

IBM performance optimization tools for Db2 for z/OS

Proactive performance management of Db2 for z/OS systems and applications



Highlights

Enterprise-wide performance monitoring

Expert advice with built-in advisors

Autonomic alert functions

Proactive problem prevention

Growth in workloads due to digital transformation is driving the need to better optimize application performance. This requires an understanding of a wide range of factors including performance tuning, monitoring, and problem identification. System resources, database design, and query performance are among the many issues organizations need to consider, and each of these factors influences the others.

IBM offers several tools to help make performance analysis and optimization easier. IBM performance optimization tools monitor, track, and identify root cause performance issues in development as well as when an application is in production. The tools replace ad hoc methods with best practices technology that addresses the entire performance management lifecycle (monitoring and tuning), helps improve IBM® Db2® for z/OS® availability and reduces overall system costs. The IBM performance tools provide analytics to address specific performance challenges, administration, and workload optimization.

Take a proactive approach leveraging technology that implements best practices for enterprise performance management

End-to-end performance monitoring and management

Enterprise-wide performance monitoring

Organizations need a complete view across the enterprise, beyond just the database, to address application performance challenges. IBM OMEGAMON® for Db2 Performance Expert can analyze and monitor Db2 for z/OS environments, support system and application performance monitoring, reporting, trend analysis, charge back usage, and buffer pool analysis. It can identify where transactions are consuming resources for problem determination and identify opportunities to improve application performance. OMEGAMON for Db2 Performance Expert monitors alerts and exceptions to help identify performance slowdowns with minimal monitoring overhead.

Expert advice with built-in advisors

Application performance and SQL query workload degradation can put revenue at risk, reduce customer satisfaction, and increase infrastructure costs. IBM Db2 Query Workload Tuner for z/OS can optimize the performance of SQL statements to maintain high performance levels over time. Through built-in recommendations, that help reduce the need for specialized skills, it optimizes application performance and proactively tunes SQL workloads. Advisors help speed application deployment with improved query design, statistics quality, and index recommendations. This helps lower cost and improve availability while aligning system resources with business priorities and improving resource utilization to defer upgrades.

Autonomic alert functions

SQL performance can degrade over time, and it is important to understand resource utilization and anticipate execution costs. IBM Db2 SQL Performance Analyzer for z/OS helps analyze resource usage and estimate SQL execution costs. It performs near real-time knowledge-based analysis of exception events.

Proactive problem prevention

IBM Db2 Query Monitor for z/OS monitors query execution on Db2 for z/OS systems for performance tuning and capacity planning. It provides current and historical views of query activity for better insight into tuning needs. It monitors and analyzes historical trends to prevent problems and help plan for future capacity requirements.



Conclusion

Performance Optimization Tools for Db2 for z/OS

To maintain the health and performance of enterprise systems, organizations should take a proactive approach leveraging technology that implements best practices for enterprise performance management. The IBM performance optimization tools have been developed based on decades of IBM experience managing and tuning enterprise systems.

The individual IBM performance optimization tools can be purchased separately or to simplify acquisition IBM also offers the IBM Db2® Performance Solution Pack for z/OS®. This solution pack includes OMEGAMON XE for Db2 PE, Db2 Query Monitor, Db2 SQL Performance Analyzer, and Db2 Query Workload Tuner – delivering end-to-end performance monitoring and management of Db2 for z/OS applications and systems.

Why IBM?

IBM is trusted to manage companies' most mission-critical data and applications. Our long history of innovation in enterprise data solutions includes market-leading database solutions and enterprise-ready AI. We enable our clients to run solutions in any cloud or on-premises environment and believe that our clients' data solely belongs to them.

Learn more

To learn more about IBM Performance Optimization tools for Db2 for z/OS, contact your IBM representative or IBM Business Partner, or visit the [IBM Db2 Tools for z/OS Community](#).

© Copyright IBM Corporation 2024
IBM Corporation
New Orchard Road
Armonk, NY 10504

Produced in the
United States of America
February 2024

IBM, the IBM logo, IBM Z, Db2 and z/OS are trademarks or registered trademarks of International Business Machines Corporation, in the United States and/or other countries. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on [ibm.com/trademark](https://www.ibm.com/trademark).

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

