

# Foglight® for MongoDB SMA Edition



Comprehensive performance monitoring, alerting, diagnostics and analytics for physical, virtual, and cloud-based MongoDB database servers

Keeping your MongoDB environment running at peak performance is essential to business continuity. Therefore, DBAs need granular real-time information about the performance and availability of their critical databases. Automated alerts, change tracking, compliance reporting and centralized management are also critical, especially in highly distributed environments.

Foglight® for MongoDB enables DBAs to rapidly detect, diagnose and resolve performance issues — wherever, whenever and however they occur. It delivers comprehensive database, storage and virtualization monitoring, as well as advanced workload analytics. Intuitive web-based dashboards provide a consolidated view of your physical, virtual and cloud-based databases, so you can quickly diagnose and resolve issues that might affect database performance or availability.

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

### Global view

Get quick access to health information, key performance metrics and critical alarms for all your database instances, so you can take immediate action to resolve performance issues on MongoDB servers and their host systems.

### Connection monitoring

Easily track the number of current connections and the associated memory requirements. Get alerts when the number of connections exceeds normal limits.

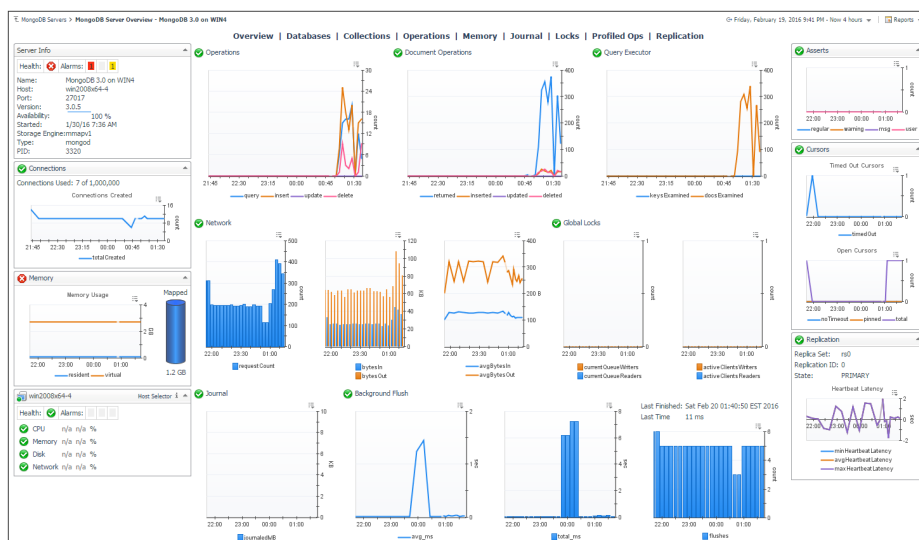
### Memory tracking and analysis

Review a robust set of metrics that shed light on all aspects of memory utilization, including allocated memory and resident memory. Get alerts if allocated memory

Foglight for MongoDB helps you ensure optimal database performance by delivering comprehensive database, storage and virtualization monitoring, plus advanced workload analytics.

## BENEFITS:

- Helps maintain business continuity by providing real-time monitoring of database performance and intelligent alerting
- Facilitates server optimization with monitoring and analysis of connections, allocated and resident memory, page faults, profiled operations, replica sets, locks, and more
- Enables convenient drill-down into details to facilitate quick troubleshooting
- Provides intelligent alerting with a comprehensive workflow to minimize false alarms
- Offers enterprise scalability, so you can monitor hundreds of MongoDB database servers from a single management server
- Minimizes overhead on monitored database instances by executing data collection through remote agents



Thanks to its enterprise scalability, Foglight enables you to monitor hundreds of MongoDB database servers from a single management server.

## SYSTEM REQUIREMENTS

### SOFTWARE

Supported database versions:  
MongoDB 2.4+

Requires Foglight  
Management Server (FMS)  
version 5.7.5 or higher

is insufficient to store all indexes or is insufficient for peak performance.

### Page fault tracking

Receive alerts when the number of page faults is high or increasing, so you can consider increasing allocated memory.

### Database operation analysis

Track and analyze the load on your database with a complete set of database operation statistics, including details on replication and sharding.

### Monitoring of profiled operations

Get comprehensive monitoring for all profiled operations, aggregated into groups for statistical analysis. Include your own queries in the aggregation. View operation-specific information by simply selecting a row. (This feature requires system profiling to be enabled on the MongoDB server.)

### Replica set discovery and monitoring

Automatically discover and monitor MongoDB replica sets, including member status, health, optime date and timeouts. Get alerts if members become unreachable or their status changes, and when optimes are out of sync.

### Shard chunk distribution monitoring

Identify lagging in the sharding process and quickly troubleshoot the root cause, such as high lock percentages.

### Monitoring of journaling

Ensure MongoDB resiliency by monitoring multiple metrics about commits to the journal, as well as background flushes and total time writing the data to disk.

### Lock analysis

Resolve MongoDB concurrency issues in record time with historical lock analysis.

### Comparison reporting

Easily identify discrepancies by comparing node configurations against standard configuration templates, objects and historical data.

### Intelligent alerting

Avoid false alerts with adaptive Intelliprofile 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 MongoDB 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

Quest helps our customers reduce tedious administration tasks so they can focus on the innovation necessary for their businesses to grow. Quest® solutions are scalable, affordable and simple-to-use, and they deliver unmatched efficiency and productivity. Combined with Quest's invitation to the global community to be a part of its innovation, as well as our firm commitment to ensuring customer satisfaction, Quest will continue to accelerate the delivery of the most comprehensive solutions for Azure cloud management, SaaS, security, workforce mobility and data-driven insight.

## ABOUT SMA

SMA develops solutions to extend leading application performance management frameworks and helps customers maximize their investment in enterprise management solutions. Find out more at [www.systemman.com](http://www.systemman.com).