

# Spotlight™ on IBM® DB2® LUW®

Visual root-cause diagnostics and resolution for DB2®

Quickly identify and eliminate bottlenecks in your environment with Spotlight™ on IBM® DB2® LUW. This powerful solution makes it fast and easy to diagnose and resolve every component affecting database performance by providing a clear view of I/O and user activity. With Spotlight on IBM DB2 LUW, you'll resolve performance problems before they impact end users.

## The visual root-cause diagnostic solution

Spotlight, a Windows-based diagnostics tool for DB2 LUW, features patent-pending technology that displays real-time activity of all database components in a single interface. By showing the actual processing architecture of DB2 LUW,

Spotlight helps you pinpoint the source of problems as they occur and rapidly resolve them. Graphical flows illustrate the rate at which data is moving between database components.

## Automatic problem detection for instant resolution

With Spotlight, you can drill down to details and locate in-depth information about the source of a problem before it impacts end users. And because the run-time nature of each DB2 LUW server varies, Spotlight offers a unique calibration process that automatically sets a baseline of normal activity for each server. This allows Spotlight to automatically set the speed of the internal flows and other activity indicators, plus send a visual or audible alert when a threshold is met.

Benefits:

- Observe actual database and operating system activity in real time through a unique visual representation of process flows
- Monitor all critical components on one screen
- Calibrate alert levels for each server
- Speed time to resolution with proactive identification and root-cause diagnosis of problems
- Review snapshots of past performance
- Integrate with Spotlight™ on Unix® and Spotlight™ on Windows® to monitor the physical server that runs DB2 LUW
- Monitor multiple DB2 LUW servers simultaneously
- Explore database activity, such as:
  - Most active sessions
  - Inefficient SQL, locks and waits
  - Disk I/O
  - Database memory usage
  - Data cache utilization
  - Procedure cache utilization



Easily view memory, disk storage and SQL processes.

## System requirements

### Memory

512MB of RAM required,  
1GB recommended

### Hard disk space

100MB of free hard-disk  
space

### Operating system

Windows Server® 2003  
(32-bit or 64-bit)

Windows Server 2008 (32-bit  
or 64-bit)

Windows Vista® (32-bit or  
64-bit)

Windows 7 (32-bit or 64-bit)

Windows 8 (32-bit or 64-bit)

Windows Server 2012

### Database server

IBM DB2 LUW 9.0 or later

### Application virtualization support

Citrix® XenApp® 6.5 on  
Windows Server 2008 R2

Note: Spotlight may work  
in additional virtualization  
environments.

In addition, you can pinpoint and alleviate problem areas as they occur by viewing the most active user sessions, SQL statements, locks, waits and database activity.

### Real-time display of database activity

Spotlight has the unique ability to graphically exhibit DB2 LUW components in real time. The main screen displays components such as memory, disk storage and SQL processes. Pulses between these components represent the relative data transfer rate and level of activity.

### Detailed session-tracking capabilities

The top sessions and session details screens allow you to quickly determine which users consume the most resources. Multiple panels show session details about every aspect of user activity, such as SQL statements, SQL I/O, locks and waits over time.

### System component details for rapid resolution

#### Problem users

Users that consume an inordinate amount of resources frequently cause database performance issues. Long-held locks can block other users from their work. Spotlight alerts you when this occurs and identifies those who use too much CPU, memory or I/O and which users are being blocked — often before complaints begin.

### Features and benefits

**History browser** — Provides snapshots of past performance. This pinpoints where and when a problem occurred and helps prevent it from recurring.

**Host monitoring** — Integrates with Spotlight on Unix and Spotlight on Windows to monitor the physical server that runs DB2 LUW. Spotlight on IBM DB2 LUW drilldowns can launch Spotlight on Unix or Spotlight on Windows, as needed.

**Memory analysis** — Monitors and measures procedure cache, data cache, metadata cache, user memory and executable memory to show how your memory is allocated.

**CPU utilization** — Monitors CPU utilization and provides detailed graphical information displaying the time spent on system- and user-related tasks by DB2 LUW.

**Workload management analysis drilldown** — Reviews statistics captured for your DB2 for LUW 9.5 database, as well as DB2 workload management (WLM) information. The drilldown encompasses six key WLM areas (workloads, work classes, work actions, threshold queues, service classes and activities) that you can explore through sub-drilldowns and summary information.

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