IBM Data Server Manager

Simple. Scalable. Smart.

Highlights

- Includes a simple integrated web console for effortless database monitoring and administration
- Provides scalable management of the database environment from anywhere at any time
- Offers smart advice for predictable database execution and performance

The rise in data volumes resulting from growing use of cloud services and mobile applications is forcing organizations to increase the efficiency of existing data management assets and employ more resources to better serve their customers. However, many in-house or multi-vendor data management tools lack end-to-end visibility, usability and scalability. They often struggle to keep workflows and analytics operating at optimum efficiency and are unable to provide the continuous availability needed for ever-increasing transaction volumes. With more application users, organizations must find ways to deliver both speed and analytical insights within today's investment constraints and growth expectations.

IBM® Data Server Manager helps administer, monitor, manage and optimize the performance of IBM DB2® for Linux, UNIX and Windows databases as well as IBM BigInsights® Big SQL environments, and provides similar functions for IBM DB2 for z/OS® databases across the enterprise. It gives database administrators (DBAs) and other IT staff the information they need to proactively manage performance and prevent problems before they impact the business. Plus, it is cloud-ready, can be deployed quickly and easily, and is part of a common management experience shared with IBM dashDB™.

Reduce complexity with simplified monitoring and administration

Data Server Manager provides a simple, integrated web console that helps streamline the ongoing administration of complex database environments, including a DB2 database partitioning feature and

IBM DB2 pureScale® topologies. The customizable dashboard puts you in control, allowing you to view and monitor multiple databases at a glance, isolate and analyze typical database problems, and drill down for more details.

You can efficiently administer DB2 databases, database objects and database instances using the enterprise-ready Data Server Manager infrastructure. Native support for column-organized tables helps saves time while enabling you to take advantage of the breakthrough performance offered by DB2 with BLU Acceleration®. Enhanced navigational capabilities help you rapidly find relevant database objects to simplify query building, editing, tuning and formatting. Configurable alerts and notifications let you react immediately to new problems that may threaten system performance or availability.

Data Server Manager is also designed to simplify client monitoring. Monitoring begins when you initiate a transaction and continues as each component in the infrastructure processes that transaction. Monitoring ends when the application finishes processing and produces the results. Data Server Manager provides a detailed breakdown of the amount of time a transaction spends in each layer for each component, allowing you to identify the source of problems that may impact performance.

A two-step installation process gets Data Server Manager up and running quickly and efficiently. The lightweight installation option eases administration, database exploration and real-time monitoring tasks while conserving storage. You can install it on a single laptop for one user or on a central server for hundreds of users. The optional repository database allows you to record monitoring metrics for historical analysis, identify storage access patterns for capacity planning and track configuration changes for problem determination.

Target operational efficiency with scalable management

Data Server Manager gives you the power you need to support growing infrastructure demands, including the ability to scale up to hundreds of databases. Control capabilities help simplify the initial deployment of database servers and clients and streamline ongoing change management. They also enable instant analysis and a comprehensive view of the data environment to help you uncover anomalies and identify trends.

To optimize storage requirements across the enterprise while improving operational efficiency, Data Server Manager helps you find trapped storage, infrequently accessed objects and compression opportunities for static and dynamic memory. The ability to explore and track changes to database objects and configuration settings from anywhere at any time allows you to continually enforce best-practice settings to address problems faster, avoid outages and improve change management efficiency.

Data Server Manager helps automate data management, including:

- Sending automatic alerts based on your preset thresholds for certain trends and statistics
- Managing configuration change notifications
- Isolating misbehaving clients that could threaten system availability based your predefined rules

Automated management of your data environment lets you focus on supporting the innovation your business demands, rather than spending time on routine administrative tasks.

"Data Server Manager is a completely new product which integrates all important monitoring functions into a single, modern and easy-to-install interface. It was developed with a lot of customer input so we get what we really need."

—Michael Tiefenbacher, IT Consultant and Data Management Specialist, IDS Systems, Germany

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Meet the needs of multiple roles to help speed the data management lifecycle

Although online transaction processing (OLTP) and analytics processing share many common data management requirements and practices, they each have unique requirements for quality of service, backup and recovery, data ingest, data types and data volumes. Data Server Manager enables you to support growing infrastructure demands across both OLTP and analytics processing models.

Data Server Manager gives DBAs and system administrators a dashboard to manage alerts, diagnose problems, improve processing and throughput, and administer environments. In addition, the self-service environment offered by Data Server Manager gives business analysts and developers the capability to edit, validate and execute SQL.

Data Server Manager helps you:

- Meet service-level agreements (SLAs) across OLTP and analytics environments and use cases
- Address developer, DBA and business user productivity requirements
- Enable enterprise IT to work with lines of business (LOBs) by sharing common processes and tooling across roles
- Support hybrid data management deployment patterns, including private cloud, public cloud and on premises
- Support myriad platforms, including data stores deployed to distributed environments on Linux, UNIX and Windows and IBM System z®

As organizations change their deployment environments—perhaps beginning in the cloud at an LOB level and moving to enterprise IT and an on-premises cloud—they can introduce Data Server Manager capabilities to customers through easy-to-consume dashboard environments. As the deployment evolves, they can extend to Data Server Manager Enterprise Edition, increasing the breadth and depth of the tools to support enterprise-wide infrastructures.

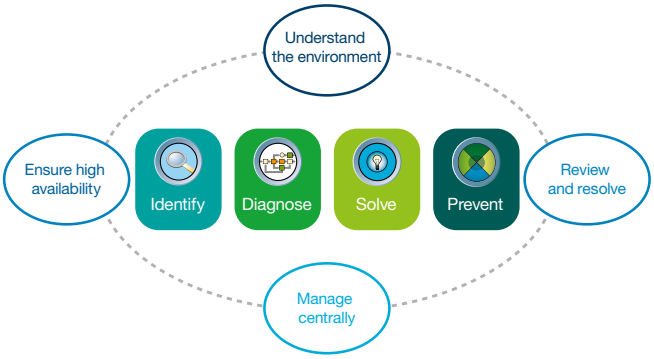

Figure 1. Realize continuous value through efficient management, predictable delivery and availability, and performance optimization.

Meet SLAs with predictable database execution

Addressing application and database performance is the cornerstone of creating a successful data environment. Data Server Manager gives you an intuitive visualization of the enterprise environment, augmented with user-configurable feedback and alerts. It can also guide you through best practices to *identify*, *diagnose*, *solve* and *prevent* bottlenecks to improve overall performance (Figure 1). With this approach, Data Server Manager enables you to manage the overall health of your application environment and maintain optimal performance levels to meet customer expectations.

For example, Data Server Manager reports help you pinpoint costly queries that require tuning or indicate the need for improved capacity planning. You can view estimated performance improvements and use what-if analysis to test indexes virtually before creating them. Data Server Manager provides actionable, precise advice on shadow and column-organized tables, statistical views, materialized query tables (MQTs),

multidimensional clustering and redistribution of data over database partitions. This holistic approach to managing data helps your organization reduce the need to add specialized skills.

Why IBM?

Instantaneous analytics and always-available transactions are essential for modern businesses. Data Server Manager, DB2, dashDB and BigInsights form an ideal foundation to deliver trusted, uninterrupted information throughout your information supply chain. Data Server Manager can help your organization optimize its data environments to consistently meet SLAs, control costs and keep customers happy with a fast, responsive user experience.

Data Server Manager Enterprise Edition is packaged with DB2 Advanced Enterprise Server Edition, DB2 Advanced Workgroup Server Edition and DB2 on Cloud Advanced Edition. Alternatively, you can acquire it as part of the IBM DB2 Performance Management Offering for use with other DB2 editions. In addition, it's also packaged with BigInsights.

For more information

To learn more about Data Server Manager, contact your IBM representative or IBM Business Partner, or visit: **ibm.com**/software/products/en/ibm-data-server-manager. Data Server Manager Base Edition is available for download from IBM developerWorks® at no charge.

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