

EMC DB2 UDB Database Layout

Accelerated best-practice implementations of IBM DB2 UDB databases on an EMC SAN



EMC has developed an assessment and implementation solution to optimally deploy DB2 UDB databases on an EMC® storage infrastructure. The solution focuses on best practices for scalability, availability, and performance of the DB2 UDB environment.

Business Challenges

DB2 UDB users—as in businesses everywhere—want to accelerate IT infrastructure deployments and increase their return on investment, and in particular, to upgrade their databases quickly with low risk while ensuring that the underlying storage infrastructure is fully optimized to support IT and business objectives.

They also want to simplify their IT infrastructures while maintaining service level agreements (SLAs) for performance and availability. Simplifying their IT Infrastructures often includes undertaking consolidation initiatives. As part of these efforts, customers often implement a tiered storage strategy and migrate their databases to new storage platforms.

DB2 UDB customers are looking to deploy their IT infrastructure based on best practices to ensure an accelerated ROI and optimized infrastructure to support SLAs.

Solution Description

The EMC DB2 UDB Database Layout Accelerator is a best-practices engagement that provides recommendations and implementation of an optimized DB2 UDB database on an EMC storage platform, specifically EMC Symmetrix® DMX and EMC CLARiiON®. This solution supports either the creation of a new database instance or the transition of an existing database onto an EMC SAN platform. The best practices utilized in this engagement have been developed by EMC and IBM DB2 labs in Toronto.

The EMC DB2 UDB Database Layout Accelerator consists of three phases:

Assessment and planning

EMC will perform a detailed review of the current infrastructure, including the server, operating systems, and database; review database usage; and define the requirements for SLAs. The focus of the review is to plan and perform detailed analysis for the DB2 UDB deployment.

Database layout and design recommendations

Based on this analysis and requirements, EMC will apply best practices and make recommendations for an optimal deployment of DB2 UDB on an EMC SAN infrastructure. The layout will be based on observed performance characteristics; service level agreement (SLA) requirements, as well as other requirements such as creation of reporting instances, or the automation of ETL processes utilizing EMC and DB2 UDB features and functionality.

EMC will apply best practices defined to provide performance, scalability, and availability objectives.

Implementation of recommendations

Based on the agreed-upon recommendations and design, experts from EMC will assist the customer in deploying a DB2 UDB database on an EMC storage platform, assuring the highest levels of performance and availability. EMC will test, validate, and review the solution with your IT staff to ensure it meets all objectives.

Solution Value

The EMC DB2 UDB Database Layout simplifies the implementation or migration of a DB2 UDB database to EMC storage. Utilizing a best-practices approach enables customers to leverage expertise that has been developed between EMC and IBM Toronto labs. This solution:

- Accelerates and lowers the risk of implementation or migration of a DB2 UDB database to an EMC storage platform.
- Leverages the combined best-practice expertise of EMC and IBM Toronto labs.
- Eliminates the complexity in implementing high-availability enterprise infrastructures
- Provides an optimized database and storage infrastructure that supports agreed-upon SLAs addressing availability, scalability, and performance
- Improves the ROI of your IT investment by leveraging EMC and IBM best practices and recommendations for database layout and ongoing infrastructure management.
- Reduces training costs and provides knowledge transfer between the customer and EMC.

Getting Started

To learn more about implementing a cost-effective EMC storage architecture for your existing or future DB2 UDB database environment, contact your local EMC account representative, or visit the EMC Proven™ Solutions website at www.emc.com/solutions.



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