DELL EMC READY SOLUTIONS FOR MICROSOFT SQL

Designed for superior performance, significant cost savings and future-ready scalability for your Microsoft SQL Server 2017 environment

Ready Solutions for Microsoft SQL

ESSENTIALS:

- Pre-architected and validated configurations
- Flexible design choices
- Data reduction and compression
- Backup and recovery
- Data protection

BENEFITS:

- Superior performance
- Significant cost savings
- Future-ready scalability
- Incremental growth flexibility
- Mixed workload consolidation

Embrace Microsoft SQL Server 2017

Microsoft® SQL Server® 2017 delivers breakthrough mission-critical capabilities with in-memory performance and operational analytics built in — while comprehensive security features help protect your data at-rest and data in-motion.

When you embrace Microsoft SQL Server 2017, you'll be able to gain deeper insights from all your data. With capabilities that go beyond business intelligence, SQL Server 2017 performs advanced analytics within your database and presents rich visualizations for business insights. In addition, SQL Server 2017 delivers a database platform for hybrid cloud, enabling you to easily build, deploy and manage solutions that span on-premises and in the cloud. SQL Server 2017 also represents a major step towards making SQL Server a platform that gives you choices of development languages, data types, and operating systems by bringing the power of SQL Server to Linux, Linux-based Docker containers, and Windows.

Planning is essential

But building a new Microsoft SQL Server system can be tricky. SQL Server performance depends on the right architectural design and sizing. The infrastructure you buy — and how you plan the implementation — can have a huge impact on your results, costs and scalability. There are many different options available when it comes to selecting hardware and storage subsystems, and it could take multiple tries to find the right combination for maximum performance.

Having properly sized and configured hardware can both increase application performance and reduce capital expenses dramatically. In a database environment, it's also important to consolidate multiple components to reduce data center footprint and costs.

Also, scaling SQL Server can be a tedious and time-consuming undertaking that touches multiple systems, databases, memory, storage, CPU and network adapters. Making the right hardware decisions from the start is important for database scalability.

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42% increase in transactions per second[2]

43% increase in batch requests per second[2]

Cut wait times by 88%[3]

Support nearly 7x as many customers[3]

Answer database queries in 92% less time[4]

Dell EMC has the Ready Solutions for Microsoft SQL environments

Dell EMC understands these challenges and has both the SQL expertise and the extensive portfolio to help quickly find the right platform, implement the right process, and get the right performance while minimizing risk. In addition, data in Microsoft SQL Server 2017 can be on-premises, hybrid and in the cloud, with a consistent experience across all three platforms. Dell EMC can help you decide which model is best for your applications and workloads.

Dell EMC Ready Solutions for Microsoft SQL, are designed for superior performance, significant cost savings and future-ready scalability. Our solutions offer customers choices of server form factors, server virtualization versus bare metal, hypervisors including Microsoft Hyper-V and VMware ESXi, and storage flexibility including hyper-converged, storage array, and software-defined.

Superior performance

Microsoft SQL Server delivers breakthrough database performance, including up to 30X faster transactions over traditional database engines and in-memory column store for up to 100X faster queries with row-oriented storage.[1]

Dell EMC Ready Solutions for Microsoft SQL are purpose-designed and validated to optimize performance with SQL Server 2017. It delivers strong linear scalability and performance. It consistently delivers sub-millisecond storage latencies enabling enterprise applications to respond faster and accelerates business processing.[5]

Significant cost savings

Dell EMC Ready Solutions for Microsoft SQL helps you save the hours required to develop a new database and can also help you avoid the costly pitfalls of a new implementation, while ensuring that your company's unique needs are met. Our solution also helps you reduce costs with hardware resource consolidation and SQL Server licensing savings by consolidating and simplifying SQL systems onto modern infrastructure that supports mixed DBMS workloads, like OLTP and decision support system, making them future ready for data analytics and next generation real-time applications.

Future-ready scalability

Dell EMC Ready Solutions for Microsoft SQL have been designed, tested and optimized for SQL Server, so you can start or scale quickly and easily to keep up with growing database demands. The Dell EMC Ready Solutions for Microsoft SQL's flexible architecture enables you to add only in the areas where you need to expand over time as you grow.

The Microsoft Storage Spaces Direct design options allows you to use industry-standard Dell EMC PowerEdge servers with local-attached drives to create highly available, highly scalable storage at a fraction of the cost of traditional arrays.

The Ready Solutions for Microsoft SQL with Unity and PowerEdge R740 rackmount servers delivers strong scalability and performance in terms of IOPS, Batch Requests per Second and Transactions per Second .[5]

Modernize your Microsoft SQL infrastructure with confidence

Dell EMC Ready Solutions for Microsoft SQL are designed based on Microsoft and Dell EMC best practices. The solution provides exceptional performance and scalability, delivers faster time to value, and increases return on investment. Over the past decade, successful companies have

increasingly turned to Dell EMC to support their mission-critical workloads, including database and business intelligence applications. Deploy Dell EMC Ready Solutions for Microsoft SQL with confidence, knowing it has been tested and optimized to help take the guesswork — and the risk — out of deploying a SQL Server infrastructure.

Services

Dell EMC is a Microsoft Gold certified business intelligence and analytics partner. Dell EMC provides strategic and tactical capabilities, award-winning methodologies, and certified expertise needed to make your Microsoft SQL Server projects a success. Our holistic approach to providing services for your Microsoft environment can help you minimize risk and business disruption—making us the partner of choice for your Microsoft SQL Server endeavors. Dell EMC can help you:

- Improve data quality with a modernized data landscape

- Deploy, migration and modernization services in the cloud or on-premises

- Reduce costs for platform licensing

- Improve protection, performance, and recoverability of cloud-based and on-premises Microsoft SQL Server environments

Support

Dell EMC's one stop solution-level support covers the hardware, operating system, hypervisor and software, whether you purchased your license from Dell EMC or Microsoft.

Enjoy unlimited access to 24x7 chat, email and phone support services with how-to assistance and disaster recovery from Dell EMC ProSupport.
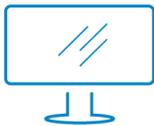
Dell EMC Financial Services

Dell Financial Services has a wealth of leasing and financing options.

- Leasing and financing solutions are available throughout the U.S., Canada and Europe.

- Dell EMC Financial Services can finance the total technology solution.

- Efficient electronic quoting and online contracts offer an efficient purchase experience.

Learn more about Dell EMC Financial Services.

1. Microsoft, "Run operational and analytical workloads at a sprint", 2017.
2. Based on a Dell EMC Engineering study, "Accelerating Microsoft SQL Server Performance with NVDIMM-N on Dell EMC PowerEdge R740", August 2017.
3. Principled Technologies report, "Serve more online customers with new Dell EMC servers and Microsoft SQL Server 2017 software", October 2018
4. Principled Technologies report, "Analyze data faster by upgrading to a Dell EMC PowerEdge R740xd running Microsoft SQL Server 2017 Standard on Red Hat Enterprise Linux 7.5", October 2018
5. Based on a Dell EMC Engineering study using SQL Server 2017 with Windows Server 2016, VMware vSphere 6.7 on PowerEdge R740 servers, and Unity 650 All Flash storage. "Dell EMC Ready Solutions for Microsoft SQL: Dell EMC Unity All Flash Storage Design Guide", December 2018

Learn More about Dell EMC Ready Solutions for Microsoft SQL solutions

Contact a Dell EMC Expert

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