

EMC DB2/UDB Database Performance Accelerator Solution

Best-practice recommendations to alleviate database environment bottlenecks



The EMC[®] DB2/UDB Database Performance Accelerator Solution addresses performance bottlenecks, capacity, and configuration issues to optimize DB2 infrastructures.

Business Challenges

Optimizing performance in a DB2/UDB environment requires complex analysis and correlation of performance measurements. Achieving optimal performance often requires coordination among several teams in an IT organization. Companies typically encounter these challenges:

- Reduce application and database outages that hurt business processes.
- Improve their ability to support SLA requirements.
- Configure and proactively manage the performance of the database environment for necessary upgrades, migrations, and maintenance.
- Ensure the DB2 infrastructure is fully optimized to reduce risk and support business use.
- Pinpoint performance problems within the current DB2 environment.
- Information lifecycle management concerns related to designing an infrastructure to meet performance challenges at any point in the data's lifecycle.

To address these challenges, customers require an optimized database environment that is architected to meet current and future performance requirements, driven by performance recommendations based upon proven DB2 best practices.

Solution Description

The EMC DB2/UDB Database Performance Accelerator Solution is a cost-effective, end-to-end assessment of an entire technology stack (database, server, and storage) to identify performance bottlenecks and capacity/configuration issues. The solution is an alternative to narrow-view (e.g., server-only) performance assessments that often fall short of pinpointing the true source of a performance issue. This EMC Proven™ solution focuses on I/O performance and provides recommendations to achieve best-practice infrastructures. Potential performance recommendations may include but are not limited to: implementing new hardware, tuning database settings to improve connectivity response times, and re-configuring storage layout to reduce hot spindles or improve I/O channel balance.

The EMC DB2/UDB Database Accelerator Solution consists of three phases:

- **Assessment and Planning:** During the initial phase, EMC works with your IT staff to collect and document baseline information on the current DB2 environment. Information is collected on host volume groups, DB2/UDB environmental and performance data, I/O performance, and other analytics. EMC will also work with you to analyze the current DB2 configuration and performance data.
- **Performance Recommendations:** Based on the information and analysis from the initial phase, EMC provides a comprehensive, customized report on the state of your DB2 environment and makes recommendations tailored to that environment that offer best practices suited to optimize it. Finally, a configuration guide will outline storage layout recommendations specific to your DB2 infrastructure.

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- Implementation and Testing (optional): Based on the results from the first two phases, it is likely your company will choose to move forward with implementation and testing of one or more of the best practice recommendations. EMC welcomes the opportunity to work with your IT staff to implement any of the recommendations.

Solution Value

The EMC DB2/UDB Database Performance Accelerator Solution identifies bottlenecks specific to your environment, and it provides recommendations to optimally configure your entire DB2 technology stack. The solution:

- Enables customers to identify performance issues and proactively manage them by incorporating best practices recommended by EMC and IBM Toronto Labs.
- Provides an optimized database and storage infrastructure that reduces risk and supports agreed-upon SLAs addressing availability, scalability, and performance.
- Improves ROI and your IT investment by leveraging EMC best practices and recommendations for database layout, backup, and ongoing infrastructure management.
- Utilizes EMC experts to assess your DB2 environment and provides knowledge transfer to your IT staff. EMC experts can assist you with implementing any of the recommendations.

Getting Started

To learn more about implementing EMC's DB2/UDB Database Performance Accelerator Solution for your existing or future DB2/UDB environment, contact your local EMC account representative, or visit the EMC Proven Solutions website at www.emc.com/solutions.



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Solution Brief
H1780