



Spotlight® on DB2 for LUW

Visual Root-Cause Diagnostics and Resolution for DB2 on Linux, Unix and Windows

It's nearly impossible to manually diagnose and resolve every issue affecting database performance. Without a clear view of I/O and user activity, you often learn of performance problems after bottlenecks form. Spotlight® on DB2 provides you with every detail you need to quickly identify and eliminate bottlenecks in your DB2 environment, whether it is running on Linux, Unix, or Windows (LUW).

Your Solution for Quickly Correcting Database Issues

Spotlight on DB2, features patent-pending technology that displays the processing architecture of DB2 and real-time activity of all database components in a single interface. It helps you pinpoint the source of problems as they occur and rapidly resolve them. Flow chart illustrations indicate the rate at which data is moving between database components. A map displays key statistics and metrics for your DB2 environment, including user activity, I/O activity and operational overhead.

Automatic Problem Detection to Prevent Impact on End Users

With Spotlight, you can drill down to details and locate in-depth information about the source of a problem. And because the run-time nature of each DB2 database is unique, Spotlight offers a calibration process that automatically sets a baseline of normal activity for each server and subsystem. This allows Spotlight to automatically set the speed of the internal flows and other activity indicators. When a threshold is met, Spotlight sends a warning of impending problems with a visual or audible alert. With these advanced warnings, you have the time to eliminate bottlenecks before they seriously impact end users.

From an overview screen, you can view the most active user sessions, SQL statements, locks, waits, and database activity to pinpoint and alleviate problem areas as they occur.

- Observe database activity in real time with a unique visual representation of process flows within DB2
- View all critical components of your DB2 database on one screen
- Receive problem reports automatically
- Save time having to write your own diagnostic SQL script
- Explore database activity:
 - Active thread detail
 - Inefficient SQL, locks and waits
 - Disk I/O
 - Database memory usage
 - Buffer cache utilization
- Explore operating system activity:
 - CPU
 - Disk
 - Memory
 - Processes
 - Network
- Monitor the operating system through Spotlight on Unix and Spotlight on Windows, which are bundled with Spotlight on DB2 for LUW
- Leverage support of new features in DB2 for LUW version 9, such as a HADR panel for high-availability disaster recovery management



Comprehensive real-time DB2 monitoring with Spotlight on DB2.

System Requirements:

Client Requirements

- Windows 2000 or XP
- 512 MB RAM
- 300 MB disk space
- DB2 UDB version 7.2 FP6 runtime Client, or higher

NOTE: Spotlight requires a DB2 LUW version 8.1 runtime Client when running against a DB2 LUW version 8.1 64-bit server

Database Support

- DB2 UDB version 8.1 up to 9.1 (64-bit) for Linux, Unix and Windows

Main Components

Real-Time Display of Database Activity

Unlike other diagnostic tools, Spotlight shows you activity occurring in real time between the fundamental components of the DB2 architecture. The main screen displays components such as memory, disk storage and SQL processes. Pulses traveling between these components represent the relative rate of data transfer and the level of activity within the database. These rates adjust to the performance characteristics of the server you specify.

Historical Record and Playback

The record/playback capability allows you to easily retain all the performance metrics for a period of time via historical snapshots and then review them in full detail.

Support for Clustered Environments

EEE Support

Similar to the data-sharing display, Spotlight provides a global visualization of EEE and ESE clustered environments including node summary and FCM detail reports.

Database Summary

This drill-down function provides summary reports on the health of the overall instance or subsystem.

Client Application Detail

This drill-down function provides details on all active threads related to conditions such as locking and I/O.

Top SQL

This data contains a collection of all SQL statements executed across all applications. It allows you to easily identify the most resource-intensive SQL statements across all applications.

Tablespace Detail

This drill-down function provides information about tablespaces running on DB2 for Linux, Unix and Windows, including:

- Configuration
- Use of extended storage
- The amount of time required to perform direct and buffered I/O on the Tablespace during the selected monitoring interval

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