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Storage Spaces Direct  
Deployment Guide

# Microsoft Storage Spaces Direct Deployment Guide

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## **Microsoft Storage Spaces Direct**

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## **Deployment**

Deploy Storage Spaces Direct Step 1: Deploy Windows Server. The first step is to install Windows Server on every server that will be in the cluster. Step 2: Configure the network. If you're deploying Storage Spaces Direct inside virtual machines, skip this section. Step 3: Configure Storage Spaces ...

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## **Deploy Storage Spaces Direct | Microsoft Docs**

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-

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

## **Storage Spaces Direct overview | Microsoft Docs**

Microsoft just published an Azure template to deploy a Storage Spaces Direct scale-out file server! You can use

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the template to create your deployment, or use the steps in this article. We recommend deploying your SOFS with DS-series VMs and premium storage data disks, where there are the same number and size of data disks on each VM.

## **Deploy a two-node Storage Spaces**

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## **Direct SOFS for UPD ...**

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



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storage expansion. S2D performance

## **Microsoft Storage Spaces Direct (S2D) Deployment Guide**

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

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provide the storage density and compute power to maximize the benefits of Storage Spaces Direct and the advanced feature sets in Windows Server 2016.

**Dell EMC Microsoft storage spaces  
direct ready nodes | Dell US**

Dell EMC Microsoft Storage Spaces

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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

## **Dell EMC Microsoft Storage Spaces**

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## **Direct Ready Nodes ...**

When you set up the cluster, remember to select the Enable Storage Spaces Direct option on the General Configuration page of the Create Hyper-V Cluster wizard. -In Resource Type, select Existing servers running a Windows Server operating system, and select the Hyper-V hosts to add to the

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cluster. If S2D is enabled, you must validate the cluster.

## **Deploy a Storage Spaces Direct hyper-converged cluster in ...**

Using Storage Spaces Direct in guest virtual machine clusters Deploying in Azure IaaS VM guest clusters. Azure templates have been published

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decrease the complexity, configure best... Requirements for guest clusters. The following considerations apply when deploying Storage Spaces Direct in a... Not ...

## **Using Storage Spaces Direct in a virtual machine ...**

Storage Spaces Direct works with direct-

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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 drives and Understand and deploy persistent memory topics.

## **Storage Spaces Direct Hardware Requirements | Microsoft Docs**

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Storage Spaces Direct implements an algorithm that de-randomizes writes before de-staging them, to emulate an IO pattern to disk that seems sequential even when the actual IO coming from the workload (such as virtual machines) is random. This maximizes the IOPS and throughput to the HDDs. Caching in deployments with drives of all three



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## **Understanding the cache in Storage Spaces Direct ...**

Storage Spaces Direct solution overview  
Solution configuration General hardware  
preparation Deployment scenarios  
Solution performance optimization  
Create failover cluster Enable and

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configure Storage Spaces Direct Cluster set creation Summary Lenovo Professional Services. To view the document, click the Download PDF button.

## **Microsoft Storage Spaces Direct (S2D) Deployment Guide ...**

Microsoft Windows Server 2016 Hyper-V

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certainly gives customers many options when it comes to how compute and storage resources are deployed with Storage Spaces Direct. Windows Server 2016 Storage Spaces Direct can be deployed in the Hyperconverged and Disaggregated models of deployment. Each has use cases and benefits.

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## **Hyper-V Storage Spaces Direct Disaggregated vs ...**

Dell EMC Microsoft Storage Spaces  
Direct Ready Nodes are built on Dell  
EMC PowerEdge R730xd, 740xd Storage  
Spaces Direct Ready Node, R640  
Storage Spaces Direct Ready Node and  
R740xd2 Storage Spaces Direct Ready  
Node, and R440 Storage Spaces Direct

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Ready Node servers that provide the storage density and compute power to maximize the benefits of Storage Spaces Direct and the advanced feature sets in Windows Server 2016 and Windows Server 2019.

**Dell EMC Solutions for Microsoft  
Azure Stack HCI | Dell US**

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Overview This document describes how to deploy the Dell Storage with Microsoft Storage Spaces (DSMS) solution to use as a Scale-Out File Server (SOFS) or Converged solution. These solutions use Dell PowerEdge servers in a failover cluster and provides shared storage by supporting up to four DSMS is used to configure and manage the storage.

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## **Dell Storage with Microsoft Storage Spaces Deployment ...**

One of the new features of Windows Server 2016 is Storage Spaces Direct. This new storage feature uses the local disks within the nodes to create highly available software defined storage. There are two different deployment

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options possible for Storage Spaces Direct. In the first method, the storage and compute cluster are kept separate.

## **R640 Storage Spaces Direct Ready Nodes - Dell**

Storage Spaces Direct can be deployed two ways. In the hyper-converged deployment, the Hyper-V clusters and



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storage are on the same hardware; Microsoft says this model is more appropriate for smaller scale-out arrangements.

## **What is Microsoft Storage Spaces Direct? - Definition from ...**

Storage Spaces Direct or S2D as it is designated as, was introduced with

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Windows Server 2016. It is Microsoft's hyperconverged approach to software defined storage. In Storage Spaces Direct, each node is a "storage controller" that can utilize direct attached storage in various technologies including spindles, SSDs, or NVMe.

## **Differences between Storage**

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## **Spaces and Storage Spaces ...**

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

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turn it on?

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