

Foglight[®] for Azure SQL Database 6.1.5

Release Notes

November 2022

These release notes provide information about the Foglight[®] for Azure SQL Database 6.1.5 release.

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Welcome to Foglight for Azure SQL Database 6.1.5

Foglight[®] for Azure SQL Database 6.1.5 allows database administrators (DBAs) to quickly and efficiently identify performance deviations, determine their root cause, perform comprehensive analyses, and resolve performance bottlenecks. This product provides web-enabled dashboards for centralized visibility, management and health checks for the Azure SQL Database deployed in your environment, as well as proactive alerting and alarm workflows for tracking your responses to critical performance anomalies.

Foglight for Azure SQL Database 6.1.5 is an n-tier application, which leverages a web-based user interface to ensure having complete visibility into the Azure SQL Database infrastructure wherever an Internet connection is available.

These Release Notes cover the resolved issues, known issues, workarounds and other important information about 6.1.5 release of Foglight for Azure SQL Database 6.1.5. Review all sections before starting installation.

New in this release

Version 6.1.5.10 of Foglight for SQL Server contains the following new features and updates:

- Add support for monitoring Azure SQL DB Elastic Pools (FOG-4248).
 - An overview dashboard shows the resource consumption across all Server Elastic Pools and their associated databases.
 - New related Alarms:
 - Usability alarm: Notify when Elastic pool (master DB) is unresponsive and not monitored by foglight.
 - CPU consumption is over a threshold (vCore): Notify when Elastic Pool (vCore) CPU utilization is above the CPU limit threshold.
 - DTU consumption is over a threshold (DTU): Notify when Elastic Pool (DTU) utilization is above the threshold.
 - Data IO consumption is over a threshold (vCore): Notify when Elastic Pool Data IO utilization is above the Data IO limit threshold.
 - Log IO consumption is over a threshold (vCore): Notify when Elastic Pool vCore storage utilization is above the Log IO limit threshold.
 - Storage utilization is over a threshold: Notify when Elastic Pool Storage utilization percent is above the threshold.
 - Max sessions are over a threshold: Notify when the Maximum concurrent sessions percentage reaches the Elastic Pool limit.
 - Permissions needed to monitor elastic pool: connect to the virtual *master* database.
- New ability to add Azure databases to monitor via CLI.
- Support User Level Access for Azure SQL databases and Elastic Pools.

See also:

- [Resolved issues and enhancements](#)

Resolved issues and enhancements

The following is a list of issues addressed and enhancements implemented in this release.

Table 1. Resolved issues

Issue ID	Resolved issue
FOG-4569	Support User Level Access for Azure SQL connections, database and Elastic Pool

Known issues

The following is a list of issues known to exist at the time of release.

General issues

Table 2. General issues

Issue ID	Known issue
FAIO-217	PI engine didn't use new credential changed in Connection Details dashboard. Workaround: Reactive the agent after changing the credential.
FOM-1006	When the monitored user is not an admin, the database is DTU, and the service tier is basic, standard s0, or standard s1, User cannot see data in Blocking (Current) dashboard and there is no data in PI dashboard.
AZFOG-29	When accessing the Database dashboard, no entry to the Upgrade wizard can be found after new version cartridge has been installed. Workaround: Upgrade agent on Agent Status dashboard.
SSFOG-1569	User Level Access and Manage Alarm Blackouts are not supported for 5.9.7.20 Azure SQL DB, and they are not UI limitation/notes.
SSFOG-1629	Azure cannot change RMI setting in Administration. Workaround: Refer to KB: https://support.quest.com/foglight/kb/312636/cannot-update-rmi-for-azure-sql-agent .
GVFOG-207	An error log showed in FMS log for loading heatmap component in FMS version before 5.9.3.
N/A	Cross platform report is not supported for Azure SQL DB.
N/A	Agent does not support MFA (Multi-Factor_Authentication) connections to Azure databases.
N/A	Databases - SQL PI dashboard does not display an Azure SQL database agent configured with SQL PI.
FOG-499	Using the 5.9.7.20 Azure SQL database cartridge, a FMS is configured only with Azure SQL DB agents configured with SQL PI, the Databases - SQL PI dashboard shows "No agent found to be configured with SQL PI. To configure SQL PI go to the Databases - SQL Performance Investigator" or Azure SQL database agents with SQL PI configured are not displayed in the Databases - SQL PI dashboard.

Table 2. General issues

Issue ID	Known issue
FOG-728	When creating a new user account to monitor an instance, If the same account is used as PI repository login to enable PI, the process will failed showing no permission error. Workaround: Manually grant the database user the db_owner role for the new created PI repository database. For more information, refer to KB article 331530 .
FOG-1758	When applying an alarm template to an agent, the Inconsistent Values indication may appear. This indication can be ignored.

Third party known issues

The following is a list of third party issues known to exist at the time of this release.

Table 3. Third-party known issues

Issue ID	Known issue
FGL-20596	Cannot import license into installer with license file name <i>XXX.lic</i> . Workaround: <ol style="list-style-type: none"> 1 When importing license into installer, change license file name to <i>XXX.license</i>. 2 Install <i>xxx.lic</i> after login FMS. 3 Change license file name to <i>XXX.license</i> and put it into license folder before FMS start up.
FOGDG-650	The Foglight Agent Manager (FgIAM) failed to restart when upgrading DB Cartridge, which is due to <i>Could not obtain a deployment lock</i> error. Workaround: Perform the procedure described in the Knowledge Article 266110 .
FOGDG-1372	Cannot use AD account to monitor Azure SQL DB when the FgIAM deploy in Azure VM. Workaround: Upgrade DataDirect driver to version 6.0.
N/A	The Foglight Time Bar Chart click event does not work with Chrome version 40.x.x.x and 39.x.x.x. Refer to https://code.google.com/p/chromium/issues/detail?id=428308 for more information.
N/A	The Windows System Center Endpoint Protection (SCEP) tool and Anti-Virus Protection tools installed on Windows® may negatively impact CPU and system performance of machines running Foglight, Foglight Agent Manager, and the SQL PI repository. To reduce resource consumption it is highly recommended that you exclude the following directory from being scanned by the protection tools: <ul style="list-style-type: none"> • <i><installation directory>:\Quest\<FoglightAgentManager></i>
N/A	Anti-virus software may negatively impact the CPU and system performance of machines running Foglight. To reduce resource consumption, it is highly recommended to exclude the relevant directory, processes, and executables from being scanned by the anti-virus software. For detailed information, refer to the “Configuring anti-virus exclusion settings” in <i>Installing Foglight on Windows with an Embedded PostgreSQL Database</i> .
n/a	When upgrading Foglight, if the FMS is upgraded to version 6.0.0 and the database cartridge is not, the dashboard will display “There is no data to display”. Workaround: When upgrading Foglight to 6.0.0, first upgrade the FMS to 6.0.0, then directly upgrade the cartridges.

Upgrade and Compatibility

The following Foglight product versions and platforms are compatible with this release.

Product Name	Product Version	Platform
Foglight Management Server	6.1.x	All platforms supported by this version of the Foglight Management Server
Foglight Agent Manager	6.1.x	All platforms supported by this version of the Foglight Agent Manager

Note: The monitoring agents available in this version of Foglight for Azure SQL Database 6.1.5 support the Agent Manager HA failover mode, except for the Agent Manager monitoring SQL PI agents. For more information about this mode, see the *Agent Manager Guide*.

System requirements

Before installing Foglight for Azure SQL Database 6.1.5, ensure that your system meets the hardware and software requirements detailed in *Foglight System Requirements and Platform Support Guide*.

Customers running large deployments (that is, with more than 20 agents) should consult the *Foglight for Databases Deployment Guide*.

Required privileges

For information on the required privileges, refer to the *Foglight for Databases Deployment Guide*.

Supported platforms

Foglight for Azure SQL Database 6.1.5 supports monitoring the following platforms:

- Azure SQL DB Elastic Pool

Supported FMS

Foglight for Azure SQL Database 6.1.5 supports monitoring the following FMS:

- 6.1.0 and above

Final Browser Support Notice

Support for Microsoft® Internet Explorer® 8, 9, and 10 has been discontinued in this Foglight release.

Microsoft ended the support for these browsers on January 12, 2016. For more information, visit <https://support.microsoft.com/en-us/lifecycle?p1=13418>.

Troubleshooting

This section provides a list of references which address the most commonly faced issues relating to remote connectivity, allowing for easy troubleshooting using the vendor's information knowledge base:

- To verify TCP/IP connectivity for SQL statement collections, Management Studio (SSMS) cannot be used as other protocols may be leveraged. Instead, verify connectivity using a UDL as detailed here: <https://support.microsoft.com/kb/308075/>.
- You receive error messages when the connection to Azure SQL Database fails. Refer to <https://docs.microsoft.com/en-us/azure/sql-database/troubleshoot-connectivity-issues-microsoft-azure-sql-database> for solutions.

Product licensing

Foglight includes a licensing capability that restricts access to those features that are defined in the license. Any Management Server installation requires a license that grants access to server-specific parts of the browser interface and the features associated with them. Foglight cartridges are also license-protected. While some cartridges are covered by the base Foglight license (such as Foglight Agent Manager cartridges and the Foglight for Infrastructure), others may require an additional license.

Foglight for Azure SQL Database 6.1.5 is covered by the base Foglight license that allows cartridges to be installed.

To activate a trial or a purchased commercial license:

- 1 On the navigation panel, under Dashboards, click *Administration > Setup > Manage Licenses*.
- 2 Click **Install**.
- 3 In the **Install License** dialog box, click **Browse**.
- 4 In the file browser that appears, specify the location of the license file.
- 5 In the **Install License** dialog box, click **Install License**.

Getting started with Foglight for Azure SQL Database 6.1.5

Release Package

The Foglight for Azure SQL Database 6.1.5 release package contains the following:

- Foglight for Azure SQL Database 6.1.5 cartridge:
 - *DB_Azure-6_1_5_10.car*
- Product documentation, including:
 - *Foglight for Azure SQL Database 6.1.5 Release Notes* (this document)

Installation instructions

For installation pre-requisites, permissions, information necessary to determine your environment's hardware requirements, and for installation instructions, see the *Foglight for Databases Deployment Guide*.

Additional resources

Additional information is available from the following:

- Online product documentation (<https://support.quest.com/technical-documents#F>)
- Foglight Community (<https://www.quest.com/community/products/foglight/>)

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

This release has the following known capabilities or limitations: The server will be enabled for Global Operation, but not localized to any particular locale.

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Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

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- Submit and manage a Service Request.
- View Knowledge Base articles.
- Sign up for product notifications.
- Download software and technical documentation.

- View how-to-videos.
- Engage in community discussions.
- Chat with support engineers online.
- View services to assist you with your product.

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 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

Legend

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