

# Where To Download Microsoft Storage Spaces Direct Deployment Guide

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amusement, and a lot  
more?

## Direct

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**microsoft storage  
spaces direct  
deployment guide**

Where To  
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Microsoft

Storage Spaces

Implementing Storage

Spaces Direct in

Windows Server 2016

Windows Server 2016

Storage Spaces

Direct - END to END

Demo Install 2 Node

Hyperconverge

Clustering With

Storage Spaces

Direct on Windows

Server 2019 *How to*

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*deploy*

*Microsoft  
hyperconverged  
Storage Spaces  
storage with Windows  
Direct  
Admin Center*

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Storage Spaces  
Direct in Windows  
Server 2016

Deploying Windows  
Server 2016 Storage  
Spaces Direct (S2D)  
with two Hyper-V  
nodes ~~Software  
Defined Storage with  
Storage Spaces~~

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~~Microsoft  
Storage Spaces  
Direct  
Windows Server  
Summit 2019  
Guide~~

Direct in Windows  
Server 2016 What's  
new for Storage  
Spaces Direct |  
Windows Server  
Summit 2019  
WINDOWS SERVER  
: 2 Node Storage  
Spaces Direct Azure  
Stack HCI / Storage  
Spaces Direct (S2D)  
and Performance test  
with DiskSpd - Part 1

**Storage Spaces**

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## **Direct Overview**

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Deploy a VDI  
environment using  
Microsoft RDS on  
Storage Spaces

**Direct**  
**Inside a**  
**Google data center**  
**Windows 8 Storage**  
**Spaces Tutorial**  
**Featuring WD Green**  
**Hard Drives NCIX**  
**Tech Tips** How To  
Configure Storage  
Pool and Storage

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Spaces in Windows

10 MicroNugget: How  
to Use Storage

Spaces in Windows

10 How to configure  
Storage Pool on

Windows Server 2019  
(Step by Step guide)

Windows 10 Storage  
Spaces

Storage Spaces and  
Storage Pools on

Server 2016 - 658

Windows Server 2019



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Microsoft Training 36 - How to  
Create Hyper-V  
Storage Spaces  
Failover Cluster on  
Windows Server 2019

[Azure - Create  
custom image and  
share across regions  
using \"Shared Image  
Gallery\" !!!](#) 70-740

Lab 16 Implementing  
Storage Spaces  
Direct *WINDOWS  
SERVER : Monitoring  
2 Node Storage*

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*Spaces Direct HPE*

*SMB Solutions for  
High Availability*

*Storage with Microsoft*

*Storage Spaces*

*Direct*

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Windows 2016

Clustering Resiliency  
and Storage Spaces

*DirectConfigure*

*Windows Server 2016*

*storage spaces direct*

Taking a look at

storage spaces in

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Microsoft server 2019

Upgrade Storage

Spaces Direct (S2D)

from Windows Server

2016 to Windows

Server 2019 - Part 1

Windows Server 2019

Storage Spaces

Direct News

**MVPDays - Storage**

**Spaces Direct in**

**Windows Server**

**2019 The Good the**

**bad and Fantastic**

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## **Microsoft Storage Spaces Direct Deployment**

Storage Spaces  
Direct

Deployment  
Guide

Storage Spaces  
Direct supports two  
deployment options:  
hyper-converged and  
converged, also  
known as  
disaggregated.

Familiarize yourself  
with the advantages  
of each to decide  
which is right for you.

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Steps 1-3 below apply to both deployment options. Step 4 is only needed for converged deployment.

## Guide

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

Deployment options.  
Storage Spaces  
Direct was designed  
for two distinct  
deployment options:

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Converged Storage  
and compute in  
separate clusters. The  
converged  
deployment option,  
also known as  
'disaggregated',  
layers a Scale-out File  
Server (SoFS) atop  
Storage Spaces  
Direct to provide  
network-attached  
storage over SMB3  
file shares.

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## Microsoft

### **Storage Spaces**

#### **Direct overview |**

#### **Microsoft Docs**

#### **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

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resources grow,  
additional ThinkAgile  
MX Certified Nodes  
can be added into the  
environment to  
provide the necessary  
storage expansion.  
S2D performance

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

Introduced in  
Microsoft Windows



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Microsoft 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 the release of Windows Server 2019, it has continued to mature

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and is an even more  
powerful solution.

**Storage Spaces**

**Direct Deployment**

**Best Practices.**

Storage Spaces

Direct solution

overview Solution

configuration General

hardware preparation

Deployment scenarios

Solution performance

optimization Create

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failover cluster Enable and 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**

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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

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of Storage Spaces  
Direct and the  
advanced feature sets  
in Windows Server  
2016.

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

Click Fabric > Storage  
> Arrays. Right-click  
the cluster > Manage  
Pool, and select the

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storage pool that was created by default.

You 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

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Microsoft

## Storage Spaces

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

## Guide

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

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in this topic.

## Storage Spaces

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

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,



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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.

## **Storage Spaces Deployment Guide for Automation Scripts ...**

Storage Spaces

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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 drives and Understand and deploy persistent memory topics.

# Where To Download Microsoft **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 System pre-installed from the factory with OEM license or bare

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Microsoft 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 - Dell**

Dell EMC Microsoft

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## 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

**Dell EMC Microsoft  
Storage Spaces  
Direct 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

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independent of each other.

## **Dell EMC Solutions for Microsoft Azure 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



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Microsoft  
Storage Spaces  
Direct  
Deployment  
Guide

deployed integrated with Hyper -V to provide virtual storage service 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 ...**

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

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the solution components, and instructions on preparing and deploying the solution infrastructure.

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

In a Hyper-V deployment, SMB Direct is used to create a high

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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 turn it on?

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## **How to configure RDMA over Storage Spaces Converged Ethernet (RocEv2)**

At Microsoft Ignite  
2016 I did a demo at  
the 28-minute mark  
as part of the Meet  
Windows Server 2016  
and System Center  
2016 session. I  
showed how Storage  
Spaces Direct can  
deliver massive

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amounts of IOPS to  
many virtual  
Storage Spaces  
machines with various  
Direct  
storage QoS settings.

## Deployment

**Storage Spaces  
Direct throughput  
with iWARP -  
Microsoft ...**

Dell EMC Microsoft  
Storage Spaces  
Direct Ready Nodes  
are pre-configured  
with certified

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Microsoft 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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229766ea065

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