI SAN BENEFITS

- 99.999% uptime
- High performance
- Reliable data protection
- Fast data recovery
- Simplified installation and management
- Hardware independence
- Optimized storage space utilization

#### CERTIFICATIONS



### High Availability of Stored Data

With StarWind you can rapidly configure 2-node cluster that ensures high reliability and fault-tolerance of the storage system. Both servers of an HA cluster operate in the Active-Active mode: they continuously monitor the state of each other by means of a Heartbeat network. If for any reason one node goes offline, the partner server carries the entire storage workload. Thus, users preserve permanent access to stored data, applications, and services.

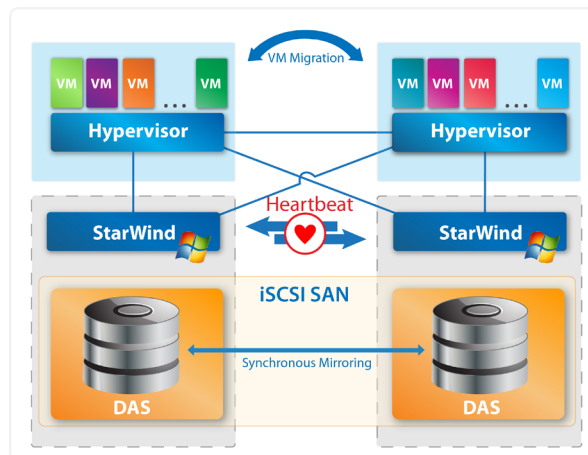
Such storage architecture delivers 99.999% uptime and high performance. StarWind extends redundancy, eliminates a single point of failure, and ensures business continuity at the highest performance level and a minimum price.

### Synchronous Mirroring

Synchronous Data Mirroring handles real-time replication that allows for two or more redundant storage nodes to store data simultaneously. This feature ensures instant update and synchronization of data on two distributed storage nodes.

### Automatic Failover and Failback with Fast Synchronization

StarWind HA manages Synchronous Mirroring and Automatic Failover on a per-node basis. Even if a node or site fails, your server applications stay continuously available. StarWind also provides Failback with the proprietary Fast Synch technology. It restores a failed storage node and performs the rapid synchronization of data between the nodes of an HA cluster.



Scheme: StarWind HA Configuration

### Live, Point-in-Time Snapshots

Snapshots instantly capture a consistent state of the data that you have stored on the SAN. You can perform the Snapshots manually or have them scheduled. If you need to recover an entire volume, you can roll back to the snapshot of the volume at any specific point-in-time. If you want to restore individual files or folders, you can simply mount a snapshot and retrieve that data.

Almost 90% of data is lost due to human error, but your storage will be strongly protected with the Snapshots technology.

### Fast Disaster Recovery

With the StarWind solution, you can create a truly robust DRP. Synchronous Data Mirroring enables volume/site failover and recovery providing 24/7 business continuity and uninterrupted access to stored data. CDP (Continuous Data Protection) provides automatic or manual Microsoft VSS-compatible snapshots, volume cloning, and incremental backups with an unlimited number of rollback points.

## RECOMMENDED SYSTEM

- Windows Server 2008 R2 (with SP 1 installed) or Windows Server 2003 R2
- 2 GHz Intel Xeon class processor
- 4 GB of RAM
- 1 GB for application data and log files
- Dedicated disk volumes
- 1 or 10 GbE Ethernet (10 GbE is recommended)

## STARWIND SOFTWARE IS COMPATIBLE WITH

- MS Windows Server 2008 R2
- MS Windows Server 2008
- MS Windows Server 2003 R2
- MS Windows Server 2003

## TECHNICAL SUPPORT

StarWind provides qualified technical support for your SAN. StarWind support team is always available to help you at: [www.starwindsoftware.com/support](http://www.starwindsoftware.com/support)

## READY FOR A TEST DRIVE?

You can download StarWind in order to evaluate and test it. Visit us now at: [www.starwindsoftware.com/starwind-iscsi-san-overview](http://www.starwindsoftware.com/starwind-iscsi-san-overview)

## Thin Provisioning

This feature offers very efficient disk space utilization. Administrators no longer need to predict how much storage will be required in the future and purchase disks in advance. StarWind Thin Provisioning allocates as much space as is currently demanded by applications.

## Centralized Management Console

StarWind iSCSI SAN comes with an advanced and enhanced Centralized Management Console. It has an intuitive interface and is truly simple-to-use. From the StarWind Console you can manage your entire storage infrastructure and easily perform the provisioning of disk space, CDP/Snapshots and Synchronous Mirroring.

## Advanced High Speed Caching

StarWind delivers 64-bit advanced caching that significantly accelerates storage I/O performance. The cache uses the host system memory to anticipate disk read and group writes. This feature is ideal for any I/O intensive server applications and especially for databases like Microsoft SQL Server 2008 R2 or Microsoft Exchange Server 2010.

## Security

The Challenge Handshake Authentication Protocol (CHAP) is used to provide the client machines with access privileges to volumes on the SAN. Reliable IPsec encryption ensures secure tunneling over IP connections. StarWind integrates seamlessly with Microsoft Windows NTFS compression and encryption.

## Deploy Highly Available Storage within a Few Minutes

StarWind is a user-friendly solution with wizard-driven configuration and centralized management. You can install StarWind software and configure your own SAN in a couple of minutes.

StarWind is a hardware-agnostic solution that runs on your existing servers and uses common off-the-shelf hardware (COTS). The standard hardware is easy-to-manage, available at any local store and has affordable price. Thus, StarWind HA storage can be deployed at a very moderate cost, thereby guaranteeing reduced Total Cost of Ownership (TCO) and Capital Expenditures (CapEx).

## About StarWind

StarWind Software, a member of VMware Ready and Citrix Ready programs, provides innovative software for creating and managing virtualized storage infrastructures. The company provides an extensive suite of advanced technologies for storage management and VM backup & restore in its leading products - StarWind iSCSI SAN, StarWind Native SAN for Hyper-V, and Hyper-V/VMware Backup. StarWind has more than 30,000 satisfied customers globally including SMBs, enterprises, governments, educational institutions, and Fortune 1000 companies.

Read more at: [www.starwindsoftware.com](http://www.starwindsoftware.com)