

# Foglight® for Cassandra

Rapidly detect, diagnose and resolve performance issues across your physical, virtual and cloud-based Cassandra database servers

Database administrators need granular, real-time information about the performance of their critical clusters so they can quickly identify bottlenecks and resource limitations that could impact database availability. Automated alerts, change tracking, compliance reporting and centralized management are also critical, especially in highly distributed environments.

With Foglight® for Cassandra, 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 cluster performance, node availability, storage capacity, reads and writes, and latency across all your physical, virtual and cloud-based Cassandra database servers.

Foglight offers unattended 24x7 data collection, but 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

### Cluster overview

Review all your Cassandra clusters from a single dashboard, including cluster structure, nodes, health status and key performance metrics. Drill down to expose details for any particular node.

### Node overview

See a comprehensive view of your nodes, with health, alarm, configuration and performance information sorted by category. Review granular information on any node, or compare performance across nodes in the same cluster.

### Keyspace views

Easily view all keyspaces in a cluster, for a selected node, or compare keyspaces across nodes. Quickly identify which objects are accessed most frequently, visualize read/write performance and diagnose latency.

### Table views

View tables on a cluster or a node along with aggregated performance information. Compare tables across different nodes with a single click. Get alerts when

Foglight for Cassandra delivers comprehensive performance monitoring, alerting, diagnostics and analytics for physical, virtual and cloud-based Cassandra database servers.

## BENEFITS:

- Helps maintain business continuity by providing real-time monitoring of database performance and intelligent alerting
- Facilitates cluster optimization with an enterprise-wide view of cluster structure, health status and performance
- Speeds troubleshooting with convenient drill-down into details of nodes, keyspaces and tables
- Provides intelligent alerting with a comprehensive workflow to minimize false alarms
- Offers enterprise scalability, so you can monitor hundreds of Cassandra database servers from a single management server
- Minimizes overhead on monitored database instances by executing data collection through remote agents



Foglight provides a comprehensive view of all your Cassandra clusters from a single dashboard, including their structure, health status and key performance metrics.

## SYSTEM REQUIREMENTS

### SOFTWARE

Supported database versions:  
Cassandra 2.1+

Requires Foglight  
Management Server (FMS)  
version 5.7.5 or higher

### SUPPORTED DEPLOYMENT LOCATIONS

Both on-premises and cloud  
deployments

performance counters deviate from baselines. Predict when additional capacity will be required.

### Connection monitoring

Assess connection performance for all nodes in the cluster. Quickly identify nodes with the most dropped messages, most large completed messages and other useful comparison metrics. Get alerts if timeouts occur or if pending tasks are creating workflow bottlenecks

### JVM monitoring

Understand the performance of Cassandra's underlying JVM with easy-to-read metrics. Optimize garbage collection to avoid memory, throughput and response time problems.

### Client request monitoring

Know how quickly Cassandra is servicing client requests. Be alerted when client request failures occur or timeouts exceed normal rates.

### Comparison reporting

Easily identify configuration discrepancies by comparing node configurations against standard templates or historical data.

### Automated change tracking

See all changes made to a node during a given time period — even through restarts — and determine how each change might have impacted performance.

### Intelligent alerting

Avoid false alerts with adaptive Intelli-profile thresholds, which ensure that alarms are triggered only when baselines are breached. Easily manage and annotate alarms, including scheduling blackouts for maintenance periods.

### Easy troubleshooting

Speed problem resolution and discover chronic issues with embedded expert advice and easy search of your history of alarms and solutions.

### Enterprise-scale monitoring

Monitor hundreds of Cassandra database servers 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

At Quest, our purpose is to solve complex problems with simple solutions. We accomplish this with a philosophy focused on great products, great service and an overall goal of being simple to do business with. Our vision is to deliver technology that eliminates the need to choose between efficiency and effectiveness, which means you and your organization can spend less time on IT administration and more time on business innovation.