Skills 101 - Foglight

Episode 2

The Why and How to Upgrade

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Quest
Where Next Meets Now.

Agenda

1. **Reasons for upgrading Foglight**

2. **Upgrade challenges**

3. **Considerations for Federation and High Availability**

4. **New features and security enhancements**

5. **Q&A Session**

Reasons to Upgrade

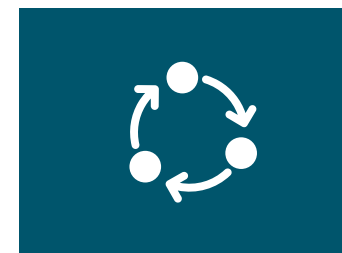|					
Fixes for known issues	New security enhancements	Get access to the latest features	Support for newer platforms	Simpler upgrades when on recent releases	Stay current with versions that are fully supported

https://support.quest.com/foglight/#ProductLifeCycleTable

Full Support, Limited Support, Support Discontinued

Upgrade challenges

Multiple components may need to be upgraded	Different types of configurations
Foglight Management Servers, Foglight Agent Managers and Agents	Standalone, High Availability, Federation

Before the Upgrade

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Documentation to review

Support Portal

Review the current configuration

Create Support Bundles

Get software from the Support Portal

Core vs All In One Installers

Prepare backups!

Before the Upgrade

1. **Documentation to review**
   - Upgrade guide
   - Release notes
   - System Requirements and Platform Support Guide
   - Notices in the Support Portal (Upgrade Caution)

2. **Support Portal**
   - Foglight – Technical Documentation
   - Foglight for Databases – Technical Documentation
   - Foglight Evolve – Technical Documentation

Before the Upgrade

3. **Review the current configuration**

- Component versions
- Deployment types
- Verify compatibility and upgrade path

4. **Create Support Bundles**

- State and configuration of the environment before the upgrade

Before the Upgrade

5. **Get software from the Support Portal**

– Foglight installer, Foglight Agent Manager and Agent cartridges

– Software Downloads

   o [Foglight](#)

   o [Foglight for Databases](#)

   o [Foglight Evolve](#)

6. **Core vs All In One Installers**

– Foglight "Core" installer (only FMS and Infrastructure cartridges)

   o Agent Manager cartridges included in newer releases

– Foglight for Databases installer (includes database cartridges and agent manager)

– Foglight Evolve installer (includes "Evolve" cartridges and agent manager)

Before the Upgrade

7. **Prepare backups!**

– Backup database repositories

  ○ Foglight and SQL Performance Investigator repositories

– Backup of the Foglight installation directories

– Virtual machine snapshot

Standalone Foglight upgrade

support.quest.com/kb/4328213/how-to-upgrade-the-foglight-management-server-fms

Upgrade pro

1. Stop the l

2. Extract an

3. Select "C

4. Confirm tl

5. Select "Upgrade" and complete the installation wizard

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Upgrading Agent Managers

Knowledge Base: support.quest.com/kb/4309631/how-to-upgrade-foglight-agent-manager-fglam

Upgrade process

6. Install the Agent Manager cartridge
   o Windows, Linux or "All"
   o Included with newer Foglight installers

7. Upgrade "Host" from the Agent Managers dashboard

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Upgrading Agents

Knowledge Base: support.quest.com/kb/4227147/how-to-upgrade-the-sql-server-cartridge

Knowledge Base: support.quest.com/foglight/kb/4295876/how-to-update-and-deploy-cartridges-using-the-agent-manager-dashboard

Upgrade process

8. Restart the Foglight Agent Managers before upgrading agents

9. Install Agent cartridges

10. Complete upgrade wizard if required by the agent type

11. Complete manual agent deployment (if no wizard available) from Agent Managers or Agent Status dashboards

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High Availability Environments

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1

Stop all members of the HA cluster

2

Upgrade each of the members individually and sequentially

3

Once upgraded, start all members of the HA cluster

4

Upgrade cartridges once the Management Servers have been upgraded

Primary and standby nodes must be running for cartridges to be synched between nodes

Federation environments

1. **Disable** topology synchronization before upgrading (Best Practice)

   - [FMS_HOME]/config/federation.config

2. **Complete upgrade** process for each child server

   - Same process as a Standalone Foglight upgrade or High Availability if applicable

3. **Upgrade the Federator Master**

   - Cartridge versions should match

4. **Re-enable topology synchronization** once all members have been upgraded

Possible Upgrade Issues

Upgrading environments that use integrated authentication

Conflict with 3rd party applications

Unable to login using LDAP authentication

Incompatible cartridges

Incomplete upgrades

Missing permissions after cartridge upgrades

Sizing / Performance

Software downloads for older versions no longer available

Security Enhancements

- Addressing issues with supporting HTTPS traffic when running in FIPS mode

- Support for gMSA authentication

- Support newer encryption algorithms for SSH connections

- Improvements for SAML authentication

- Added support for Kerberos authentication for monitoring SQL Server

- Upgraded Java Runtime Environment

- Upgraded versions of Tomcat

- Updates to other 3rd party libraries

- Disabled TLS 1.0 and TLS 1.1 for Foglight Management Server

- Weak ciphers disabled in Tomcat

- Updated default encryption algorithm to AES-256

- More about security enhancements in our Release Notes

New Features and Enhancements

1. New Angular User Interface (AUI)

2. Alarm Templates and Notification Channels

3. New Audit Log dashboard

4. New time range selector

5. Introduction of Query Insights

6. Remove literals functionality

7. Global blackouts functionality

New Features and Enhancements

Stability improvements for FglAM HA environments

Open Source and no-SQL databases now part of the Databases menu

Replacement of RMI with a callback mechanism

Databases dashboard will only show tiles if there are monitored targets for a type

Allow database and query insights data to be exported via an Open Telemetry compatible API

SQL Performance Investigator for PostgreSQL

More on new features and enhancements in our Release Notes

Resources

1. Introduction to Alarm Templates (4226070)

2. Notification channels management in Foglight 6.1 and higher (4309162)

3. Planning for authentication with gMSA (4226237)

4. Introduction to Query Insights (4371018)

5. Removing literals in Foglight (4375121)

6. How to blackout all of Foglight (4213624)

7. Foglight 7.1 upgrade fails if integrated authentication is used in existing Foglight environment (4373884)

8. Server running Dynatrace OneAgent fails to install or upgrade Foglight Management Server (FMS) 7.1.0 and higher (4373847)