

EMC Storage Design for Microsoft SQL Server 2008

Best-practice design and layout of Microsoft SQL Server databases on an EMC SAN

Across the database lifecycle, Microsoft SQL Server customers are looking to ensure an accelerated ROI and optimized infrastructure to support business and IT requirements. With a focus on best practices for performance, scalability, and availability, EMC has developed a storage design and layout service to help customers optimally deploy Microsoft's SQL Server databases on EMC® storage infrastructure.

Business Challenge

Customers are facing a number of challenges in their ongoing quest to increase the return on their SQL Server investments.

- Accelerate and lower the risk of new database implementations or migrations
- Ensure the underlying storage infrastructure is fully optimized to support SLAs including performance, scalability, and availability
- Consolidate their existing databases and infrastructure to lower costs
- Reduce complexity and simplify their IT infrastructure
- Increase the productivity of their IT staff

To address these challenges, customers often implement a tiered storage strategy and migrate their databases to new storage platforms. Consolidating and simplifying IT infrastructures while maintaining SLAs for performance, scalability, and availability is a balancing act. To succeed in these challenges, SQL Server customers are looking to deploy their databases and storage infrastructure based on proven best practices and flexible technology.

Service Description

The EMC Storage Design for Microsoft SQL Server 2008 is a best-practices engagement that provides a storage design and layout for your Microsoft SQL Server 2008 environment on EMC CLARiiON® or EMC Symmetrix® storage with potential inclusion of EMC Centera® for file stream/remote blob storage. The recommended design will incorporate Microsoft SQL Server 2008 storage and database design best practices and techniques in order to optimize database performance and to comply with business continuity requirements for archiving and replication of databases with minimal interruption to ongoing production activity. This service consists of three phases:

- **Discovery:** EMC will perform a detailed review of the current infrastructure including the server, operating systems, and database; review database I/O usage; and review your required SLAs.
- **Analysis:** During this phase, EMC will plan and perform detailed analysis for Microsoft SQL Server 2008 deployment and new enhancement integration as it relates to storage infrastructure, calculate all storage capacity requirements including growth, and determine best practices for data layout to meet your capacity and performance requirements.

- **Design and Final Report:** Based on Discovery and Analysis results, EMC will apply best practices and make recommendations for an optimal deployment of Microsoft SQL Server 2008 on an EMC SAN infrastructure. The layout will include the number of disks/spindles for databases, detailed LUN, replication disks/spindles, and best practices for configuration and ongoing maintenance and provisioning.

Service Value

The EMC Storage Design for Microsoft SQL Server 2008 provides a storage design and layout to help you simplify the implementation or migration of a Microsoft SQL Server 2008 database on EMC storage. Utilizing a best-practices approach enables customers to leverage EMC's expertise.

This service:

- Improves the ROI of your IT investment by leveraging EMC best practices and recommendations for database layout and ongoing infrastructure management
- Simplifies Microsoft SQL Server 2008 deployment and layout on the industry's broadest, most advanced line of tiered storage products—Symmetrix and/or CLARiiON
- Lowers the risk of implementation or migration of a Microsoft SQL Server database on an EMC storage platform
- Provides an optimized database and storage design and layout that supports agreed-upon SLAs to address performance, scalability, and availability
- Eliminates the complexity in implementing high-availability enterprise infrastructures

EMC Consulting

As part of the world's leading developer and provider of information infrastructure technology and solutions, EMC Consulting transforms information into business results. Our consultants bring a unique mix of industry, business, and technology expertise to solve today's toughest challenges. We use field-tested tools, proven methodologies, best practices, and industry standards to minimize risk and optimize time-to-value in our engagements. We provide a full range of consulting, design, implementation, and support services.



EMC Corporation
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America 1-866-464-7381
www.EMC.com

Take the next step

To learn more about how EMC can help you envision, plan, and implement Microsoft applications that integrate with EMC hardware and software, visit us online at <http://www.EMC.com/solutions/microsoft>.