

# EMC UPGRADE AND MIGRATION SERVICES FOR MICROSOFT SQL SERVER

Leverage your data infrastructure more efficiently and effectively with Microsoft SQL Server

## ESSENTIALS

- Maximize your investment in Microsoft SQL Server and ensure your environment can support the requirements for improved protection, performance, availability, and recoverability
- Save valuable time and benefit from EMC Consulting's vast deployment experience
- Review and profile your production and test environments
- Lower upgrade/migration risk by having a report that details recommendations for data layout, backup and recovery, availability requirements, and general infrastructure optimization

With limited resources and increasing demands, enterprises need to accelerate the deployment and increase the ROI from their enterprise information management investments. There are typically two main objectives that drive an upgrade or migration to Microsoft® SQL Server®. Organizations want to take advantage of increased performance, scalability, and new features, and they want to reduce costs by consolidating and optimizing their data infrastructure.

However, upgrades and migrations of any type can introduce risk into your environment. Database infrastructure upgrades can be particularly challenging due to the line of business (LOB) applications that depend on the data infrastructure. Avoiding disruption and unforeseen delays requires an understanding of your organization's IT infrastructure and business objectives, and the development of a clear strategy and migration plan. Proven expertise combined with best practices and methodologies are critical factors in a successful transition.

## EMC CONSULTING'S PROVEN APPROACH

EMC® Upgrade and Migration Services for Microsoft SQL Server will help you plan, manage, and execute your transition to the latest Microsoft SQL Server platforms. These services include:

- Upgrade/Migration Assessment and Planning
- Upgrade/Migration Execution

## UPGRADE/MIGRATION ASSESSMENT AND PLANNING

An Upgrade/Migration Assessment begins with a series of workshops to understand the goals for your upgrade or migration. The workshops include participation by executive stakeholders, IT managers, data administrators, and line of business owners. These workshops uncover the motivation behind the upgrade and the business drivers and objectives you want to achieve. Objectives may include, for example, cost reduction, new functionality, data consolidation, infrastructure virtualization, increased performance, availability and resiliency, application upgrades, and application/data retirement. The workshops enable us to develop a high-level strategy and shared vision for the upgrade and a common understanding of the complexity and scale of the project.

After identifying the goals for the upgrade or migration, the next step is to carry out an assessment of the existing enterprise information environment to plan for the upgrade or migration. The enterprise information environment includes the physical infrastructure (servers, storage, etc.), the database services (OLTP, OLAP, ETL, DW, etc.), and the applications that depend on the data infrastructure. The current state assessment involves

capturing detailed information about the data infrastructure (servers, databases, etc.) and the applications that have dependencies on the Microsoft SQL Server infrastructure.

The Infrastructure and Database Assessment includes gathering and analyzing configuration and utilization information for existing database servers and their corresponding database instances and then formulating an impact assessment—that identifies issues, risks, and mitigation strategies—as it relates to upgrading the infrastructure and specific database instances. Our consultants use several automated tools to accelerate the assessment process.

The Application Assessment includes working with line of business sponsors and IT support team members to record an inventory of the applications that have dependencies on the data infrastructure. The inventory includes several attributes to help classify and rate the applications for migration/upgrade criticality, complexity, business impact, and licensing and support impact. The inventory also includes application to database mapping and potential application configuration issues.

Once we have an accurate understanding of the existing environments, we focus on defining future state requirements, designing the future state reference architecture, and developing the upgrade or migration roadmap. Detailed requirements such as performance, scalability, availability, disaster recovery, operations and support, testing, and quality gates for migration are captured through interviews and planning sessions with IT and business sponsors.

Using the information from the current state assessment and future state requirements, EMC consultants leverage industry experience and best practices to design the future state information architecture to support the IT and business needs of the future. Last, we work with business sponsors and IT to develop the migration plan that outlines all of the major activities required to prepare the applications and databases for migration, to test and validate the migration, and to perform the final migration.

## UPGRADE/MIGRATION EXECUTION

Upgrading to a new database technology can include a significant amount of effort to prepare for and execute the migration. Significant complexities can be involved when moving large amounts of information from legacy environments. In many cases, business applications may need to be modified, reengineered, replaced, or retired. Developing and overseeing the change management processes, including testing and quality assurance, can require significant overhead.

Our consultants have a broad range of experience and skills that enable us to support the most complex migration and upgrade scenarios. We have experience with numerous industry-standard data platforms, storage platforms, virtualization platforms, and application development platforms. Our approach often relies on highly trained consultants in our India Center of Excellence, which enables a hybrid onshore/offshore model to maximize efficiency. We also address other important aspects of the upgrade or migration including data governance, data quality, migration testing, and operations and support best practices.

## EMC CONSULTING HELPS YOU MAXIMIZE THE BENEFITS OF MICROSOFT SQL SERVER

The EMC Upgrade and Migration Services enable you to optimize the move to Microsoft SQL Server, saving valuable time by leveraging lessons learned and industry best practices from EMC Consulting's vast deployment experience. We help you accelerate the time to benefit from the robust features of Microsoft SQL Server. We help you maximize your investment in SQL Server and ensure your environment can support the requirements for improved protection, performance, availability, and recoverability. Whether you are migrating from

database technologies such as Oracle, DB2, Sybase, or previous versions of Microsoft SQL Server, EMC Consulting's proven expertise, best practices, and methodologies lower risk and increase ROI.

EMC is a Microsoft partner with 19 competencies, a Global System Integrator, and a Global Alliance Partner. Our Microsoft Certified consultants include multiple SQL Server MVPs. Our alliance with Microsoft encompasses multiple facets—from joint technology development to access to the latest technology. We participate in the Technology Adoption Program (TAP) for most Microsoft products including Microsoft SQL Server, and we were one of the earliest partners to develop solutions for Microsoft SQL Server Parallel Data Warehouse.

## EMC CONSULTING

As part of EMC Corporation, the world's leading developer and provider of information infrastructure technology and solutions, EMC Consulting provides strategic guidance and technology expertise to help organizations exploit information to its maximum potential. With worldwide expertise across organizations' businesses, applications, and infrastructures, as well as deep industry understanding, EMC Consulting guides and delivers revolutionary thinking to help clients realize their ambitions in an information economy. EMC Consulting drives execution for its clients, including more than half of the Global Fortune 500 companies, to transform information into actionable strategies and tangible business results.

### CONTACT US

For more information, visit [www.EMC.com/consulting](http://www.EMC.com/consulting) or contact your local EMC Consulting representative.

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