

# StarWind® Virtual SAN™ for Hyper-V

## 100% Less Hardware!

### KEY POINTS:

✓ **Minimalistic Hardware Footprint – Reduced CapEx and OpEx.**

StarWind® Virtual SAN™ for Hyper-V runs just two commodity servers and existing networking equipment, lowering both – the purchase and the service expenditures.

✓ **Simplicity.**

Using StarWind® Virtual SAN™ for Hyper-V means less hardware to manage. Additionally, being a native Windows application, StarWind doesn't require any special skills or knowledge from the IT specialist.

✓ **Agility and Performance.**

With all the benefits and savings, StarWind® Virtual SAN™ for Hyper-V has High Performance and Fault-Tolerance uncompromised.

StarWind® Virtual SAN™ requires no proprietary hardware and will run on only two commodity servers.

StarWind® Virtual SAN™ is a native Windows application, usable by any Hyper-V administrator without additional training.

### StarWind® Virtual SAN™ - no physical shared storage required

It's unnecessary to spend loads of money on proprietary hardware to deploy a Fault-Tolerant and Highly-Available virtual shared storage. In fact, any two inexpensive commodity servers will make a minimal sufficient base for StarWind® Virtual SAN™. This minimalistic hardware footprint approach saves big \$\$\$:

- CapEx is reduced because there's no need to buy expensive hardware. Affordable COTS servers and existing cabling are enough.
- OpEx is lowered because there's less hardware to maintain and service. System upgrades are resolved by purchasing more COTS servers.

In most cases, your existing hardware is enough to set up the virtual shared storage with StarWind® Virtual SAN™ for Hyper-V. This reduces the CapEx almost to ZERO.

## TECHNICAL SUPPORT

The qualified StarWind support team is always ready to assist!

### CONTACT:

[www.starwindsoftware.com/support](http://www.starwindsoftware.com/support)

\* *Commercial licenses of StarWind® Virtual SAN™ include one year of FREE standard technical support.*

## Test drive of StarWind® Virtual SAN™ is available!

Download a 30-day free trial of  
StarWind Virtual SAN:

[www.starwindsoftware.com](http://www.starwindsoftware.com)



## KISS (Keep It Short and Simple) principle in action

Less hardware means less trouble. With StarWind® Virtual SAN™ there's no need to manage tons of complex dedicated hardware. Any Hyper-V administrator will handle the job, because StarWind® Virtual SAN™ is a native Windows application. No SAN management skills or Unix knowledge required!

The absence of requirements for additional staff, special training and specialized service brings down the OpEx even further, saving you big bucks.

## Fault Tolerance, High Performance and Extreme Versatility

### High Availability

With all its economy and simplicity, StarWind® Virtual SAN™ for Hyper-V still creates a Highly-Available and virtual shared storage. Two- and three-way synchronous replication guarantees the safety of data, while asynchronous replication creates a remote and secure disaster recovery site, even with poor network performance.

## High-performance RAM and flash caching

Virtual SAN reduces random reads and spoofing writes using multi-tier RAM and SSD flash caching. The distributed nature of StarWind's write-back caching guarantees that if a host fails, a VM will use replicated data from the other host to start a VM from a "hot" cache state, eliminating any drops in performance.

## In-line deduplication and thin provisioning with space reclaim

Space reduction technologies enable automatic allocation of free space in accordance with current needs and save only unique data to the storage. Elimination of identical writes increases the life of expensive flash devices.

## Log-structured file system (LSFS)

The LSFS architecture replaces multiple small random writes with one big sequential write, and therefore ensures high throughput and reduced latency within the cluster. It distributes VM workloads evenly and eliminates the I/O blender effect.