

# Foglight<sup>®</sup> for Azure SQL Database 6.0.0

## Release Notes

Developed and tested for Foglight Management Server 6.0.0

June 2021

These release notes provide information about the Foglight<sup>®</sup> for Azure SQL Database 6.0.0 release.

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## Welcome to Foglight for Azure SQL Database

Foglight<sup>®</sup> for Azure SQL Database 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 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 6.0.0 release of Foglight for Azure SQL Database. Review all sections before starting installation.

# New in this release

Foglight for Azure SQL Database monitors the Azure SQL Database activity by connecting to and querying the database. Version 6.0.0 of Foglight for Azure SQL Database contains the following new features and updates:

- Added support for Alarm Templates, which allow you to modify the threshold values for triggering alarms, and enable or disable certain alarms for a set of targets and apply these rules in bulk to targets in your environment.

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-1575	Resolved issue with monitoring Azure SQL databases when the database compatibility level is set to SQL Server 2008.
FOG-1993	Fixed issue with enabling PI when using an AAD user account.

## Issues also resolved in version 5.9.7.10 and 5.9.7.20

Table 2. Issues resolved in version 5.9.7.10

Issue ID	Resolved issue
FOM-22	Fixed an issue where AD account might not be used to monitor Azure SQL DB when the FglAM is deployed in Azure VM.
FOM-313	Fixed an issue when using customized email setting, email might not be sent for the Alarm <i>SQL_AZURE - Database Unresponsive</i> .
FOM-613	Disabled the alarm <i>SQL_AZURE - Blockers Connections Baseline Deviation</i> by default.
FOM-614	Disabled the alarm <i>SQL_AZURE - All Active Connections Baseline Deviation</i> by default.
FOM-744	Fixed an issue when the customers have hundreds of agents, the table records grow very fast. And 'registry_registry_value' and 'registry_registry_variable' take more than 1TB.
FOM-1019	Fixed an issue where the DB agent log might print password information as Pa\$\$word, even if the value has been encrypted.
FOM-1052	Fixed an issue where on-demand data connections might fail unless more TCP ports are opened.

# Known issues

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

## General issues

Table 3. General issues

Issue ID	Known issue
FAIO-217	PI engine didn't use new credential changed in <b>Connection Details</b> dashboard. <b>Workaround:</b> 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 <b>Blocking (Current)</b> 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. <b>Workaround:</b> 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. <b>Workaround:</b> Refer to KB: <a href="https://support.quest.com/foglight/kb/312636/cannot-update-rmi-for-azure-sql-agent">https://support.quest.com/foglight/kb/312636/cannot-update-rmi-for-azure-sql-agent</a> .
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	<b>Databases - SQL PI</b> 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 <b>Databases - SQL PI</b> 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 <b>Databases - SQL PI</b> dashboard.
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. <b>Workaround:</b> Manually grant the database user the <b>db_owner</b> role for the new created PI repository database. For more information, refer to KB article <a href="#">331530</a> .
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 4. Third-party known issues

Issue ID	Known issue
FGL-20596	<p>Cannot import license into installer with license file name <i>XXX.lic</i>.</p> <p><b>Workaround:</b></p> <ol style="list-style-type: none"> <li>1 When importing license into installer, change license file name to <i>XXX.license</i>.</li> <li>2 Install <i>xxx.lic</i> after login FMS.</li> <li>3 Change license file name to <i>XXX.license</i> and put it into license folder before FMS start up.</li> </ol>
FOGDG-650	<p>The Foglight Agent Manager (FglAM) failed to restart when upgrading DB Cartridge, which is due to <i>Could not obtain a deployment lock</i> error.</p> <p><b>Workaround:</b> Perform the procedure described in the Knowledge Article <a href="#">266110</a>.</p>
FOGDG-1372	<p>Cannot use AD account to monitor Azure SQL DB when the FglAM deploy in Azure VM.</p> <p>Workaround: Upgrade DataDirect driver to version 6.0.</p>
N/A	<p>The Foglight Time Bar Chart click event does not work with Chrome version 40.x.x.x and 39.x.x.x. Refer to <a href="https://code.google.com/p/chromium/issues/detail?id=428308">https://code.google.com/p/chromium/issues/detail?id=428308</a> for more information.</p>
N/A	<p>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.</p> <p>To reduce resource consumption it is highly recommended that you exclude the following directory from being scanned by the protection tools:</p> <ul style="list-style-type: none"> <li>• <i>&lt;installation directory&gt;:\Quest\FoglightAgentManager</i></li> </ul>
N/A	<p>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 <a href="#">Installing Foglight on Windows with an Embedded PostgreSQL Database</a>.</p>
n/a	<p>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”.</p> <p><b>Workaround:</b> When upgrading Foglight to 6.0.0, first upgrade the FMS to 6.0.0, then directly upgrade the cartridges.</p>

## Upgrade and Compatibility

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

Product Name	Product Version	Platform
Foglight Management Server	6.0.0	All platforms supported by this version of the Foglight Management Server
Foglight Agent Manager	6.0.0	All platforms supported by this version of the Foglight Agent Manager
<p><b>Note:</b> The monitoring agents available in this version of Foglight for Azure SQL Database support the Agent Manager HA failover mode, except for the Agent Manager monitoring SQL PI agents. For more information about this mode, see the <i>Agent Manager Guide</i>.</p>		

# System requirements

Before installing Foglight for Azure SQL Database, 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 supports monitoring the following platforms:

- Azure SQL Database V12

## 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 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

## Contents of the release package

The Foglight for Azure SQL Database 6.0.0 release package contains the following:

- Foglight for Azure SQL Database cartridge:
  - *DB\_Azure-6\_0\_0.car*
- Product documentation, including:
  - *Foglight for Databases Deployment Guide* (PDF)
  - *Foglight for Azure SQL Database User and Reference Guide* (PDF and online help)
  - *Foglight for Azure SQL Database 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 resources

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>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- 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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