SQL Server Performance Management Solutions

Easy-to-Use Tools for Extensive Database Analysis, Monitoring, Reporting and Tuning

Overview

Production databases change constantly. And because business results are tied to their productivity, database administrators (DBAs) must be able to proactively diagnose and resolve bottlenecks and scalability issues that threaten service levels. To do this, DBAs need to first establish benchmarks to understand the load and throughput the database systems can handle. Plus, they need to collect metrics and monitor activity around the clock. Finally, DBAs must be able to do both real-time and historical analyses to detect issues and determine proper action plans. With these capabilities, they can maintain operational integrity and end-user satisfaction, while avoiding costly production slowdowns.

Quest's portfolio of SQL Server performance management solutions provide powerful capabilities for SQL Server DBA's to:

- **Detect**
  - Choice of lightweight collection architectures
  - 24x7x365 monitoring
  - Real-time alerts
  - Enterprise visibility
  - Integration with enterprise monitoring solutions
  - At-a-glance instance-level health indicators
- **Diagnose and Resolve**
  - Baselines and trending
  - Built-in expert knowledge and advice
  - Robust dashboards and customizable interfaces
  - Intuitive workflows and context-sensitive drill-downs
  - Real-time and historical analysis
- **Report**
  - Built-in reports
  - Scheduled custom report delivery
  - Performance repositories with published schemas

The portfolio includes the following products:

Spotlight® on SQL Server Enterprise

- **Wait-State Analysis** – Statistics are provided for DBAs to diagnose performance problems caused by waits.
- **Trending** – A variety of views and reports assist with long-term trend analysis.
- **Custom Reporting** – Visibility is provided from the enterprise-level to database-specific performance problems and trends for a clear understanding of almost any area of concern in a SQL Server environment.
- **SQL Analysis** – Non-conforming SQL is highlighted immediately from both real-time and historical perspectives.
- **Historical Playback** – Detailed information is availalble in playback mode to view historical performance alarms, problem escalations and developments, as well as the root causes of performance bottlenecks.

Foglight® Performance Analysis for SQL Server
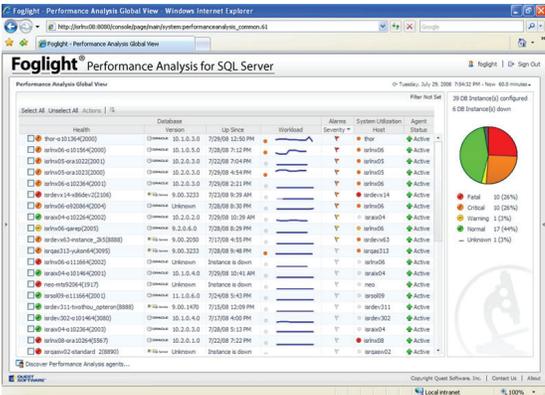
- **StealthCollect®** – High-frequency, in-memory collection provides allows DBAs to do deep SQL-level analysis at a fraction of the overhead imposed by tracing or T-SQL-based collection methods.
- **Context-Sensitive Advisories** – This automated analytic technology and business intelligence is like having an in-house SQL expert review workload data and produce custom reports to guide DBAs toward maximizing performance.
- **True Time-Sensitive Baselines** – The IntelliProfile®algorithm allows DBAs to easily determine the activity that is outside the bounds of expectations and serve as an application expert.
- **Historical Lock Analysis** – DBAs can review detailed historical data on blocking lock scenarios to easily resolve SQL Server concurrency issues.
- **Statement-Level Wait Event Analysis** –Wait event data is available down to the statement level, greatly decreasing the time required to resolve resource-related performance problems.

Foglight® Database Cartridge for SQL Server
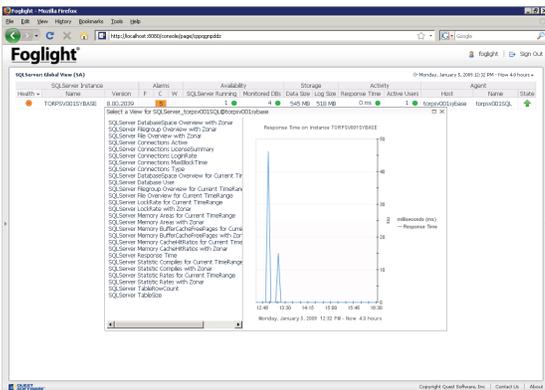
- **A Complete Picture of Database Health**: All components of the database – including the server, operating system, and network – are monitored.
- **SQL Server Metrics and Alarms**: Measurement data, thresholds, and alerts are delivered specifically for SQL Server; this includes information on transaction logs, top users, blocked users, error logs, CPU utilization, memory utilization, and cache hit ratio.
- **Holistic View**: Performance data on databases, applications, and end users are correlated for an end-to-end view of the database environment.
- **Ease of Maintenance**: Adaptive architecture eliminates blindspots and streamlines ongoing system maintenance.

About Quest Software, Inc.

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