

Foglight 7.1 新版 Release



發佈最後更新日期 Oct 2023

目前最新版本編號為 7.1

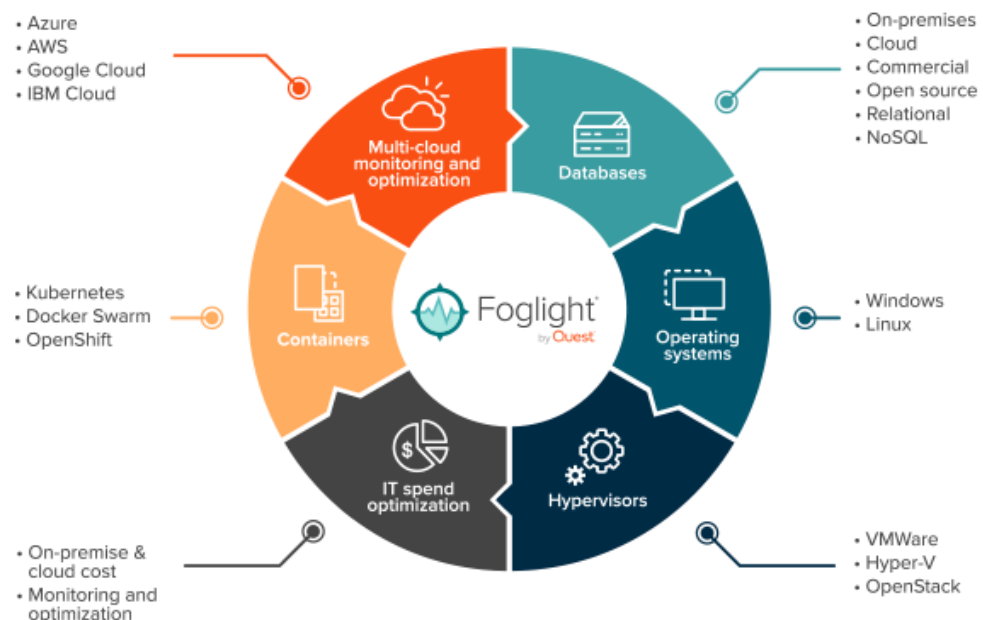
關於 Foglight Management Server

快速檢測，監控，診斷和解決資料庫性能問題

Quest Software Foglight 提供主動監控資料庫健康狀況的平台，提供簡單易操作的網頁介面 – 降低資料庫管理與監控技術門檻，並讓 DBA 能高效率的管理與監控資料庫，可查看目前資料庫效能狀況，相關硬體資源使用分析、多種資料庫監控記錄報表。利用

Foglight 監控工具，DBA 管理人員可以快速發現資料庫效能瓶頸並且及時收到 Foglight 的資料庫監控告警，及早解決資料庫效能問題。

與其他解決方案不同，Foglight 可同時進行多種類型資料庫監控，如 Oracle、SQL Server、DB2、Sybase ASE、SAP HANA、MySQL、MariaDB、Azure SQL DB、Amazon Redshift、Snowflake、PostgreSQL 及 MangoDB，其提供資料庫監控整合介面，可同時瀏覽目前各監控資料庫的效能概況，直觀的工作流程可以幫助企業快速從資料庫可能面臨的瓶頸，找到根本原因，解決問題，可有效縮短問題解決時間。通過對監控環境的全面了解，Foglight 幫助企業團隊協同工作，並優先處理業務中最重要的問題。



Foglight V.7.1 New features 新功能

Foglight 7.1 版本提供了下列新功能與增強功能。

Improvements & Enhancement :

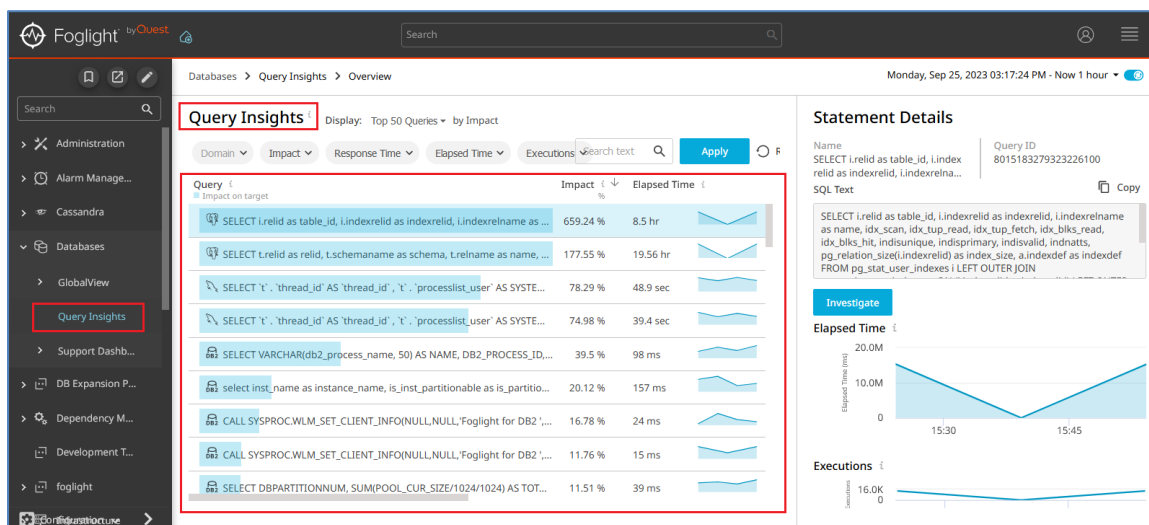
- Updated Java JRE used by Foglight to version 17.0.8

- 新增從收集的查詢中刪除文字的功能.
- 增加對 os_workers 的監控。
- 新增對讀寫檔案延遲的監控。
- 移除在 SQL Server cartridge 中使用 RMI.
- 提供可以設定指定時間停用所有告警 Alarm 的 blackout 類別。
- 使用者體驗增強功能

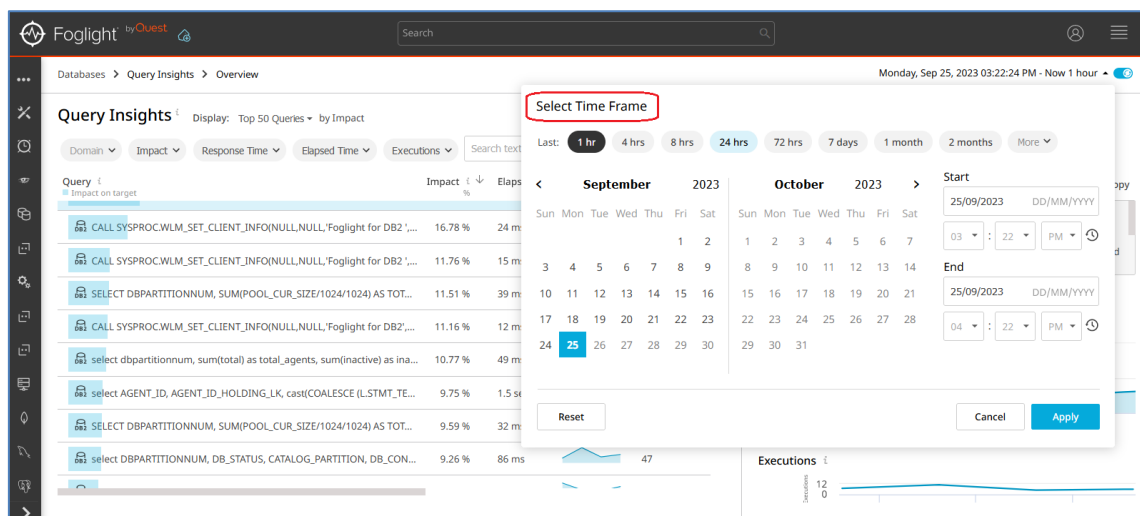
- 新功能 Query Insights

- ◆ 允許 Foglight 的使用者可以同時在 Foglight 網頁上查看不同類型的 Top SQL。

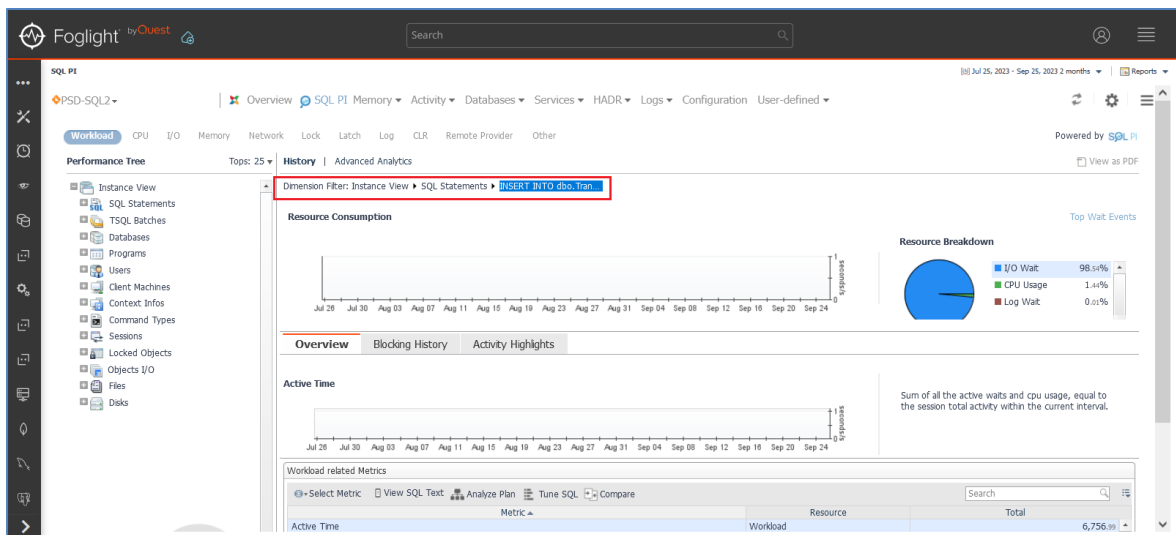
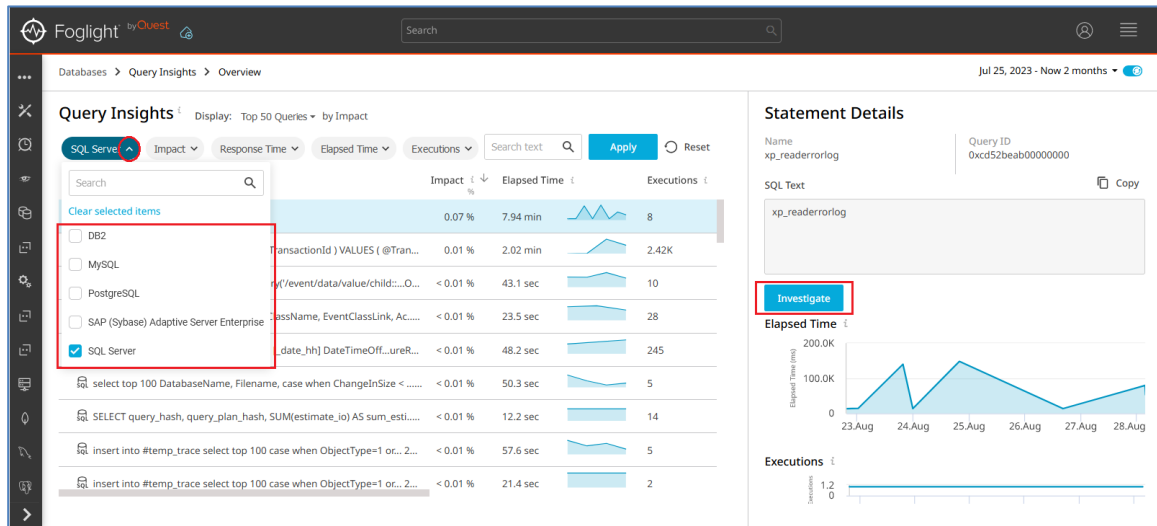
如最常被執行的語法或最耗費時間的 SQL Statement。



◆ 指定查詢時間區間



- ◆ 勾選要過濾的資料庫類別，再按下 Investigate，可以直接切換到查看指定 SQL Statement 的畫面。



◆ 新版 UI 的 Audit Log Dashboard

新版畫面

Audit Log

24.09.2023 04:01 PM - 25.09.2023 04:01 PM Apply

DateTime	Name	User Name	Service	Action	Data
> September 25, 2023 4:00:40 PM		foglight	Scripting	invoke	com.quest.nitro.service
> September 25, 2023 4:00:40 PM		foglight	Scripting	invoke	com.quest.nitro.service
> September 25, 2023 4:00:40 PM	foglight	foglight	RestResourceAccess	Access REST resource through pa...	
> September 25, 2023 4:00:40 PM	Login OK from 10.1.2.69	foglight	SecurityService	authenticate	User foglight successf...
> September 25, 2023 4:00:40 PM	Login OK from 10.1.2.69	foglight	SecurityService	authenticate	User foglight successf...
> September 25, 2023 4:00:40 PM			APILogin	jwtTokenLoginSuccess	
> September 25, 2023 4:00:40 PM	foglight	foglight	RestResourceAccess	Access REST resource through pa...	
> September 25, 2023 4:00:40 PM	Login OK from 10.1.2.69	foglight	SecurityService	authenticate	User foglight successf...

Rows per page: 100

舊版畫面

View Audit Information

Monday, September 25, 2023 3:02:07 PM - 4:02:07 PM 60 minutes Reports

Information about the users who are authenticated upon logging in to Foglight, and user management, or configuration changes, such as changes to Foglight registry and rules.

Time Range	User Name	Service Name	Operation
9/25/23 4:02 PM	AlarmService	clearAlarm (Sybase ASE psd-ase1.psd.com: There were transaction running 293280 minutes : DB sybmgrtdb; login saspid 27; transaction \$del; sql text: NA)	
	foglight	RestResourceAccess	Access REST resource through path : audit-logs/402848d989f86b7b018acb5ace707349 (foglight)
	foglight	RestResourceAccess	Access REST resource through path : audit-logs/402848d989f86b7b018acb5ace80734c (foglight)
	foglight	RestResourceAccess	Access REST resource through path : audit-logs/402848d989f86b7b018acb5ace9f734d (foglight)
	foglight	RestResourceAccess	Access REST resource through path : audit-logs/402848d989f86b7b018acb5aceaf734e (foglight)
	foglight	RestResourceAccess	Access REST resource through path : audit-logs/query (foglight)
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	foglight	Scripting	invoke
	foglight	Scripting	invoke
	foglight	RestResourceAccess	Access REST resource through path : /security/login (foglight)
	n/a	APILogin	jwtTokenLoginSuccess
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	foglight	RestResourceAccess	Access REST resource through path : topsql (foglight)
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	foglight	SecurityService	authenticate (Login OK from 10.1.2.69)
	n/a	SecurityService	authenticate (Login failed from 10.1.2.69)
	n/a	SecurityService	authenticate (Login failed from 10.1.2.69)
	AlarmService	clearAlarm (Sybase ASE psd-ase1.psd.com: There were transaction running 293278 minutes : DB sybmgrtdb; login saspid 27; transaction \$del; sql text: NA)	

- 安全增強功能
 - 提供 Foglight Agent Manager Windows 平台包含可信任的 Quest 憑證的安裝檔。
 - 更新預設加密演算法為 AES-256。
 - 更新 OPEN JDK & JRE 17.0.8。
 - 更新 third-party 的 libraries。
- 改善功能
 - 提供不需 license 的 PagerDuty Cartridge。

Foglight Agent Manager

- 新版 Foglight Agent Manager 為 7.1，需搭配 Foglight Server 7.1 安裝。
- FglAM HA partitions will now automatically fail back to the highest priority FglAM

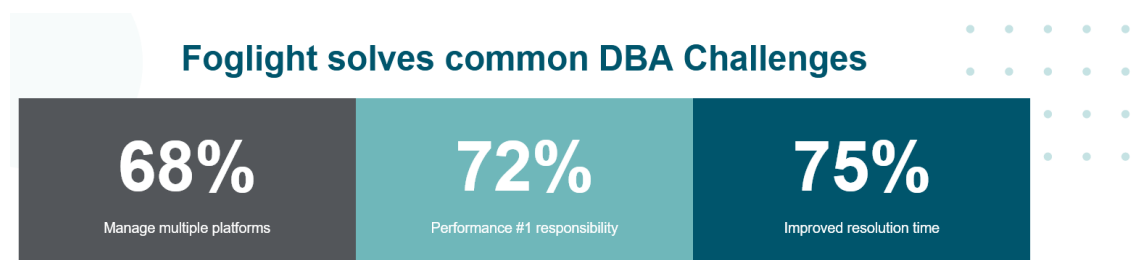
請注意：FglAM 6.3.0.2 已不再支援 32bit 版本的安裝程式。

DB Cartridge

- 所有新版 DB cartridge 為 7.1，皆需搭配 Foglight Server 7.1 安裝。

請注意，下列平台及作業系統已不再支援，若您仍需要支援下列版本，請洽 Quest Support 處理。

- 32-bit Windows
- 32-bit Linux
- Solaris SPARC64
- Solaris 86-64
- CentOS LinuxR 5.x
- MicrosoftR Windows ServerR 2008 R2
- NovellR SUSE Linux Enterprise Server 11.x
- UbuntuR Linux 12.04.x LTS



● 支援監控的資料庫版本

Supported Monitored Databases	
Oracle®	Oracle Database 10g1
	Oracle Database 11g
	Oracle Database 12c
	Oracle Database 18c
	Oracle Database 19c
	Oracle Database 21c
SQL Server®	Microsoft® SQL Server: 2005, 2008, 2008 R2, 2012, 2014, 2016, 2017, 2019, 2022
	Microsoft SQL Server for Windows: 2017, 2019, 2022
	Microsoft SQL Server for Linux: 2017, 2019, 2022
	Amazon RDS for SQL Server2: 2014, 2016, 2017, 2019, 2022
	Azure SQL Managed instance
Azure SQL Database	Azure SQL Database V12
SAP ASE®	Adaptive Server Enterprise: 15.x through 16.0
	Replication Server: 15.0, 15.1, 15.2, 15.7, 16.0
DB2 for LUW	DB2 version 9.53, 9.7, 10.1, 10.5, 11.1, 11.5

MongoDB®	2.4 and above
PostgreSQL®	9.1 and above
MySQL® & MariaDB®	5.5 and above
Cassandra®	2.1 and above

NOTE:

1. Oracle Database 10g — SQL PI supports version 11g and later.
2. For the Amazon RDS for SQL Server, only Standard and Enterprise version are supported.
3. DB2 version 9.5 — Top SQL dashboard not supported.

Foglight product support.

Product Life Cycle

Software			
Version	Full Support as of ⓘ	Limited Support as of ⓘ	Support Discontinued ⓘ
7.1.0	10-Oct-2023		
6.3.0.x	13-Apr-2023		
6.1.0.x	7-Apr-2022	10-Oct-2023	10-Oct-2024
6.0.0.x	28-Jul-2021	13-Apr-2023	13-Apr-2024
5.9.7.x	30-Sep-2020	13-Apr-2023	13-Apr-2024
5.9.5.x	13-Jan-2020	28-Jul-2021	28-Jul-2022

本次版本更新請注意，更新時須先更新 Foglight Server，Foglight Agent Manager，亦需同時更新所有的 DB Cartridge。

已修正問題與增強功能

The following is a list of issues addressed and enhancements implemented in 7.1 Foglight for Databases hot fix release.

Defect ID	Resolved Issue	Cartridge
FOG-5517	Enabled overview links for Redis, SAP Hana, Snowflake & RedShift in the GV table	Foglight for Databases Global View 6.3.0.11
FOG-5819	Fixed charts titles for light theme view	Foglight for SQL Server 6.3.0.20
FOG-5803	Fixed the type in result set limiter of DBO_Data_Guard_Destination_Status_ONE_NODE collection	Foglight for Oracle 6.3.0.20
FOG-5823	Fixed the missing v\$px_session permission in Oracle grant script	Foglight for Oracle 6.3.0.20
FOG-5844	Fixed navigating from Sql-PI tab to to other tabs	Foglight for MySQL 6.3.0.11

don't preserve selected MySQL instance

The following is a list of issues addressed and enhancements implemented in 7.1 Foglight for Databases release.

Defect ID	Resolved Issue	Domain
FOG-5353	Fixed Backup Location collection Failed to get free space of disk.	SQLServer
FOG-5635	TempDB Out of space Alarm not been triggered by SQL Server Rule	SQLServer
FOG-5742,FOG-5745	Databases dashboard grid " # size" columns sort doesn't work	SQLServer
FOG-5819	Some charts title are not visible in Light Theme	SQLServer
FOG-6129	TSQL Batches cannot be expanded for oneof the Sql Server instances	SQLServer
FOG-6115	FOG-6115 Foglight hides import from files after selecting discover	SQLServer
FOG-6636	FOG-6636 Cannot grant SQL Server sysadmin privileges in Connection Details	SQLServer

FOG-6178	FOG-6178 Change the alarm definition in order to align to alarm message on the rule "DBSS - Page Splits"	SQLServer
FOG-5353	FOG-5353 Fixed Backup Location collection Failed to get free space of disk.	SQLServer
FOG-2006	Ability to use an OS non-administrator user for monitoring SQL Server. View the Foglight Agent Manager guide for more details.	SQLServer
FOG-4468	Ability to skip providing power user credentials while using CLI to install a secondary AG node	SQLServer
FOG-4994	Automatically recover from situations where connection in pools becomes invalid	SQLServer
FOG-3817	Fixed- DBSS Long Running Session Alarm fire according to the filter set	SQLServer
FOG-4705	Replaced Microsoft JDBC Driver to a higher level to overcome errors "Encounter TDS_COLMETADATA"	SQLServer
FOG-4752	Fixed- DBSS_database collection fails when the monitored instance has a database using case-sensitive charset	SQLServer
FOG-4566	Fixed- Plan Handle is abbreviated on the Plan Analysis	SQLServer

dashboard		
FOG-4222	Fixed- DBSS_Database_Tables_List show incorrect row count for large partitioned tables	SQLServer
FOG-4242	Add Flag to determine if vss copies are considered as valid backups or not. default - yes	SQLServer
FOG-3678	Fixed- Cannot display TSQL Batch data sometimes	SQLServer
FOG-3925	Fixed- cannot use SQL PI with DB agent having special characters in display name	SQLServer
FOG-3935	SQL Server User Defined Collection support SQL_VARIANT on MSSQL JDBC driver	SQLServer
FOG-4153	Fixed- Database Groups is not created as a Service when running installer via CLI	SQLServer
FOG-4022	Fixed- High CPU and threads consumption when monitored instance is unavailable	SQLServer
FOG-4242	Add Flag to determine if vss copies are considered as valid backups or not. default - yes	SQLServer
FOG-3678	Fixed- Cannot display TSQL Batch data sometimes	SQLServer
FOG-3925	Fixed- cannot use SQL PI with DB agent having special	SQLServer

	characters in display name	
FOG-3935	SQL Server User Defined Collection support SQL_VARIANT on MSSQL JDBC driver	SQLServer
FOG-4153	Fixed- Database Groups is not created as a Service when running installer via CLI	SQLServer
FOG-4022	Fixed- High CPU and threads consumption when monitored instance is unavailable	SQLServer
FOG-5146	Added ability to config PI repository to use SSL using parameter	SQLServer
FOG-6836	Foglight hides import from files after selecting discover	SQL Server
FOG-3735, FOG-5360	Fixed- Clicked on View SQL Text and then it spawns an empty pop-up	Oracle
FOG-4441	Fixed- CPU/RAM not collected for Oracle on AIX	Oracle
FOG-5306	Fixed- Oracle PI shows the wrong number of executions for parallel executions	Oracle
FOG-4972	Fixed- Oracle instances are sometimes missing from the Global View dashboard	Oracle
FOG-4919	Fixed- ORA-1000 (Maximum Number of Cursors Exceeded)	Oracle

	error in Oracle PI.	
FOG-4737	Enhanced Oracle supported character sets	Oracle
FOG-4630	Fixed- Connectivity Validation collection set the wrong instance status	Oracle
FOG-3443	Allow monitoring Oracle target set to read-only	Oracle
FOG-5260	Fixed- Unable to monitor Dataguard when SSL is required	Oracle
FOG-3887	Fixed arithmetic overflow in SAP/ASE collection	SAP ASE
FOG-4835	Fixed - DBSpace collection sometimes failes due to missing temp table	SAP ASE
FOG-3798	Fixed - Empty client id or secret on first login	Foglight
FOG-4485	Change default server URL to use HTTPS	Foglight
FOG-4141	The algorithm used for the encryption of the password of the Foglight repository was changed to AES-256 for increased security	Foglight
FOG-4299	Fixed- Notification channel not allow more than 3 levels in the domain	Foglight
FOG-4217	Alarm Template and Notifications dashboards does not require the Administrator role. Only the "Alarm	Foglight

Management Administrator” role		
FOG-4141	Update server to use AES-256 encryption in non-FIPS mode	Foglight
FOG-4736	Update SQLServer JDBC driver in FMS	Foglight
FOG-3832	Fixed - MariaDB prerequisites check will always return missing prerequisite	MYSQL PI
FOG-3798	Collect statements that run inside packages	MYSQL PI
FOG-3814	Fixed get digest text	MYSQL PI
FOG-2613	Improve database global view for SMA agents	MySQL, Postgress, Cassandra, MongoDB
FOGSNOW-23	Update DB_Global_View_UI to 6.3.0.11	Snowflake
FOGSNOW-19	Add Snowflake to Databases Global View	Snowflake
FOGSNOW-9	Add connection options for OAuth, Proxy Server connection	Snowflake
FOGSNOW-4	Top Query sample collection	Snowflake
FOGSNOW-8	Collection failure if object names include quotes	Snowflake
FOGSNOW-7	Incorrect Warehouse Query Count derived metric	Snowflake
FOGSNOW-5	Warehouse table resetting selected radio button to first	Snowflake

item		
FOGSAPHANA-226	Update min host version to 7.1.0.	SAPHANA
FOGSAPHANA-228	Add resource tracking command for express edition to documentation.	SAPHANA
FOGSAPHANA-195	Support Query Insights.	SAPHANA
FOGSAPHANA-212	Fix inconsistent availability alerting.	SAPHANA
FOGSAPHANA-194	Store SQL Plans as TopologyObject instead of DataObject.	SAPHANA
FOGSAPHANA-174	Cap delta table memory usage.	SAPHANA
FOGSAPHANA-19	Table persistence metrics should be deltas.	SAPHANA
FOGSAPHANA-173	Show SAP HANA system information on host dashboard.	SAPHANA
FOGSAPHANA-227	Fix missing script scope variable in script "SMA_SAPHANA_Alarm_FireAndClean".	SAPHANA
FOGSAPHANA-225	Update SMA_DB_Global cartridge to v7.1.0.10.	SAPHANA
FOGSAPHANA-224	Update DB_Global_View_UI cartridge to v7.1.0.10.	SAPHANA
FOGPGSQL-154	Barman monitoring	PostgreSQL
FOG-6325	Allow configuration of chartset in RS agent	SAP RS
FOG-6325	Allow configuration of chartset in RS agent	SAP RS
FOG-5817	Query Insight - First drilldown using "investigate" use a	Database

wrong timezone		
FOG-6489	Unable to add Redshift agents to database groups	Database
FOGPGSQL-160	Updated JDBC driver to 42.6.0 and DB_Global_View_UI and SMA DB Global versions	MySQL, Postgress, Cassandra, MongoDB
FOGPGSQL-159	Added option to remove literals from SQL text	MySQL, Postgress, Cassandra, MongoDB
FOGMONGO-372	Remove left panel navigation items accesible through nav bar	MongoDB
FOGMONGO-351	Enable setting log level per agent basis	MongoDB
AGENTCORE-7	Log changed agent properties	MongoDB
AGENTCORE-6	Log agent properties at agent startup	MongoDB
FOGMONGO-353	Update cartridge deployment IDs and names	MongoDB
FOGMONGO-350	Base logging on generic agent-core framework	MongoDB
FOGMONGO-400	Update SMA_DB_Global cartridge to v7.1.0.10	MongoDB

FOGMONGO-401	Update DB_Global_View_UI cartridge to v7.1.0.10	MongoDB
FOGCASS-218	Update java driver to v4.17.0	Cassandra
FOGCASS-218	Update java-uuid-generator to v4.3.0	Cassandra
FOGCASS-218	Update javassist to 3.29.2-GA	Cassandra
FOGCASS-218	Update guava to 32.1.2-jre	Cassandra
FOGCASS-224	Update min host version to 7.1.0	Cassandra
FOGCASS-217	Create a lifecycle script to delete old rules	Cassandra
FOGCASS-223	Produce correctly escaped JSON error messages during discover	Cassandra
FOGCASS-213	Remove left panel navigation items accesible through nav bar	Cassandra
FOGCASS-196	Absolutely limit number of tables collected	Cassandra
FOGCASS-221	Update SMA_DB_Global cartridge to v7.1.0.10	Cassandra
FOGCASS-222	Update DB_Global_View_UI cartridge to v7.1.0.10	Cassandra