Foglight® for Amazon Redshift

To keep databases running at peak performance and ensure business continuity, DBAs need granular, real-time information about database performance and availability. Automated alerts, change tracking, compliance reporting and centralized management are also critical, especially in highly distributed environments.

With Foglight® for Amazon Redshift, DBAs can quickly and easily detect, diagnose and resolve performance issues — wherever, whenever and however they occur. Intuitive web-based dashboards alert you to emerging issues that might affect performance or availability, and a clear enterprise-wide view helps you optimize your entire cloud-based Amazon Redshift environment.

Foglight offers unattended 24x7 data collection, while its agentless architecture and minimal footprint ensure overhead is negligible on monitored hosts. And, it's easy to deploy, so you can be up and running in no time.

FEATURES

Foglight provides a real-time, enterprise-wide view along with numerous features that help you optimize the performance of your cloud-based Redshift clusters.

Cluster overview

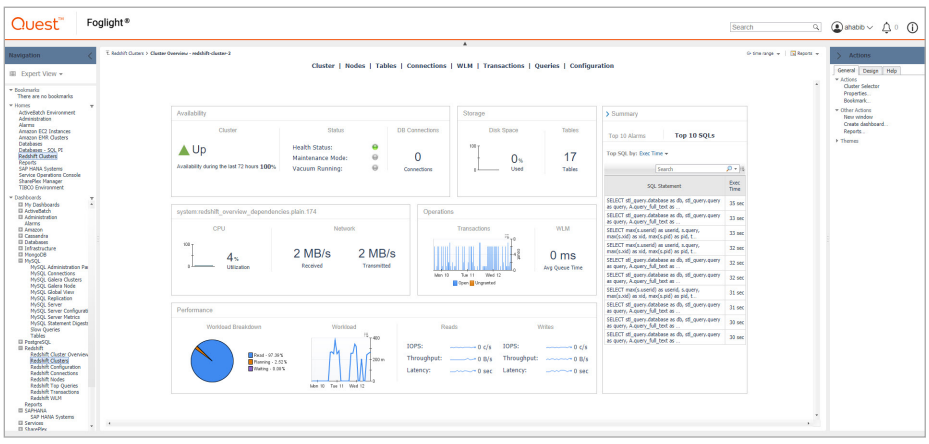
Quickly review cluster health, performance and workload across your Redshift environment. Foglight combines database metrics with host metrics to provide a complete picture of database server performance.

Workload analysis

See the amount of work each cluster is doing to support user requests. Drill down into every dimension of your workload, including connections, operations, storage, SQL performance, WLM, transactions and tables.

Node overview

Understand the health and performance of all your nodes at a glance, including calculated CPU utilization, disk used,



Rapidly detect, diagnose and resolve performance issues across your cloud-based Amazon Redshift clusters.

BENEFITS:

- Helps maintain business continuity by providing real-time performance monitoring of your Redshift environment and delivering intelligent alerts
- Enables understanding of cluster and node health and performance at a glance
- Provides centralized monitoring, management and reporting across datacenters
- Speeds troubleshooting with convenient drill-down into granular metrics and providing relative expert advice
- Provides intelligent alerting with comprehensive workflow to minimize false alarms
- Offers enterprise scalability, allowing you to monitor all your Redshift clusters from a single management server
- Minimizes overhead on clusters and nodes by executing data collection through remote agents

Proactively monitor database health and performance across your entire environment through a single console.

SYSTEM REQUIREMENTS

SOFTWARE

Supported database versions:
Redshift 1.0.9865+.

Requires Foglight Management Server (FMS) version 5.9.2 or higher

FglAM 5.8.5.2 or higher

SUPPORTED DEPLOYMENT LOCATIONS

Both on-premises and cloud deployments

network send/receive rates, operation rate and read/write latency. Drill down to detailed performance statistics for any node simply by selecting that node.

Cluster monitoring

Provides a list of all Redshift clusters with an overview of individual clusters highlighting availability, indicators for maintenance mode and vacuuming, storage utilization, table monitoring, infrastructure monitoring, transactions, WLM, workload, throughput and latency.

Node monitoring

Provides a list of all nodes, health state and key host utilization statistics, along with read/write operations, latency and throughput.

Table monitoring

Manage your tables' health and view all tables by database with key statistics including rows, size, percent used, unsorted and skew information.

Connection analysis

View all database connections with process ID, associated queries and start/stop times. Understand trends for number of connections over time and associated network throughput.

Workload management (WLM)

Ensure the health and availability of your critical WLM components including WLM Health Check, Metrics Collection, CM Statistics, and Operator. Monitor queue processing times and get statistics on queries queued, executing and completed.

Transaction analysis

Track history of open and ungranted transactions. Identify current transactions with detailed metrics including PID, mode, lock type, user and database. See related queries with query start and execution time.

Query tracking

Ensure your query performance by quickly visualizing top queries including any S3 queries. See critical performance information for notable queries. Track query completion rates and average query duration.

Configuration tracking

Ensure the security and compliance of your Redshift cluster by tracking configuration settings and changes. See all changes made in the selected period and understand the impact on transaction processing and resource utilization.

Easy troubleshooting

Speed problem resolution and discover chronic issues with embedded expert advice and convenient drill-down to granular details.

Enterprise-scale monitoring

Monitor dozens of Redshift clusters from a single management server.

Low overhead

Execute data collection through remote agents that ensure minimal overhead (no more than 2% CPU) is added to monitored database instances.

High granularity

Ensure high-integrity data collection with frequent collections, or customize collection frequency to meet your business requirements.

Embedded repository

Store historical monitoring data in the embedded data warehouse — there is no need to purchase or install additional database instances for storage of monitoring data. External repositories can be leveraged in larger deployments.

ABOUT QUEST

Quest provides software solutions for the rapidly-changing world of enterprise IT. We help simplify the challenges caused by data explosion, cloud expansion, hybrid datacenters, security threats and regulatory requirements. Our portfolio includes solutions for database management, data protection, unified endpoint management, identity and access management and Microsoft platform management.

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