Dell EMC Ready Solutions for Microsoft Windows Server
Software-Defined

Microsoft WSSD hyper-converged infrastructure that provides the confidence, convenience and customer support businesses demand

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In a software-defined world, hardware matters more than ever

Today, technology is the business, representing a significant source of competitive advantage. IT is challenged to add more value to the business, by transforming with new technologies that are simpler, more streamlined and more cost-effective than traditional approaches. Dell EMC and Microsoft are answering this need with the Microsoft® WSSD program, helping blend physical and virtual infrastructures through software-defined compute, storage and network technologies for a Microsoft software-defined data center (SDDC).

Software-defined doesn’t mean the hardware doesn’t matter. The performance and reliability of the software depend heavily on the performance and reliability of the hardware. And not all hardware is created equal. Even with the right infrastructure, you still need a partner you can trust to deliver reliable solutions in optimized, tested and validated configurations with a customer support experience that keeps you up and running.

Confidence

Invest in solutions designed for Microsoft WSSD

Dell EMC Ready Solutions for Microsoft WSSD provide the confidence of known good configurations that are tested and validated by Dell EMC and Microsoft, convenient deployment and lifecycle management, delivered with the ease of solution-level support.

Convenience

Dell EMC Ready Solutions for Microsoft WSSD are convenient to implement so you can get up and running quickly — without lengthy design and build time. Dell EMC deployment services can install the solution into a new or existing environment, even if you already have a software site license. Dell EMC OpenManage integration for Microsoft System Center enables full lifecycle management of Dell EMC PowerEdge servers while monitoring storage, networking and third-party hardware to help maximize uptime. Automated updates save time, while a built-in reporting engine provides data and insights on key usage trends.

Customer support

In a virtualized environment, it can be hard to determine if the source of an issue is related to hardware or software. With Dell EMC Ready Solutions for Microsoft WSSD, you get support for both hardware and software from Dell EMC. If you call in with an issue, the call is flagged as a solution — not just as a Dell EMC PowerEdge server. This helps streamline and improve support because the architecture is deployed in a known good configuration, so support experts can help resolve the issue faster.

“From a design/architecture point of view, this is one of the easiest designs, not only because it was a progression of our core skillsets, but the technology evolving from Microsoft and Dell EMC made it a really easy choice. And the support was still there. It was the obvious choice. Microsoft Storage Spaces Direct on Dell EMC Ready Nodes is by far the most cost-effective, performant, resilient platform that you can run.”

— Lee Harrison, lead architect on the project at Fasthosts

solution overview

Are you facing any of these challenges?

“Designing and configuring new infrastructure is complex.”
As with any relatively new technology, it can take long time to design, configure, test and validate the solution within the existing environment. And, purchasing, deploying and provisioning software defined infrastructure can be difficult to get right. There’s a lot to be gained in efficiency and simplicity by utilizing SDDC technology. But many IT organizations lack the time or staff to envision, implement, test and tune new software-defined infrastructure.

“It takes a long time to design, configure, test and validate hardware.”
Every application has its own specific requirements, strengths and weaknesses at the compute, storage and networking layers. And with all the incoming requests, who has the time to research, design, configure, test and validate solutions — or to optimize performance and implement best practices? It all takes time while there are competing priorities.

“With virtualized infrastructure, it’s hard to locate the source of a problem, making it hard to know where to call for help.”
In virtualized environments, it can be hard to know which vendor to call for support, and it’s a hassle to call multiple vendors. The worst is when the server vendor blames the storage vendor, who blames the networking vendor. Wouldn’t it be nice to troubleshoot issues without having to figure out the source of a problem? How about without spending all that time being passed from one company to another?

ROBO configurations available!

No IT staff? No problem. Leverage a hyper-converged solution that keeps remote applications, virtual machines (VMs) and data storage simple. Dell EMC provides configurations for remote offices / branch offices (ROBOs), including deployment and on-site support services.

Dell EMC Microsoft Storage Spaces Direct Ready Nodes

Dell EMC offers a variety of Microsoft WSSD “HCI Premium” configurations featuring highly virtualized compute, storage and networking combined in the same cluster, making them easier to deploy, manage and scale. By eliminating traditional IT silos, customers can simplify infrastructure and easy scale up and down to meet demand.

Dell EMC Microsoft Storage Spaces Direct Ready Nodes configuration options

Dell EMC offers the largest number of Microsoft WSSD configuration choices. Dell EMC can install, configure and support both the hardware and the software as needed. The minimum deployment is two Dell EMC Ready Nodes, and the maximum is 16 Dell EMC Ready Nodes per cluster with two top-of-rack (TOR) switches and one management switch. Two-node configurations, including ROBO, support both back-to-back connectivity and RDMA-capable switches. Three or more nodes require RDMA-capable switches. Please see the deployment guide for architectural diagrams and guidance.

3 Microsoft, Storage Spaces Direct Overview, August 2018.
## Solution overview

### Configurations based on PowerEdge R740xd servers

<table>
<thead>
<tr>
<th>AIC = add in card</th>
<th>Hybrid</th>
<th>NVMe AIC+ HDD</th>
<th>All-NVMe</th>
<th>NVMe+ HDD</th>
<th>NVMe+ SSD</th>
<th>All-flash</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server</strong></td>
<td>PowerEdge R740xd</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
<td>12x 3.5&quot; front bay + 4x 3.5&quot; mid bay + 2x 3.5&quot; rear bay</td>
<td>12x 3.5&quot; front bay</td>
<td>12x 3.5&quot; front bay with 2x NVMe AICs</td>
<td>24x 2.5&quot; front bay with up to 4 NVMe drives</td>
<td>24x 2.5&quot; front bay</td>
<td></td>
</tr>
<tr>
<td><strong>Processors</strong></td>
<td>Intel® Xeon® Scalable (select Silver/Gold/Platinum options)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>128GB–1,5TB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage controller</strong></td>
<td>Internal HBA330</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage OS boot</strong></td>
<td>BOSS with dual M.2 device 240GB and 480GB (RAID 1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage cache</strong></td>
<td>Up to 6x SAS/ SATA WI/MU SSDs</td>
<td>2 or 4x SAS/ SATA WI/MU SSDs</td>
<td>2x PCIe NVMe AICs</td>
<td>2-4x PCIe NVMe drives</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage capacity</strong></td>
<td>Up to 12x 3.5&quot; NL-SAS/ SATA HDD</td>
<td>4 or 8x 3.5&quot; NL-SAS/ SATA HDD</td>
<td>Up to 12x 3.5&quot; NL-SAS/ SATA HDD</td>
<td>Up to 20x 2.5&quot; NL-SAS/SATA or SAS 10K SSDs</td>
<td>Up to 12x 3.5&quot; NL-SAS/SATA MU drives</td>
<td>Up to 20x 2.5&quot; SAS/SATA SSDs</td>
</tr>
<tr>
<td><strong>Network cards</strong></td>
<td>AIC: 1 or 2x Mellanox® ConnectX®-4 LX dual port 25GbE</td>
<td>Or 1 or 2x Dell EMC QLogic® Cavium™ FastLinQ® QL41262 dual port 25GbE</td>
<td>NDC: Certified Dell EMC dual port 10GbE + dual port 1GbE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>System software</strong></td>
<td>Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Software (optional)</strong></td>
<td>Windows Server 2016 Datacenter Edition with Microsoft Storage Spaces Direct</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Services**       | • Deployment services optional. Choose either ProDeploy or ProDeploy Plus with add-on for Microsoft Storage Spaces Direct.  
• Support services required. ProSupport Plus recommended (default), ProSupport available.  
• ProSupport for Software for Storage Spaces Direct Ready Nodes (required). |

What can big features in Windows Server do for smaller deployments? For those known in the IT industry as ROBOs — think retail stores, restaurants, bank branches, private practices, remote industrial or construction sites — we’ve added ROBO configurations. These Dell EMC Microsoft Storage Spaces Direct Ready Nodes focus on high availability for mission-critical apps, delivered with rock-solid software-defined storage for those apps in a cost-effective hyper-converged package. And, generally, ROBOs need the solution to be local, so they can operate — process transactions, or look up a patient’s records — even with intermittent Internet connectivity.
## Configurations based on PowerEdge R640 servers

<table>
<thead>
<tr>
<th></th>
<th>Hybrid</th>
<th>All-flash</th>
<th>Remote office / branch office (ROBO)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server</strong></td>
<td>PowerEdge R640</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
<td>10x 2.5” front bay</td>
<td>10x 2.5” front bay + 2x 2.5” rear bay</td>
<td>10x 2.5” front bay + 2x 2.5” rear bay</td>
</tr>
<tr>
<td><strong>Processors</strong></td>
<td>Intel Xeon Scalable (select Silver/Gold/Platinum options)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>128GB–1.5TB</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage controller</strong></td>
<td>Internal HBA330</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage OS boot</strong></td>
<td>BOSS with dual M.2 device 240GB and 480GB (RAID 1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage cache</strong></td>
<td>2x SAS/SATA WI/MU SSDs</td>
<td>2/3/4x SAS/SATA WI/ MU SSDs</td>
<td>2x SAS/SATA WI/MU SSDs</td>
</tr>
<tr>
<td><strong>Storage capacity</strong></td>
<td>4/6/8x NL-SAS/SATA or SAS 10K HDD</td>
<td>4/8/9x NL-SAS/SATA or SAS 10K HDD</td>
<td>4/6/8x NL-SAS/SATA or SAS 10K HDD</td>
</tr>
<tr>
<td><strong>Network cards</strong></td>
<td>AIC: 1 or 2x Mellanox ConnectX-4 LX dual port 25GbE Or 1 or 2x Dell EMC QLogic FastLinQ QL41262 dual port 25GbE NDC: Dual port 10GbE + dual port 1GbE</td>
<td>rNDC: Mellanox ConnectX-4 LX Or QLogic FastLinQ QL41262 dual port 25GbE</td>
<td>AIC: 1 or 2x Mellanox ConnectX-4 LX dual port 25GbE Or 1 or 2x QLogic FastLinQ QL41262 dual port 25GbE NDC: Dual port 10GbE + dual port 1GbE</td>
</tr>
<tr>
<td><strong>Remote server administration software</strong></td>
<td>Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Software (optional)</strong></td>
<td>Windows Server 2016 Datacenter Edition with Microsoft Storage Spaces Direct</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Services</strong></td>
<td>• Deployment services optional. Choose either ProDeploy or ProDeploy Plus with add-on for Microsoft Storage Spaces Direct. • Support services required. ProSupport Plus recommended (default), ProSupport available. • ProSupport for Software for Storage Spaces Direct Ready Nodes (required).</td>
<td>• ProDeploy Plus with add-on for Microsoft Storage Spaces Direct (required for ROBO deployments). • Support services required. ProSupport Plus recommended (default), ProSupport available. • ProSupport for Software for Storage Spaces Direct Ready Nodes (required) includes on-site diagnosis for ROBO locations with no IT staff.</td>
<td></td>
</tr>
</tbody>
</table>
“The network has become again the bottleneck of a system, mostly because of NVMe drives. Four NVMe drives, aggregated, are capable of generating around 11Gbps of bandwidth, which tops a 100Gb connection. They may saturate and block I/O with just four drives, so we are looking to 25Gb, which becomes 50Gb because we’re using a spine-leaf approach. Every server has two lanes, so aggregate bandwidth is 50Gbps. This helps us ensure that the network will not be too much of a storage bottleneck.”

— Antonio Cisternino, CIO, University of Pisa

“By concentrating strictly on a Dell EMC infrastructure, we reduced the complexity of network operations by a factor of 10. And we saved about $1 million by switching out the routing and switching hardware with Dell EMC solutions.”

— Network Services Director, K-12 ISD

### Configurations based on PowerEdge R440 servers

<table>
<thead>
<tr>
<th></th>
<th>Hybrid</th>
<th>All-flash</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ready Node</td>
<td>PowerEdge R440</td>
<td></td>
</tr>
<tr>
<td>Chassis</td>
<td>10x 2.5&quot; front bay</td>
<td></td>
</tr>
<tr>
<td>Processors</td>
<td>Intel Xeon Scalable (select Silver/Gold/Platinum options)</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>128GB–1TB</td>
<td></td>
</tr>
<tr>
<td>Storage controller</td>
<td>Internal HBA330</td>
<td></td>
</tr>
<tr>
<td>Storage OS boot</td>
<td>BOSS with dual M.2 device 240GB and 480GB (RAID 1)</td>
<td></td>
</tr>
<tr>
<td>Storage cache</td>
<td>2x SAS/SATA MU SSDs</td>
<td></td>
</tr>
<tr>
<td>Storage capacity</td>
<td>4/6/8x 2TB NL SAS/SATA</td>
<td>4–10x 2.5&quot; SAS/SATA SSDs</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x 4TB SAS 10K HDD</td>
<td></td>
</tr>
<tr>
<td>Network cards</td>
<td>AIC + add in card</td>
<td>AIC: Dell EMC QLogic FastLinQ QL41262 dual port 25GbE LOM: Broadcom dual port 1Gb LOM and Broadcom dual port 10GbE SFP+ Network LOM mezzanine card</td>
</tr>
<tr>
<td></td>
<td>LOM + LAN on motherboard</td>
<td></td>
</tr>
<tr>
<td>System software</td>
<td>Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller</td>
<td></td>
</tr>
<tr>
<td>Software (optional)</td>
<td>Windows Server 2016 Datacenter Edition with Microsoft Storage Spaces Direct</td>
<td></td>
</tr>
<tr>
<td>Services</td>
<td>• Deployment services optional. Choose either ProDeploy or ProDeploy Plus with add-on for Microsoft Storage Spaces Direct.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Support services required. ProSupport Plus recommended (default), ProSupport available.</td>
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</tr>
<tr>
<td></td>
<td>• ProSupport for Software for Storage Spaces Direct Ready Nodes (required) includes on-site diagnosis services for ROBO locations with no IT staff.</td>
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</tr>
</tbody>
</table>

### Dell EMC Networking

Numerous industry studies have shown that networking can be the primary source of both deployment issues and poor performance of hyper-converged infrastructure (HCI). In many cases, clusters connect to an existing IP network on-site. The inclusion of switches in an architecture optimized for Windows Server 2016 can massively simplify this process and avoid many of the pitfalls associated with the deployment of HCI that originate in network connectivity.

Dell EMC includes networking diagrams and guidance in the Dell EMC Ready Solutions for Microsoft Windows Server Software-Defined deployment guide to help IT organizations in their journey to an SDDC. There are switches for out of band (OOB) management and for TOR. Microsoft Storage Spaces Direct uses SMB3, including SMB Direct and SMB Multichannel, over Ethernet to communicate between servers. Microsoft recommends 10+ GbE with remote-direct memory access (RDMA), either iWARP or RoCE. To accommodate new technologies such as NVMe drives, customers recommend 25GbE for the TOR.

Visit the Dell EMC Fabric Design Center (FDC), a cloud-based application that abstracts and automates the planning, design and deployment of network fabrics that connect Dell EMC hyper-converged infrastructure solutions.
Solution overview

**Dell EMC Networking options in Dell EMC Ready Solutions for Microsoft WSSD**

<table>
<thead>
<tr>
<th>Network options</th>
<th>1GbE (IDRAC/OOB)</th>
<th>10GbE (TOR)</th>
<th>25GbE (TOR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOR = top of rack</td>
<td>S3048-ON</td>
<td>S4048-ON</td>
<td>S5048F-ON</td>
</tr>
<tr>
<td>OOB = out of band management</td>
<td>S4148F-ON/S4128F-ON</td>
<td>S4112-ON</td>
<td>S5148F-ON</td>
</tr>
</tbody>
</table>

| Networking chassis | 1U redundant hot-swappable PSU and fans with front-to-back or back-to-front airflow |

**Enabling technologies**

- **Dell EMC PowerEdge R740xd Server** provides scalable storage performance and data set processing in a 2U, 2-socket platform with the scalability and performance to adapt to a variety of applications.
- **Dell EMC PowerEdge R640 Server** delivers scalable computing and storage in a 1U, 2-socket platform with an ideal mix of performance, cost and density for most data centers.
- **Dell EMC PowerEdge R440 Server** is designed for dense, scale-out computing, delivering performance and density in a compact 1U, 2-socket rack server for high performance computing (HPC), web tech and scale-out infrastructure.
- **Dell EMC Networking S-series 25/40/50/100GbE switches** are built with flexible architectural agility to help IT smoothly migrate to a software-designed data center.
- **Dell EMC Networking S-series 10GbE switches** are designed for flexibility and high performance for today’s demanding modern workloads and applications.
- **Dell EMC Networking S-series 1GbE switches** provide low latency and superb performance along with reliable server aggregation and cost-effective deployment.
- **Dell EMC QLogic FastLinQ QL41262 dual port 25GbE adapters** enable network bandwidth to be cost-effectively scaled in support of next-generation servers and storage residing in cloud and web-scale data center environments.
- **Mellanox ConnectX-4 LX dual port 25GbE network controllers** provide true hardware-based I/O isolation with scalability and efficiency, providing cost-effective and flexible networking for Web 2.0, Cloud, data analytics, database and storage platforms.

**Validated by Microsoft**

Dell EMC has earned Microsoft WSSD certification by meeting Microsoft standards for:

- Quality
- Accelerated time to value
- Out-of-the-box optimization
- Expedited problem resolution

Microsoft Windows Server 2016 with WSSD

**Microsoft Windows Server 2016** is built for organizations that need it all — security, efficiency and innovation. Windows Server 2016 is a cloud-ready OS that supports current workloads while introducing new technologies that make it easy to transition to cloud when the time is right.

WSSD is a set of technologies, included with Windows Server 2016, that give customers the efficiency and simplicity of SDDC technology without having to design and implement it themselves. The following features of Microsoft WSSD complement the advantages of Dell EMC infrastructure:

- **Servers**: WSSD technologies run on validated Dell EMC PowerEdge servers.
- **Storage**: Microsoft Storage Spaces Direct increases performance by easily exceeding 150,000 mixed 4k random IOPS per server with consistent, low latency.\(^7\)
- **Networking**: Take advantage of performance-enhancing networking technologies in Windows Server along with software-defined networking features that automate workload deployment with virtualized switching, routing, load balancing and firewalls — no configuration changes to the physical network needed.
- **Management**: Simplify IT with the ability to deploy and manage software-defined features across infrastructure using PowerShell and Windows Admin Center.
- **Security**: Protect against breaches with built-in security features, including added protection for virtual machines (VMs) even if the host is compromised.

Services and financing available from Dell EMC and partners

Dell EMC Services
With Dell EMC Services, certified deployment engineers can help ensure accuracy and speed, reduce risk and downtime and free IT staff to work on higher-value priorities. And our one-stop solution-level support covers the hardware, operating system, hypervisor and software, whether your customer purchased their license from Dell EMC or Microsoft.

Dell EMC Services for Microsoft environments
Dell EMC offers a broad range of services for the Microsoft ecosystem to help you achieve your business objectives for modernizing your workforce (hybrid Office 365®, SharePoint®, Skype® for Business, Exchange®), apps (Dynamics 365®), infrastructure (Windows Server, Active Directory®) and data platforms (SQL Server®) with greater speed and less risk. We will help your organization plan and execute Microsoft platform upgrades, modernization and migration to the cloud. Whether you are looking to transition services to the cloud or deliver them via a hybrid model, Dell EMC will help you navigate the best path to achieve your business objectives with services tailored to your unique business needs.

Dell EMC Microsoft Storage Spaces Direct Ready Nodes support
The Dell EMC Microsoft Storage Spaces Direct Ready Nodes identification helps route callers to the right queue for solution-level support. When customers order support, they receive support for the hardware and software, regardless of whether the software was purchased through Dell EMC. To resolve an issue, Dell EMC will escalate to Microsoft as needed, even without a Microsoft premier support agreement in place.

Services customized for your needs
Leverage on-site integration or application implementation with Dell EMC Consulting. For IT professionals and the entire organization, our education experts and learning experiences enable you to maximize return on your investment in technology and learning. Trust Dell EMC to deploy the racked configuration in their data center, including network cabling, operating system, firmware and hypervisor with Dell EMC Deployment Services. Enjoy unlimited access to 24x7 chat, email and phone support services with how-to assistance and disaster recovery from Dell EMC Support Services.

Dell Financial Services
A wealth of leasing and financing options from Dell Financial Services can help customers find opportunities when the organization faces decisions regarding capital expenditures, operating expenditures and cash flow.
- Leasing and financing are available throughout the U.S., Canada and Europe.
- Dell Financial Services can finance technology solutions.
- Electronic quoting and online contracts offer an efficient purchase experience.
“Integrity matters. It matters to our customers, partners, colleagues and communities. And it matters greatly to me. We are a company of passionate overachievers, and we always have been. It’s one reason we’ve survived and thrived in an industry defined by change.

But another reason is because we are equally passionate about how we do our work. We act with integrity and in accordance with the letter and spirit of the law. We strive to make sound and ethical choices that serve our customers, improve our communities, and inspire our team members...

At Dell Technologies, integrity is not optional. It’s who we are.”

— Michael S. Dell, Chairman and CEO

Why Dell EMC?

Our culture is defined by our values and made real every day by how we work and lead. Our top culture attributes that drive the company’s success include:

• **Customers:** We believe our relationships with customers is the ultimate differentiator and the foundation for our success.
• **Winning together:** We believe in and value our people. We perform better, are smarter and have more fun working as a team than as individuals.
• **Innovation:** We believe our ability to innovate and cultivate breakthrough thinking is an engine for growth, success and progress.
• **Results:** We believe in being accountable to an exceptional standard of excellence and performance.
• **Integrity:** We believe integrity must always govern our fierce desire to win.

Dell EMC holds leadership positions in some of the largest-growth categories in the IT infrastructure business, and that means Dell EMC will be there for you now and in the future.

• #1 in servers\(^9\)
• #1 in converged and hyper-converged infrastructure (HCI)\(^10\)
• #1 in traditional and all-flash storage\(^11\)
• #1 cloud IT infrastructure\(^12\)
• #1 in data protection\(^13\)
• #1 in software-defined storage\(^14\)

\(^12\) IDC WW Quarterly Cloud IT Infrastructure Tracker, June 2018, Vendor Revenue — Q1 2018.
\(^14\) IDC WW Semiannual Software Tracker, April 2018.
Dell EMC Customer Solution Centers

Experience Dell EMC technologies in our global network of 21 dedicated facilities. The Dell EMC Customer Solution Centers are trusted environments where world-class IT experts collaborate with you to share best practices; facilitate in-depth discussions of effective business strategies using briefings, workshops, or fully supported proofs-of-concept; and help you become more successful and competitive. Dell EMC Customer Solution Centers reduce the risk associated with new technology investments and can help improve speed of implementation.

Get a handle on data growth right away

Don’t wait to find out more about how you can get the confidence, convenience and customer support you require to adopt Dell EMC Ready Solutions for Microsoft Windows Server Software-Defined. Contact your Dell EMC sales representative or visit the Dell EMC Ready Solutions for Microsoft Windows Server Software-Defined page to learn more.