



Foglight®

Database Management

Detect, diagnose and resolve performance issues and move to a higher level of service delivery

Your organization depends on uninterrupted access to data. Even the briefest slowdown or outage can be costly—in terms of user satisfaction, service delivery and revenue. That’s why you must ensure your databases run smoothly, all the time.

Database managers and administrators (DBAs) around the world depend on Foglight® to deliver this level of service.

Foglight is a complete performance management solution for your enterprise database environment. It addresses all aspects of database performance—from 24x7 monitoring to advanced analytics and automated tuning. Foglight doesn’t just tell you there’s a problem—it also helps you find and fix the root cause.

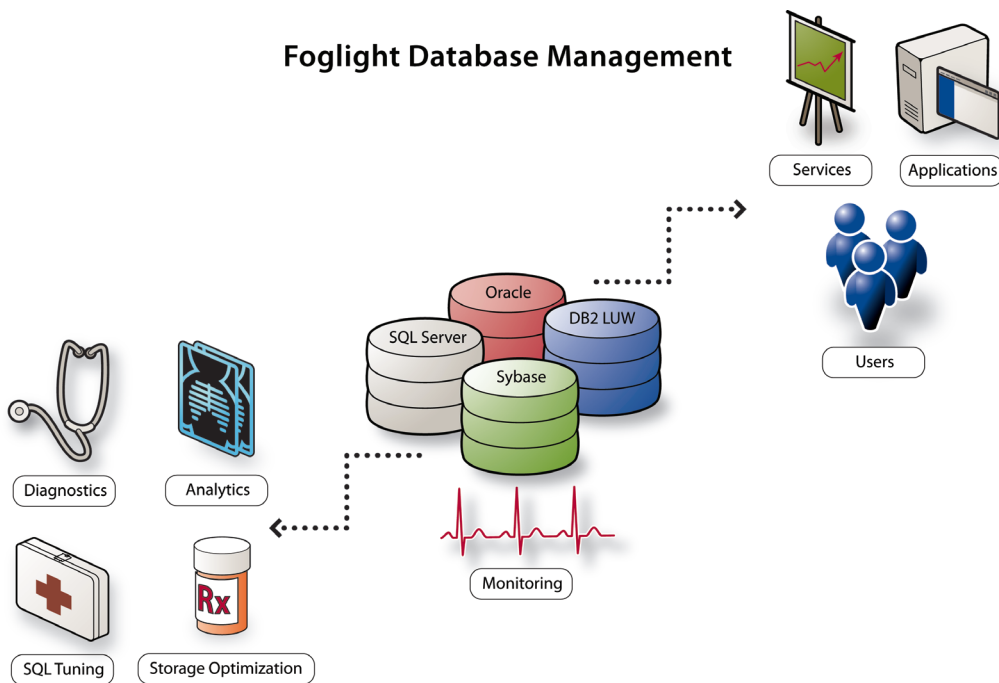
Foglight is truly an enterprise-class solution. It supports:

- Heterogeneous environments that include Oracle, SQL Server, DB2 LUW and Sybase
- Large, high-volume and mission-critical environments
- 24x7 global operations
- Advanced technologies, such as virtualization and clustering (including Oracle RAC)

And Foglight is from Quest Software, the leader in database management. It’s a solution built by database professionals for database professionals. No other product can match the breadth and depth of functionality in Foglight.

- Monitor performance and availability 24x7
- Quickly diagnose problems
- Analyze performance over time
- Proactively tune your databases
- Optimize SQL, the single biggest cause of performance degradation
- Optimize storage to further improve performance and reduce costs
- Take a broader view of database performance:
 - Define and monitor service levels
 - Correlate database performance with end-user performance
 - Understand how database performance impacts application performance

Foglight Database Management



*Foglight provides continuous, unattended monitoring of your databases with the ability to both **drill down** for more detail and **step up** to more strategic service management.*

"When Harvard Pilgrim Health Care deployed our new architecture that included Oracle E-Business, Oracle databases and an enterprise portal, we knew that thousands of customers would use it every day to perform a variety of critical transactions.

To ensure performance, availability and service quality, we looked to Quest's Application and Services Management solution to give us a depth of monitoring, diagnostics and an ease of use that no other solution on the market provides."

— Craig Bogovich
Solution Architect
Harvard Pilgrim Health Care

Deep Insights

Foglight provides unparalleled visibility into your databases. So you can continually tune your databases to maintain and improve performance. Get ahead of emerging problems. And quickly resolve issues before users or applications are impacted. With Foglight, you really know and understand what's going on with your databases. So when problems or questions arise, you're ready with answers.

The Big Picture

You can also manage your databases in the larger context of applications, users and services. That's because Foglight is a complete application and service management solution. With Foglight, you can correlate database performance with application and end-user performance. You can also define and measure compliance with service-level agreements (SLAs). With these broader perspectives, you can align with larger organizational goals and ensure that the services you provide are relevant, recognized and valued.

Read on to learn more about how Foglight can help you move to a higher level of service delivery.

Monitoring

Since you can't keep an eye on everything 24x7, you need a monitor that can. Foglight provides unattended monitoring of all your databases and database servers. You know right away if there's a problem—before users or your manager calls. And because Foglight incorporates Quest's deep database expertise, you get the information and views that really matter to you.

Foglight provides highly functional dashboards that organize and present data in meaningful ways. Out-of-the-box dashboards provide immediate visibility across your environment. You can configure these dashboards to focus on the databases or information you're most interested in, create new dashboards to meet your organization's specific needs, and use roles to manage who sees what. That means everyone—including management—gets information they can understand and use. Plus, with Foglight's innovative model-based approach, you can create any number of dashboards and reports without creating a maintenance nightmare.

Unlike traditional monitors that are inflexible and difficult to deploy and maintain, Foglight is easy to install and administer. Its adaptive architecture is built for change—to accommodate your current environment, as well as changes that will inevitably occur. Rather than having to adjust to the system, the system adjusts to you. Foglight is truly a new approach to monitoring that reduces ongoing administration while providing better coverage and more useful information.

Unique features:

- **Model-based approach** – Separates the physical and logical representations of the managed environment to increase flexibility, eliminate blind spots and streamline system maintenance.
- **Extensibility** – Allows you to modify, replace or add new collectors, transforms and models to meet your specific needs.
- **Investment protection** – Fully incorporates existing scripts and readily integrates with existing monitors, including intelligent forwarding of alerts to prevent "alarm storms."
- **Drag-and-drop interface** – Makes it easy to build and assemble portlets, data items and individual metrics for rapid visualization and reporting.
- **Federation** – Supports multiple management servers to meet business-, operational- and location-specific needs, while maintaining access to enterprise-wide data.

Available for: Oracle, SQL Server, DB2 LUW, Sybase

"Thanks to Foglight, it takes about five minutes to solve a problem now instead of 30 to 60 minutes, helping to improve customer service levels.

Also, Foglight alerts us of issues, such as when our storage levels exceed 80 percent, which saves us nearly three days per month in maintenance time."

— Iqbal Mohammed
Chief of Systems and
Database Administration
Abu Dhabi Commercial Bank

Diagnostics

When Foglight detects a problem, you need to quickly identify the root cause. Spotlight, a companion product from Quest, helps you do precisely that.

Spotlight complements Foglight's real-time monitoring by providing deeper diagnostics on demand. It collects the metrics you need to rapidly troubleshoot performance problems. Spotlight eliminates the need to develop, maintain, document and distribute scripts—things that may not happen reliably in today's fast-moving IT environment, leaving your organization vulnerable. With Spotlight, all your DBAs have ready access to the information they need.

Spotlight organizes and presents data in intuitive, highly graphical displays that represent the processing architecture of the database itself. It also allows you to take corrective action, such as terminating a problematic user session. That means routine problems—like locks—can be resolved quickly, even by level-one administrators.

Unique features:

- **Intuitive display** – Highly graphical interface speeds identification and understanding of performance bottlenecks. Color and motion are also used to aid comprehension.
- **Ease of installation and use** – Simple installation on Windows client allows users to be up and running quickly. The intuitive display eliminates the need for extensive training.
- **Built-in expertise** – Includes expert advice that explains what the data means and provides suggestions on what to do next.

Available for: Oracle, SQL Server, DB2 LUW, Sybase

Analytics

Foglight Performance Analysis provides a wealth of information about your databases. Database managers and administrators who see Foglight Performance Analysis for the first time are literally amazed by the depth of the information available and the ability to drill down along any number of dimensions. They're even more amazed to learn that Foglight Performance Analysis provides all this information without negatively impacting the database.

That's because Foglight Performance Analysis collects workload data directly from memory, completely outside the database. Not only is database performance unaffected, but data is collected even if the database is hung or no connection to the database is available.

You can think of Foglight Performance Analysis as a warehouse for performance data. With it, you can investigate problems that occurred in the past, as well as performance trends that developed over time. You can troubleshoot complex, transient or uncommon problems, thanks to the comprehensive, high-fidelity data that Foglight Performance Analysis provides. You also have access to extensive data for capacity planning, chargeback and other initiatives.

Unique features:

- **StealthCollect™** – High-frequency, low-overhead collection of database transactions and performance metrics directly from memory.
- **IntelliProfile™** – Sophisticated, real-time baselining of performance metrics with immediate notification of out-of-range conditions.
- **Dimensional analysis** – Associates activity to specific users and programs.
- **ChangeTracker** – Identifies operating system and database changes and correlates these changes to database performance.
- **QuickCompare** – Analyzes performance across different time periods, dimensions and baselines.

Available for: Oracle, SQL Server

"IT departments often replace their systems with the latest new offerings. Quest's solutions have allowed us to continue using our existing systems and platforms. Not only are these solutions less expensive and faster to implement, but they're also driving operational efficiencies.

Most important, Spotlight and Foglight provide us with a means to ensure that our business does not suffer due to poor application performance or system downtime."

— Aqil Nasser
Technical Architecture Manager
Debenhams

SQL Tuning

Poorly performing SQL is the single biggest cause of database performance problems. So it's essential that your database management solution includes SQL optimization.

Quest is particularly strong in this area, with a comprehensive solution that eliminates the need for manual time-intensive tuning and delivers superior results. So when problematic SQL causes a performance issue, you can take quick corrective action.

You can also validate that SQL is optimized for your production environment. We collect and analyze SQL from many different sources, including database objects, memory, source code files and stored procedures. We consider different ways to improve performance, including indexing, alternative SQL and changes to the database structure. We benchmark the results, and when you decide to implement a recommendation, we streamline implementation by providing scripts and replacement SQL.

Unique features:

- **Automation** – Automates the entire SQL tuning process, from finding SQL in the environment to identifying tuning candidates and providing the most optimal alternatives. Because the process is automated, you can simultaneously reduce time and effort, achieve better results and increase coverage.
- **Expertise** – Leverages the knowledge and techniques of SQL tuning experts. You essentially gain immediate, unlimited access to your own SQL tuning expert. Everyone benefits, including experienced staff who lack the time and less seasoned staff who lack the expertise to optimize SQL on their own.
- **Validation** – Scans database code to certify that SQL is performing as well as possible. Scans can be run periodically or after a change. Proactively auditing SQL in this way minimizes risk and demonstrates that IT is in control.
- **Impact analysis** – Ensures performance is maintained even as your environment changes. Predicts performance of SQL statements after configuration changes, migrations and upgrades, as well as with new instances and anticipated data growth.

Available for: Oracle, SQL Server, DB2 LUW, Sybase

Storage Optimization

Storage can have a significant effect on database performance. It can also have a huge impact on costs. And with data volumes growing daily, storage is an ongoing challenge. That's why Quest offers storage optimization as part of the Foglight solution for databases.

We ensure that you use your existing storage as efficiently as possible. To that end, we identify unused or fragmented storage and allow you to reclaim that space—often without taking the database offline. We also allow you to reorganize your database—for example, to take advantage of new database features or refresh your database structure. You can even schedule reorg and defrag operations to run periodically to ensure you stay ahead of storage issues.

We also monitor storage utilization and help you plan for future needs. You can analyze storage for any individual database or group of databases.

System Requirements

Database platforms supported:

- Oracle
- SQL Server
- DB2 LUW
- Sybase

Operating systems supported:

- AIX
- HP-UX
- Solaris
- Red Hat Linux
- SuSE Linux
- Windows

For information about specific combinations of database and operating systems supported, please e-mail info@quest.com.

Unique features:

- **Benefit analysis** – Calculates projected savings and provides before and after reports to help plan, prioritize and justify reorg projects.
- **Scalability** – Supports very large databases.
- **Transparency** – Exposes the commands used to accomplish reorgs so you know exactly what actions will be performed.
- **Control** – Allows you to monitor reorgs and specify when switchover will occur. Also provides automatic restart and automatic clean-up.

Available for: Oracle, SQL Server

As the leader in database management, Quest offers a host of capabilities to ensure the performance and availability of your databases. Whether you need robust 24x7 monitoring, diagnostics and analytics to complement your existing monitor, or a complete solution to detect, diagnose and resolve performance issues, there's a Foglight solution that's right for you.

	Foglight Database Monitoring Suite	Foglight Database Performance Suite	Foglight Database Management Suite
Monitoring	✓		✓
Diagnostics	Optional	✓	✓
Analytics		✓	✓
SQL tuning		✓	✓
Storage optimization			✓
Service management	✓		✓

For more information about Foglight, please visit www.quest.com/foglight.

About Quest Software, Inc.

Quest Software, Inc., a leading enterprise systems management vendor, delivers innovative products that help organizations get more performance and productivity from their applications, databases, Windows infrastructure and virtual environments. Quest also provides customers with client management through its ScriptLogic subsidiary and server virtualization management through its Vizioncore subsidiary. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 100,000 customers worldwide meet higher expectations for enterprise IT. Quest helps organizations deliver, manage and control complex database environments through award-winning products for Oracle, SQL Server, IBM DB2, Sybase and MySQL. Quest Software can be found in offices around the globe and at www.quest.com.



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