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deployment options: hyper-converged and converged, also known as disaggregated. Familiarize yourself with the advantages of each to decide which is right for you. Steps 1-3 below apply to both deployment options. Step 4 is only needed for converged deployment.

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Deployment options. Storage Spaces Direct was designed for two distinct deployment options: Converged. Storage and compute in separate clusters. The converged deployment option, also known as 'disaggregated', layers a Scale-out File Server

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(SoFS) atop Storage Spaces Direct to provide network-attached storage over SMB3 file shares.

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4 Microsoft Storage Spaces Direct (S2D) Deployment Guide used in this solution,

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each server node is itself a JBOD (just a bunch of disks) repository. As demand for storage and/or compute resources grow, additional ThinkAgile MX Certified Nodes can be added into the environment to provide the necessary storage expansion.  
S2D performance

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## Microsoft Storage Spaces Direct (S2D) Deployment Guide

Introduced in Microsoft Windows Server 2016, Storage Spaces Direct (S2D) is Microsoft ' s new software-defined storage solution that allows enterprises to create logically defined storage volumes across hosts using locally attached storage. With

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the release of Windows Server 2019, it has continued to mature and is an even more powerful solution.

Storage Spaces Direct Deployment Best Practices.

Storage Spaces Direct solution overview  
Solution configuration General hardware

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preparation Deployment scenarios Solution  
performance optimization Create failover  
cluster Enable and configure Storage Spaces  
Direct Cluster set creation Summary Lenovo  
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Microsoft Storage Spaces Direct (S2D)

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Dell EMC Microsoft Storage Spaces Direct Ready Nodes are built on Dell EMC PowerEdge R730xd, 740xd Storage Spaces Direct Ready Node and R640 Storage Spaces Direct Ready Nodes that provide the storage density and compute power to maximize the benefits of Storage Spaces

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Direct and the advanced feature sets in  
Windows Server 2016.

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Click Fabric > Storage > Arrays. Right-click  
the cluster > Manage Pool, and select the  
storage pool that was created by default. You

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can change the default name, and add a classification. To create a CSV, right-click the cluster > Properties > Shared Volumes. In the Create Volume Wizard > Storage Type, specify the volume name, and select the storage pool.

Deploy a Storage Spaces Direct hyper-

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converged cluster in ...

You can deploy Storage Spaces Direct (sometimes called S2D) on a cluster of physical servers or on virtual machine guest clusters as discussed in this topic.

Using Storage Spaces Direct in a virtual machine ...

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In general we recommend the following guidelines for Storage Spaces deployments: All hardware should be uniform. Select only 1 model of JBOD, 1 model of SAS HBA, and try to limit the number of drive models to 2. Ensure that all hardware (drives, servers, NICs, and controllers) has the latest available firmware version.

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Storage Spaces Deployment Guide for  
Automation Scripts ...

Storage Spaces Direct works with direct-attached SATA, SAS, NVMe, or persistent memory (PMem) drives that are physically attached to just one server each. For more help choosing drives, see the Choosing

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Deployment Guide drives and Understand and deploy persistent memory topics.

Storage Spaces Direct Hardware Requirements | Microsoft Docs and Storage Spaces Direct. Dell EMC Microsoft Storage Spaces Direct Ready Nodes can be ordered with the operating

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System pre-installed from the factory with OEM license or bare metal for customers who already have Volume License agreements with Microsoft. The Storage Spaces Direct Cluster deployment can be done in two ways:

R640 Storage Spaces Direct Ready Nodes -

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Dell EMC Microsoft Storage Spaces

Direct Ready Nodes are preconfigured with certified components, tuned and optimized to run Storage Spaces Direct They have been validated and tested to ensure that all components follow Dell EMC approved manufacturers ' lists (AMLs) for firmware

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and BIOS versions And they can be delivered with the complex configuration steps completed and tested in known good configurations — including hardware compatibility and driver downloads

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Ready Nodes

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Two deployment options are possible for Storage Spaces Direct. In the first option, the storage and compute cluster are kept separate. This method, which is known as converged or disaggregated deployment, allows for scaling of storage and compute clusters in a manner that is independent of each other.

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Stack HCI 2-Node ...

Storage Spaces Direct can be configured as a standalone software -defined storage array supporting external physical and virtual servers, or it can be deployed integrated with Hyper -V to provide virtual storage service

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as part of a hyper -converged infrastructure solution. This RA uses the latter case. High-bandwidth Ethernet Storage Network

Hyper Converged Infrastructure Using  
Microsoft Hyper-V ...

Deployment Guide focuses on deploying a  
hyper-converged infrastructure solution on

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Dell EMC Ready Nodes for Windows Server 2016 with Hyper-V and Storage Spaces Direct. This deployment guide includes an overview of the solution infrastructure, guidance to integrate the solution components, and instructions on preparing and deploying the solution infrastructure.

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Stack HCI | Dell US

In a Hyper-V deployment, SMB Direct is used to create a high throughput, low latency SMB connection to remote storage using RDMA without utilizing either hosts' CPU. With this SMB on steroids,

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it 's easy to see that RDMA has many potential applications for solutions which utilize SMB 3.0. So how do you turn it on?

How to configure RDMA over Converged Ethernet (RocEv2)

At Microsoft Ignite 2016 I did a demo at the 28-minute mark as part of the Meet

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Windows Server 2016 and System Center  
2016 session. I showed how Storage Spaces  
Direct can deliver massive amounts of IOPS  
to many virtual machines with various  
storage QoS settings.

Storage Spaces Direct throughput with  
iWARP - Microsoft ...

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Dell EMC Microsoft Storage Spaces Direct Ready Nodes are pre-configured with certified components and validated building blocks that can simplify ordering and reduce deployment risks while providing a superb customer support experience. Storage Spaces Direct in Windows Server 2016

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