

**Foglight Skills 101**

**Episode 3**

# My First 80 hours as a Foglight Admin



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**Quest**<sup>®</sup>  
Where Next Meets Now.



**You have just received the  
Foglight admin password.  
It's time to take the next  
steps...**

- Discover essential *support and community resources* to enhance your experience.
- Conduct *version checks* to ensure optimal support coverage.
- Understand the *upgrade requirements* and steps for seamless operation.
- Learn how to *validate your deployment* and perform a thorough *security audit*.
- Review *alarm settings*, explore *templates*, and set up *notification channels* to stay informed.
- Get insights into *report setup* and *access to dashboards*

# Support and Community Resources

# Support and Community resources

- <https://support.quest.com/foglight>

The screenshot shows the Quest Support Portal for Foglight. The top navigation bar includes the Quest logo and links for Products, Solutions, Resources, Services, Support, Trials, Partners, and Communities. A search icon and a user profile icon are on the right. Below the navigation bar, the page title is "Support Portal" and "My Downloads (0)". The main content area is titled "Product Support - Foglight" and includes a breadcrumb trail: Home > Support > Product Support > Foglight. A filter section allows users to "Filter by Version or Model" with a dropdown menu currently set to "7.1.0 (Latest Product Model/Version)". A notifications section is highlighted with a red box, showing "Notifications & Alerts" and "View All Notifications" with navigation arrows, and a notification for "Quest Support Product Release Notification - Foglight 7.1.5 more". Below this, there are tabs for "Most Popular", "Getting Started", "Install & Upgrade", "Maintain & Configure", "Troubleshooting", and "Product Life Cycle & Policies". The page is divided into two columns: "Video Tutorials" featuring a video titled "Foglight - Upgrading the Foglight Agent Manager" and "Knowledge Articles" listing several topics such as "Remove Literals Credential not found" and "How to upgrade the Foglight Agent Manager".

# Support Account

- My Account – verify correct contact details, licenses, products, etc.

The screenshot shows the Quest Support Portal interface. At the top, the Quest logo is on the left, and navigation links for Products, Solutions, Resources, Services, Support, Trials, Partners, and Communities are in the center. A search icon and a user profile icon are on the right. Below the navigation bar, the page title is 'Support Portal' on the left and 'Add To Favorites' and 'My Downloads (0)' on the right. The main content area is titled 'Product Support - Foglight for Databases'. On the left side of the main content, there is a sidebar menu with options: 'Become a portal pro', 'Self Service Tools', 'Knowledge Base', 'My Account' (highlighted with a red box), 'Notifications & Alerts', 'Product Support', 'Software Downloads', 'Technical Documentation', 'User Forums', 'Video Tutorials', and 'What's New'. Below the sidebar, there is a 'Filter by Version or Model' section with a dropdown menu set to '5.9.5 (Latest Product Model/Version)'. To the right of the filter, there is a 'Notifications & Alerts' section with a 'View All Notifications' link and a notification card for 'Quest Support Product Advanced Notification - Foglight Security Advisory more'. Below the filter and notification sections, there is a horizontal navigation bar with tabs: 'Most Popular', 'Getting Started', 'Install & Upgrade', 'Maintain & Configure', 'Troubleshooting', and 'Product Life Cycle & Policies'. At the bottom, there are two main sections: 'Video Tutorials' with a video thumbnail titled 'Foglight for Databases- How to migrate ... Migrating SQL Server and Oracle agents from Info...' and 'Knowledge Articles' with a list of articles including 'SQL Server Based PI Repository Migration Tool User Guide', 'Installing and configuring a SQL Server based PI repository', 'How to migrate SQL Server and Oracle database agents fr...', and 'Using SQL Server RDS as a SQL Server PI repository'.

# Support Notifications

- Notifications & Alerts – security alerts, new releases, etc.

Support Portal My Downloads (0)

Become a portal pro ⓘ

**Self Service Tools**

- Knowledge Base
- My Account
- Notifications & Alerts**
- Product Support
- Software Downloads
- Technical Documentation
- User Forums
- Video Tutorials

**Contact Support**

- Contact Support

Search All Notifications

Home > Support > Notifications & Alerts > Foglight

## Foglight - Notifications & Alerts

Filter to locate your Notifications & Alerts (Choose different product)

All | All (Notification Type) | All (Date Range)

Critical Alerts		Version	Date
Quest Support Critical Product Notification Update - Foglight and the Apache log4j vulnerability		6.0.0	12/17/2021
Quest Support Critical Product Notification - Foglight and the Apache log4j vulnerability		6.0.0	12/14/2021
Quest Support Product Critical Notification - Foglight for Databases 5.9.7.x		5.9.7	1/13/2021
Quest Support Product Advanced Notification - Foglight Security Advisory		5.9.5	3/18/2020
<a href="#">Critical Notification Foglight Management Server (Apache Struts vulnerability)</a>		5.7.5	3/15/2017
Quest Software critical product notification - Foglight 5.7.5.4 Management Server		5.7.5	6/3/2016

Product Release		Version	Date
Quest Support Product Release Notification - Foglight 7.1.5		7.1.0	8/12/2024

# Product Life Cycle

- Verify current supported versions of Foglight and support end dates

The screenshot shows the Quest Product Life Cycle page. On the left is a navigation menu with categories like Knowledge Base, My Account, Notifications & Alerts, Product Support, Software Downloads, Technical Documentation, User Forums, Video Tutorials, and RSS Feed. Below these are 'Services' and 'My Account' sections. The main content area has a filter dropdown set to '7.1.0 (Latest Product Model/Version)'. A notification banner at the top right says 'Quest Support Product Release Notification - Foglight 7.1.5 more'. A horizontal menu below the filter includes 'Most Popular', 'Getting Started', 'Install & Upgrade', 'Maintain & Configure', 'Troubleshooting', and 'Product Life Cycle & Policies' (which is highlighted with a red box). The 'Product Life Cycle' section has a 'Software' tab and a table with columns: 'Version', 'Full Support as of', 'Limited Support as of', and 'Support Discontinued'. The 'Support Discontinued' column header is highlighted with a red box. The table lists versions from 7.3.0 down to 5.9.5.x with their respective support end dates. A note at the bottom states: 'Earlier product versions not listed are considered discontinued.'

Version	Full Support as of	Limited Support as of	Support Discontinued
7.3.0	7-Oct-2024		
7.1.x	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

Earlier product versions not listed are considered discontinued.

# Quest Community

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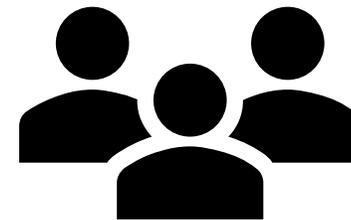
Quest

**Blogs:**

<https://www.quest.com/community/blogs/b/performance-monitoring>

**Forum:**

<https://www.quest.com/community/foglight>



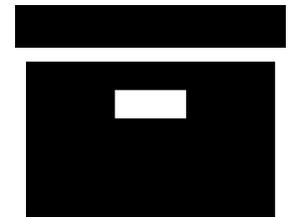
Demo

- Skills 101 has moved to a new location:

<https://www.quest.com/data-management-skills-training/>

- Webcasts have been archived since April 2017 and are organized by category:

<https://www.quest.com/community/blogs/b/performance-monitoring/posts/foglight-skills-101-webcast-series>



# Get to Know Your Account Manager

Quest

01

Your account manager is there to help you

02

Can provide details on the history of Quest in your organization

03

Can get project reports from PSO on customizations, recent work, any remaining hours, etc.

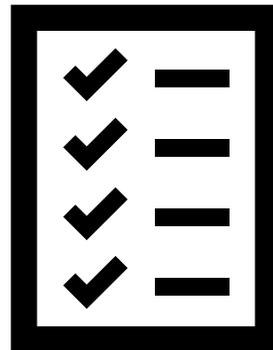
04

Can setup sessions on product “tips & tricks”, etc.

# Versions and Upgrades

# Version check and upgrade planning

- 1. Verify the versions of the Foglight Management Server (FMS)**  
(this is generally what is referenced on the product life cycle page, eg. 7.1.5)
- 2. Verify the cartridge versions for databases, etc.**  
(these can be updated independently from the FMS and are generally performed to enable new functionality)



# Verify FMS Version

The screenshot displays the Foglight Administration console. The top navigation bar includes the Foglight logo, the environment name 'PreSales Demo Environment', a search bar, and user profile icons. The left sidebar contains a search bar and a list of navigation items: Audit Log, Query Insights, Active Directory, Administration (highlighted with a red box), Agents, Cartridges, Credentials, Data, Integration, and Management Server. The main content area is titled 'Administration' and is divided into three columns. The first column contains 'Monitor', 'Agents' (with sub-items: All (90 Active), Credentials (with a red 'x' icon), Global Properties, Agent Managers), 'Rules' (with sub-items: All (1,694), Variables), 'Blackouts', and 'Downloads'. The second column is titled 'Investigate' and contains 'Data' (with sub-items: Retention Policies, Object Cleanup, Derived Metrics, Thresholds, Script Console) and 'Server' (with sub-items: Logs, Performance, Connections, Audit Information, and 'Configuration' highlighted with a red box). The third column is titled 'Administer Server' and contains 'Users & Security', 'Cartridges', 'Email', 'Licenses', 'Schedules', 'Proxy', and 'Support' (with sub-items: Support Bundles, Support Notifications). The top right corner shows the date and time: 'Monday, Oct 7, 2024 02:39:46 PM UTC' and a 'Reports' dropdown menu.

# FMS Configuration and Version

The screenshot displays the Foglight Management Server Configuration interface. The top navigation bar includes the Foglight logo, the environment name 'PreSales Demo Environment', a search bar, and user profile icons. The left sidebar contains a navigation menu with categories like Audit Log, Query Insights, Active Directory, Administration (selected), Agents, Cartridges, Credentials, Data, Integration, Management Server, Rest API, Rules & Notifications, Schedules, and Setup Configuration.

The main content area is titled 'Administration > Management Server Configuration' and shows the following configuration sections:

- Mode:** Standalone (1)
- Children:** 0
- Status:** -
- Peers:** 0

**Server** (2)

Version	7.1.5
Build	7.1.5-202407090824-609b5882-39
Foglight Home	C:\Quest\Foglight
Debug Level	Debug logging disabled
FIPS Mode	false
Trust Store	C:\Quest\Foglight\jre\lib\security\cacerts

**Federation**

Connection URLs	n/a
Max Alarm Update Delay (millis)	50000
Max System Time Difference (millis)	60000
Topology Queries	!TopologyObject
Topology Refresh Period (millis)	300000

**Database** (3)

Database Name	foglight
Embedded	false
Hibernate Dialect	com.quest.nitro.hibernate.SQLServerUnicodeDialect
Host	SQL1
Port	
Secure Connection	false
Type	Microsoft SQL Server 15.00.4382
User	foglight

**JVM** (4)

Name	OpenJDK 64-Bit Server VM
Version	17.0.11 (17.0.11+9-LTS)
Vendor	Azul Systems, Inc.
Architecture (bit)	64-bit
Options	-Xms9216m -Xmx9216m -Dquest.saml.hostname=presales.demo.foglight.com -Dfoglight.data_service.max_past_timestamp_delta=10800000 -Dfoglight.alarm.notification.use.wcf.url=true

(5)

# OS, Mail and Ports

The screenshot shows the Foglight Management Server Configuration page. The breadcrumb navigation is Administration > Management Server Configuration. The page title is 'OpenJDK 64-Bit Server VM'. The OS section is expanded, showing 'Type' as 'Windows Server 2022 amd64 10.0, x86\_64'. The Mail (Global Settings) section is also expanded, showing various configuration options. The Ports section is also expanded, showing various port configurations.

Monday, Oct 7, 2024 01:40:57 PM - Now 1 hour | Reports

OpenJDK 64-Bit Server VM	
Name	OpenJDK 64-Bit Server VM
Version	17.0.11 (17.0.11+9-LTS)
Vendor	Azul Systems, Inc.
Architecture (bit)	64-bit
Options	-Xms9216m -Xmx9216m -Dquest.saml.hostname=presales.demo.foglight.com -Dfoglight.data_service.max_past_timestamp_delta=10800000 -Dfoglight.alarm.notification.use.wcf.url=true

OS	
Type	Windows Server 2022 amd64 10.0, x86_64
Patch	

WCF	
Version	3.9.4.0
Build	DeveloperBuild

Mail (Global Settings)	
Connection Timeout	Not Globally Configured
From	noreply@quest.com
SMTP Host	abc.com
SMTP Port	587
Recipient	Not Globally Configured
Socket Timeout	Not Globally Configured
User	apikey
Use STARTTLS	true
Use SSL	Not Globally Configured

Ports	
Cluster Mcast	45566
HTTP	8080
HTTPS SSL	8443
Server Federation Port	1099

# Verify Cartridge Versions

The screenshot shows the Foglight by Quest interface. The top navigation bar includes the Foglight logo, the environment name 'PreSales Demo Environment', a search bar, and user profile icons. The left sidebar contains navigation options like Audit Log, Query Insights, Active Directory, Administration, Agents, Cartridges, Cartridge Inventory, Components for Do..., Credentials, Data, and Integration. The main content area is titled 'Cartridge Inventory' and includes a search bar and a 'Reports' dropdown. Below the title is a description: 'The Cartridge Inventory dashboard contains controls for installing, enabling, disabling, and uninstalling cartridges, as well as for viewing information about the installed cartridges.' There are two tabs: 'Installed Cartridges' (active) and 'Core Cartridges'. The 'Installed Cartridges' tab shows a table with columns for 'Status', 'Cartridge Name', and 'Version'. The table lists various cartridges such as DB\_Global\_View\_UI, DB\_MySQL\_PI, DB\_Oracle, and Dependency-Administration, along with their respective versions.

Monday, Oct 7, 2024 02:45:26 PM UTC | Reports

### Cartridge Inventory

The Cartridge Inventory dashboard contains controls for installing, enabling, disabling, and uninstalling cartridges, as well as for viewing information about the installed cartridges.

**Installed Cartridges** | Core Cartridges

Status	Cartridge Name	Version
<input type="checkbox"/>	DB_Global_View_UI	7.1.0.10
<input type="checkbox"/>	DB_Global_View_UI	7.2.3.10
<input type="checkbox"/>	DB_MySQL_PI	7.2.3.12
<input type="checkbox"/>	DB_MySQL_PI_UI	7.2.3.12
<input type="checkbox"/>	DB_Oracle	7.2.3.12
<input type="checkbox"/>	DB_Oracle_UI	7.2.3.12
<input type="checkbox"/>	DB_SQL_Server	7.2.3.12
<input type="checkbox"/>	DB_SQL_Server_UI	7.2.3.12
<input type="checkbox"/>	DB_Sybase	7.1.0.10
<input type="checkbox"/>	DB_Sybase	6.1.0.11
<input type="checkbox"/>	DB_Sybase	6.3.0.10
<input type="checkbox"/>	Dependency-Administration	5.9.9
<input type="checkbox"/>	Dependency-Extension	5.9.9
<input type="checkbox"/>	Dependency-Mapping	5.9.9
<input type="checkbox"/>	Dependency-Mapping-Help	5.9.9
<input type="checkbox"/>	Dependency-Operation	5.9.9
<input type="checkbox"/>	Docker-Swarm-Agent	7.1.0
<input type="checkbox"/>	DRP	7.1.0

# Upgrade Planning

**Determine what needs to be upgraded (FMS, Agent Manager, cartridges) and the urgency (see product lifecycle tab on support)**

- There may be dependencies that a cartridge needs, etc.

**Backup all relevant components including FMS and PI databases**

**Run through the upgrade in your test / green environment**

**Generally: run the “all-in-one” installer if it’s a full upgrade of all components**

- Use Agent Managers dashboard to upgrade the agent managers and some agents
- Use Databases dashboard for SQL Server, Oracle, DB2

# Deployment Validation

# Deployment validation

Quest

## Review

Review deployment guide for compute resource requirements

## Validate

Validate against your current implementation

## Check

Check Agent Managers dashboard for number of agent managers, agent count per manager, any alarms or disconnected agent managers

# Deployment Guide

The screenshot shows the Quest Support Portal interface. At the top, the Quest logo is on the left, and navigation links for Products, Solutions, Resources, Services, Support, Trials, Partners, and Communities are in the center. On the right, there are search and user profile icons. Below the navigation bar, a dark header contains a hamburger menu icon, the text 'Support Portal', and a shopping cart icon with 'My Downloads (0)'. The main content area has a breadcrumb trail: Home > Support > Technical Documentation > Foglight for Databases. The title 'Foglight for Databases - Technical Documentation' is prominently displayed. Below the title, a filter instruction reads 'Filter to locate your release notes, guides or manuals (Choose different product)'. There are three dropdown menus: the first is set to '7.1.0 (Latest Product Model/Version)', the second is highlighted with a red box and set to 'Deployment Guide', and the third is set to 'Or Filter by Module'. Below the filters, a text prompt says 'Browse below by document title to locate, download or read online relevant product information'. Under the heading 'Deployment Guide', a single document entry is shown: 'Foglight for Databases Shared 7.1.0 Deployment Guide' with an information icon and a 'view pdf' link.

Quest

Products ▾ Solutions Resources ▾ Services ▾ Support ▾ Trials Partners ▾ Communities ▾

Support Portal

My Downloads (0)

Become a portal pro ⓘ

Self Service Tools ^

- Knowledge Base
- My Account
- Notifications & Alerts
- Product Support
- Software Downloads
- Technical Documentation
- User Forums
- Video Tutorials
- RSS Feed

Home > Support > Technical Documentation > Foglight for Databases

## Foglight for Databases - Technical Documentation

Filter to locate your release notes, guides or manuals (Choose different product)

7.1.0 (Latest Product Model/Version) ▾ Deployment Guide ▾ Or Filter by Module ▾

Browse below by document title to locate, download or read online relevant product information

### Deployment Guide

Foglight for Databases Shared 7.1.0 Deployment Guide ⓘ [view pdf](#)

# Agent Managers Dashboard

**Agent Managers**

Use the Agent Managers dashboard to manage agent packages and create agents on Agent Managers.

[Download Agent Manager Software](#) [Agent Adapters](#) [Disconnected Agent Managers \(1\)](#)

Create Agent Deploy Agent Package Undeploy Agent Package Upgrade Restart Edit Tags

	Alarms State	Host Name	IP Address	Version	OS Name	OS Architecture	Upgradable		Latest Log File	Support Bundle	Agents Count	Agents		Debug Level	Last Data Submission	JVM Config
							Host	Agent				Agents Summary	Agent Status			
<input type="checkbox"/>		ec2amaz-m4def7	172.31.40.161	7.1.5	Microsoft Windows Server 2022 Datacenter	x86_64	No	No			16				2024-10-07 14:52:59	
<input type="checkbox"/>		fglam.imdemo.local	10.2.0.10	7.1.5	Microsoft Windows Server 2022 Datacenter	x86_64	No	Yes			75				2024-10-07 14:52:53	
<input type="checkbox"/>		ukfglamqsft	10.240.88.5	7.1.5	Microsoft Windows Server 2016 Datacenter	x86_64	No	No			1				2024-10-07 14:52:05	

Tasks

# Consider Additional Deployments

There is no license cost for FMS when used for Database-only monitoring

Good practice to have a “non-production” install in order to validate upgrades, etc.

Consider installing a small, “vanilla” FMS (sandbox)

Use it to check what is “out of the box” vs. customized

I have one installed on a laptop with 2 cpu and 4 GB RAM.. And it works fine!

# Security / Audit

## Verify

- Verify the methods users are using to connect to Foglight (SAML, AD, native)

## Check

- Check the groups and roles that users are mapped to

## Pay

- Pay attention to those in the Foglight Security Administrators and Foglight Administrators groups

## Check on

- Check on any custom groups or roles (this is where the “vanilla” FMS can help!)

## Create

- Create a “backup” admin login and change the “Foglight” user password

The screenshot displays the Foglight Security dashboard. The top navigation bar includes the Foglight logo, the environment name 'PreSales Demo Environment', a search bar, and user profile icons. The left sidebar contains a navigation menu with categories like Tooling, Users & Security, Alarm Management, AWS Hosts, BMC Remedy, Capacity Director, Cloud Manager, Cloud Migration, Consolidation Advisor, Container, Databases, DB Expansion Pack, Dependency Mapping, and Development Tools. The main content area is titled 'Users & Security Management' and includes a search bar and a 'Reports' button. The dashboard features several informational cards: 'User Look Up' with a search input and 'Look up' button; 'Manage Users, Groups, Roles' with statistics on users, groups, and roles; 'Password Policy Settings'; 'Directory Services Settings' with a note that LDAP is not configured; 'SAML 2.0 Integration Settings' with the configured URL; 'User Session Settings'; and 'Dashboard Access Control Settings'.

**Foglight** by Quest | PreSales Demo Environment | Search | Monday, Oct 7, 2024 01:59:26 PM - Now 1 hour | Reports

## Users & Security Management

Use this dashboard to manage users, groups, and roles, and to configure password policy settings and LDAP.

### User Look Up

· Enter part of the user name.

**Manage Users, Groups, Roles**

- There are **90** users (**78** managed by Active Directory).
- There are **7** groups (**0** managed by Active Directory).
- There are **63** roles.

**Directory Services Settings**

- Use the Directory Services dashboard to edit any LDAP settings to integrate Foglight with Active Directory.
- LDAP is not configured.

**SAML 2.0 Integration Settings**

- Use the SAML 2.0 Integration Services dashboard to edit any SAML 2.0 settings to integrate Foglight with SAML Identity Provider.
- SAML 2.0 has been configured for <https://presales.demo.foglight.com/>.

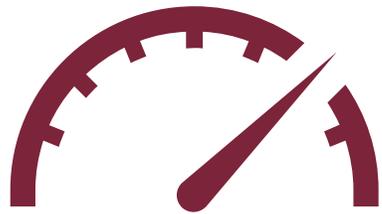
The screenshot shows the Foglight User Management interface. The top navigation bar includes the Foglight logo, the environment name 'PreSales Demo Environment', a search bar, and user profile icons. The main header shows the current path: 'Users & Security Management > User Management'. The page title is 'User Management', and a sub-header provides instructions: 'Select the corresponding tab to manage users, groups, or roles. You can create users internally or import them using LDAP. You can place a user in one or more groups. Assign roles to a user using the Groups tab.'

There are three tabs: 'Users', 'Groups', and 'Roles'. The 'Groups' tab is active. Below the tabs are buttons for '+ New Group', 'LDAP groups...', 'Remove Groups', and 'User Preferences'. A search bar is located on the right side of the group list.

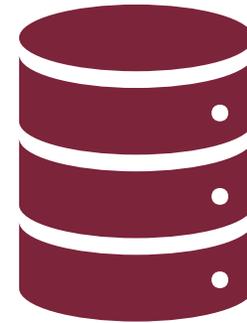
<input type="checkbox"/>	Name ▲	Roles	Users	Type
<input type="checkbox"/>	Cartridge Developers	Console User, Cartridge Developer	Contains 25 users	Built-In
<input type="checkbox"/>	DBA_LockDown	<a href="#">Assign roles...</a>	database	
<input type="checkbox"/>	Foglight Administrators	Take on 30 roles	Contains 1	
<input type="checkbox"/>	Foglight Operators	Take on 7 roles	Contains 1	
<input type="checkbox"/>	Foglight Security Administrators	Command Line Access, Security	Contains 9	
<input type="checkbox"/>	Foglight Users	Take on 32 roles	Contains 8	
<input type="checkbox"/>	SQL_App_DBA	App_DBA_Role	Contains 6	

A modal window is open for adding users to the 'Foglight Administrators' group. The modal has a search bar with 'darren' entered. Below the search bar is a list of 'User Names' with checkboxes:

- darren
- Darren.Mallete@quest.com



Use Audit dashboard for time period to show internal Foglight events/changes along with user interactions



Data is stored in a user readable format.. Query the auditing\_log table in the FMS repository DB

# Audit

**Foglight** by Quest | PreSales Demo Environment | Search

**Audit Log**

06.10.2024 11:02 AM - 07.10.2024 11:02 AM

DateTime↓	Name	User Name	Service	Action	Data
> October 7, 2024 9:56:18 AM	Jobs Failed. The SQL Server Job LiteSpeed ...	__service__	AlarmService	clearAlarm	
> October 7, 2024 9:41:25 AM	Jobs Failed. The SQL Server Job LiteSpeed ...	__service__	AlarmService	clearAlarm	
> October 7, 2024 9:32:30 AM	Login OK from 20.228.174.10	foglight	SecurityService	authenticate	User foglight successfully logged in fro
> October 7, 2024 9:26:25 AM	Jobs Failed. The SQL Server Job LiteSpeed ...	__service__	AlarmService	clearAlarm	
> October 7, 2024 9:24:09 AM	Login OK from 20.228.174.10	foglight	SecurityService	authenticate	User foglight successfully logged in fro
> October 7, 2024 9:24:06 AM	Login OK from 20.228.174.10	foglight	SecurityService	authenticate	User foglight successfully logged in fro
> October 7, 2024 9:24:02 AM	Login OK from 20.228.174.10	foglight	SecurityService	authenticate	User foglight successfully logged in fro
> October 7, 2024 9:24:02 AM	Login OK from 20.228.174.10	foglight	SecurityService	authenticate	User foglight successfully logged in fro
> October 7, 2024 9:24:02 AM	Login OK from 20.228.174.10	foglight	SecurityService	authenticate	User foglight successfully logged in fro
> October 7, 2024 9:24:01 AM	foglight	foglight	RestResourceAccess	Access REST resource through pa...	

Navigation menu: Credentials, Data, Integration, Management Server, Rest API, Rules & Notifications, Schedules, Setup (Audit Log), Blackouts, Connection Status, Email Configuration

# Audit

```
/****** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [id]
, [name]
, [service]
, [method]
, [entity_id]
, [user_name]
, [time]
, [data]
, [old_version]
, [new_version]
, [service_id]
FROM [foglight].[dbo].[auditing_log]
```

100 %

Results Messages

	id	name	service	method	entity_id	user_name	time	data	old_version
1	8a8280898a91a2ea018b0d5f9b411e0a	Jobs Failed. The SQL Server Job Deadlock_Noise2 ...	AlarmService	clearAlarm	27ceb59b-24c7-4626-9a78-3977ddeb21dd	__service__	2023-10-08 03:40:51.393	NULL	NULL
2	8a8280898a91a2ea018b0d5f9b9f1e0c	Jobs Failed. The SQL Server Job Deadlock_Noise3 ...	AlarmService	clearAlarm	7537caff-ceb4-475b-a23e-0f7db43b044d	__service__	2023-10-08 03:40:51.487	NULL	NULL
3	8a8280898a91a2ea018b0d635b251e0e	Jobs Failed. The SQL Server Job SSIS - Currency Ma...	AlarmService	clearAlarm	b17aa807-0220-4516-ba7f-0e0dbd145a33	__service__	2023-10-08 03:44:57.127	NULL	NULL
4	8a8280898a91a2ea018b0d635b731e10	Jobs Failed. The SQL Server Job Generate Deadlock...	AlarmService	clearAlarm	c1405841-946b-4ac0-a51c-da02b117aff2	__service__	2023-10-08 03:44:57.203	NULL	NULL
5	8a8280898a91a2ea018b0d6d67e41e12	Jobs Failed. The SQL Server Job Deadlock_Noise2 ...	AlarmService	clearAlarm	bc84f9f4-e831-4760-8f7a-c869d77e2ce5	__service__	2023-10-08 03:55:55.747	NULL	NULL
6	8a8280898a91a2ea018b0d6d68511e14	Jobs Failed. The SQL Server Job Deadlock_Noise3 ...	AlarmService	clearAlarm	3b6a69ad-eb71-4d43-8305-57de2f4755e9	__service__	2023-10-08 03:55:55.857	NULL	NULL
7	8a8280898a91a2ea018b0d7120a61e16	Jobs Failed. The SQL Server Job SSIS - Currency Ma...	AlarmService	clearAlarm	46e77d36-c4ef-4c57-83a9-9dd98bdfa746	__service__	2023-10-08 03:59:59.653	NULL	NULL
8	8a8280898a91a2ea018b0d77edc91e1a	>> Failure: Cannot establish connection to SQLAG2: ...	AlarmService	clearAlarm	27de0819-7a7b-46d6-bb53-d5673b94ed8a	__service__	2023-10-08 04:07:25.387	NULL	NULL
9	8a8280898a91a2ea018b0d799ac31e1b	>> Failure: Cannot establish connection to SQLAG1: ...	AlarmService	clearAlarm	43a08cfb-b55b-48e2-b500-a3a04fae6caf	__service__	2023-10-08 04:09:15.203	NULL	NULL
10	8a8280898a91a2ea018b0d7b12041e1f	Jobs Failed. The SQL Server Job Deadlock_Noise2 ...	AlarmService	clearAlarm	742fd2be-4dbd-45bb-bcce-a56e46530572	__service__	2023-10-08 04:10:51.267	NULL	NULL
11	8a8280898a91a2ea018b0d7b12421e21	Jobs Failed. The SQL Server Job Deadlock_Noise3 ...	AlarmService	clearAlarm	dc2c8b62-d821-4a64-80aa-3a43741ebf07	__service__	2023-10-08 04:10:51.330	NULL	NULL
12	8a8280898a91a2ea018b0d7e89ca1e2a	>> Failure: Cannot establish connection to sqlag1.im...	AlarmService	clearAlarm	9ff5377a-dd3a-4a45-9b2c-4f883843d864	__service__	2023-10-08 04:14:38.537	NULL	NULL
13	8a8280898a91a2ea018b0d7ee8521e2c	Jobs Failed. The SQL Server Job SSIS - Currency Ma...	AlarmService	clearAlarm	8bf25253-b100-4db2-a4d8-f745ec644d94	service	2023-10-08 04:15:02.737	NULL	NULL

# Databases – User Level Access

Quest

1. Check if User Level Access is being used on the Databases dashboard
2. If so, verify that users/groups are mapped correctly and still valid



Demo

# Alarm Analysis and Review

# Alarm Analysis Dashboard

---

Quest

- The Alarm Analysis tab of the Alarms dashboard is very useful
  - What alarms have fired? How many times over the time interval?
  - What are the most frequent alarms?
  - What severities are firing the most?



# Alarm Analysis

Foglight<sup>™</sup> by Quest | PreSales Demo Environment | Search

Alarms | Sep 30, 2024 - Now 7 days | Reports

Alarms

This dashboard shows the information of system alarms and changes, and facilitates the investigation of top issues in your environment.

Alarms by Time | Heatmap | **Alarm Analysis** | Foglight Today | Foglight Now | Blackouts

**Alarms by Source**

Alarm Source	Alarm Count	Severities			Alarm Duration		
		F	C	W	Min	Max	Avg
DBSS - Jobs Failed	2,463			2463	4.9 min	3.1 d	1.5 hr
Redshift WLM Queue Bottleneck	868	868			2.9 min	55 min	8.1 min
DBSS - Page Splits	768			768	2.7 min	8.0 min	5.0 min
Memory Shortage Windows	758	30	101	627	48 sec	3.2 d	47 min
Catalyst Database Latency Check	628	123	225	280	5.0 min	25 min	5.8 min
DBSS - Connection Time	587		389	198	4.8 min	3.2 d	1.1 hr
DBO - Collection Status	441			441	1.0 min	1.0 hr	7.3 min
Page In Rate	438	309	55	74	52 sec	6.2 hr	13 min
Redshift CPU Utilization	387	4	170	213	4.8 min	6.4 hr	25 min
DBSS - Replication Available	316		316		4.9 min	3.9 hr	32 min
Run Queue Length	292			292	45 sec	4.0 hr	22 min
DB2 - Database Response Time	286			286	4.8 min	21 min	6.4 min
DBSS - Buffer Pages Free	235		115	120	4.8 min	3.1 d	43 min
Azure Virtual Machine Diagnostics Settings	222			222	10 min	3.2 d	1.6 d
DB2 - Database Overall Cache Hit Ratio	212		87	125	15 min	45 min	16 min
DB2 - Member Overall Cache Hit Ratio	212		87	125	15 min	45 min	16 min

**Counts by Severity**

Sev	Name	Count
Warning	Warning	7,464
Critical	Critical	3,014
Fatal	Fatal	1,887

Max Number of Evaluated Alarms: 50000 | Apply

- Disable alarms that you're not going to respond to
  - No need for excess noise
- Turn down alarms that may be too noisy
  - Disable severity, adjust thresholds, add exclusions or scoping query
- Be mindful of the number of historical alarms in the alarms table
  - This can be a major impact on UI performance!
- Install the Alarm Automation Pack
  - <https://www.quest.com/community/blogs/b/performance-monitoring/posts/new---foglight-alarm-automation---community-edition>

# Alarm Automation Pack

---

Quest

Split out the 2 rules for alarm management from the DB Expansion Pack

```
graph LR; A[Split out the 2 rules for alarm management from the DB Expansion Pack] --> B[Clear alarms after 3 days]; B --> C[Delete alarms after 30 days  
• Can configure those via registry variables];
```

Clear alarms after 3 days

Delete alarms after 30 days

- Can configure those via registry variables

# Alarm Automation Pack

**Foglight by Quest** | PreSales Demo Environment | Search | Monday, Oct 7, 2024 02:21:55 PM - Now 1 hour | Reports

## Rules

View, Manage and Investigate all the rules that exist in your environment. Note that there is a link that allows access to the earlier incarnation of this view for certain deprecated operations. Additional table columns that are useful for investigation are hidden by default and can be shown or hidden again with the settings icon at the top right of the table.

Cartridge: **DB\_Expansion\_Pack\_Alarms**

<input type="checkbox"/>	Enable	Disable	Delete	Rule				Other	Alarms			Description
<input type="checkbox"/>				DBEXP_AlarmClearAfterDays				3	0			n/a
<input type="checkbox"/>				DBEXP_AlarmDeleteAfterDays				30	0			n/a



There are self-monitoring rules as part of the Core package



Monitor various conditions with the Foglight server, performance, licenses, agents, etc.



Bigger topic around automation and self-monitoring

# Core Alarms

Foglight by Quest | PreSales Demo Environment | Search

Monday, Oct 7, 2024 02:21:55 PM - Now 1 hour | Reports

## Rules

View, Manage and Investigate all the rules that exist in your environment. Note that there is a link that allows access to the earlier incarnation of this view for certain deprecated operations. Additional table columns that are useful for investigation are hidden by default and can be shown or hidden again with the settings icon at the top right of the table.

Cartridge: Core-MonitoringPolicy

Enable Disable Delete

Rule	Other	Alarms	Description
Agent Health State	unset	0	This rule checks that all agents are in a good health state
Agents and Other Foglight Admin Issues		0	Weekly email on broken agents and other Foglight admin issues.
Catalyst Agent Type License Checker		0	Rule to check whether the cpu count of an agent type has exceeded the licensed a...
Catalyst Available Database Connections Check	unset	0	No database connections available for use by the server.
Catalyst Credential Check	5	0	
Catalyst Database Latency Check	50.0 20.0 10.0	3	High latency between Catalyst database and Catalyst server.
Catalyst Database Maintenance Check		0	Checks that the nightly database maintenance activities are completing within th...
Catalyst Database Query Execution Time Check	1.0EB	0	Throws a WARNING alert when a sample query against the Catalyst database is taki...
Catalyst Database Space Checking	98 90 75	0	Rule to check whether catalyst database will be running out of space.
Catalyst Data Service Discarding Data		0	Rule to check whether any data is being discarded by the Data Service.
Catalyst Free Database Space Checking	200... 500... 200...	0	Rule to check whether the Oracle tablespaces or SQL Server database still have/h...
Catalyst Garbage Collector Check	90 30 10	0	
Catalyst License Monitoring	2 7 30	0	
Catalyst Memory Usage Check	unset	0	Rule to check whether the memory available to the management server is criticall...
Catalyst Number of Alarms Check	100...	1	Checks whether the total number of alarms stored in the database exceeds a prede...
Catalyst Number of Topology History Versions Check	5000	0	Check if the number of topology history versions is bigger than threshold.
Clear Old LogFilter Alarms		0	
Create SupportBundle Rule		0	This rule is to create support bundle periodically based on CreateSupportBundlesS...
Disconnected Agent Manager Clients	unset	1	This rule checks whether all Agent Manager Clients (e.g. FglAM) on a particular ...
FMS HTTPS Certificate Expiration Checking	30	0	
Idle Agents		0	This rule checks periodically whether there are idle agents. An agent is consid...
NoLoginUser Check		0	Check if there is a user named NoLoginUser.
Phone home Service Connection Check	5 2	0	This rule detects a lost connection between Foglight and the mandatory on-line p...

# Notification Channels

The screenshot displays the Foglight by Quest interface. The top navigation bar includes the Foglight logo, the text 'PreSales Demo Environment', and a search bar. A left sidebar contains a navigation menu with items like 'Bookmarks (13)', 'Active Directory', 'Administration', 'Alarm Management', 'AWS Hosts', 'BMC Remedy', 'Capacity Director', 'Cloud Manager', 'Cloud Migration', 'Consolidation Advisor', and 'Configuration'. The main content area is titled 'Notification Channels Management' and features a table with columns for 'Name', 'Alarm Template', and 'Date'. The table lists three channels: 'Demo Amit' (Alarm Template: 2, Date: 28 Aug) and 'Critical Alerts - Production' (Alarm Template: 4, Date: 7 Sep). A modal window titled 'Critical Alerts - Production' is open, showing configuration options for an email channel. The modal includes a 'To' field with the email 'darrenm898@aol.com', a 'Subject' field with a template 'Foglight has generated a \${severity} alarm for \${targetName} : \${ruleName}', and a 'Body prefix' field with the placeholder 'Type introductory text here'. 'Cancel' and 'Save' buttons are at the bottom right of the modal.

**Notification Channels Management**

<input type="checkbox"/> Name	Alarm Template	Date
<input type="checkbox"/> Demo Amit	2	28 Aug
<input type="checkbox"/> Critical Alerts - Production	4	7 Sep

**Critical Alerts - Production**

Email Channel description

Define recipients and email details for **Critical Alerts - Production**

**To** darrenm898@aol.com CC

**Subject** ⓘ Foglight has generated a \${severity} alarm for \${targetName} :  
\${ruleName}

**Body prefix** ⓘ  
Type introductory text here

Cancel Save

# Report Setup

# Report Cleanup

---

- **Get input from user community on the reports that they would like to have**
- **Verify the reports that are scheduled are valid and being used**
- **Verify the schedules for reports**
  - Tracked down a severe performance issue to having multiple reports set on the “every 5 minutes” schedule!
- **Cleanup the saved reports**

# Manage Reports

PreSales Demo Environment

Monday, Oct 7, 2024 02:34:31 PM - Now 1 hour

## Manage Reports

Run a report

Currently showing all reports

### Scheduled Reports

<input type="checkbox"/>	Name	Template	Schedule	Retain	Enabled	Copy	Edit
<input checked="" type="checkbox"/>	VM Host CPU and Mem Metrics Last 1 hr	My Report	Hourly	5	true		
<input checked="" type="checkbox"/>	ESX hosts for cesium in uk	ESX Host Capacity and Performance - Detail	Hourly	5	true		
<input type="checkbox"/>	Training Report	I/O Activity Report	First day of week	13	false		
<input type="checkbox"/>	SQLAG1 Execution Plan Changes - 24 hrs	Change Tracking Report	Daily Database Maintenance	5	true		
<input type="checkbox"/>	test	Health Check Report	Create SupportBundle Schedule	5	true		
<input type="checkbox"/>	Storage Sample report	Disk Space Usage Report	Business hours	5	true		

### Generated Reports

<input type="checkbox"/>	Date	Name	View	Size	Template
<input type="checkbox"/>	10/7/24, 3:00 PM	ESX hosts for cesium in uk	PDF	88 KB	ESX Host Capacity and Performance - Detail
<input type="checkbox"/>	10/7/24, 3:00 PM	VM Host CPU and Mem Metrics Last 1 hr	CSV	613 B	My Report
<input type="checkbox"/>	10/7/24, 2:00 PM	ESX hosts for cesium in uk	PDF	88 KB	ESX Host Capacity and Performance - Detail
<input type="checkbox"/>	10/7/24, 2:00 PM	VM Host CPU and Mem Metrics Last 1 hr	CSV	615 B	My Report
<input type="checkbox"/>	10/7/24, 1:00 PM	ESX hosts for cesium in uk	PDF	88 KB	ESX Host Capacity and Performance - Detail
<input type="checkbox"/>	10/7/24, 1:00 PM	VM Host CPU and Mem Metrics Last 1 hr	CSV	614 B	My Report
<input type="checkbox"/>	10/7/24, 12:00 PM	ESX hosts for cesium in uk	PDF	88 KB	ESX Host Capacity and Performance - Detail
<input type="checkbox"/>	10/7/24, 12:00 PM	VM Host CPU and Mem Metrics Last 1 hr	CSV	614 B	My Report

# Clean up Generated Reports

**Scheduled Reports**

<input type="checkbox"/>	Name	Template	Schedule	Retain	Enabled	Copy	Edit
<input checked="" type="checkbox"/>	VM Host CPU and Mem Metrics Last 1 hr	My Report	Hourly	5	true		
<input checked="" type="checkbox"/>	ESX hosts for cesium in uk	ESX Host Capacity and Performance - Detail	Hourly	5	true		
<input type="checkbox"/>	Training Report	I/O Activity Report	First day of week	13	false		
<input type="checkbox"/>	SQLAG1 Execution Plan Changes - 24 hrs	Change Tracking Report	Daily Database Maintenance	5	true		
<input type="checkbox"/>	test	Health Check Report	Create SupportBundle Schedule	5	true		
<input type="checkbox"/>	Storage Sample report	Disk Space Usage Report	Business hours	5	true		

**Generated Reports**

<input type="checkbox"/>	Date	Name	View	Size	Template
<input type="checkbox"/>	10/7/24, 3:00 PM	ESX hosts for cesium in uk	PDF	88 KB	ESX Host Capacity and Performance - Detail
<input type="checkbox"/>	10/7/24, 3:00 PM	VM Host CPU and Mem Metrics Last 1 hr	CSV	613 B	My Report
<input type="checkbox"/>	10/7/24, 2:00 PM	ESX hosts for cesium in uk	PDF	88 KB	ESX Host Capacity and Performance - Detail
<input type="checkbox"/>	10/7/24, 2:00 PM	VM Host CPU and Mem Metrics Last 1 hr	CSV	615 B	My Report

# Dashboard Access

Verify what custom dashboards are out there

- My Dashboards for current logged in user
- Configuration -> Definitions for other users' dashboards

Start a list of additional audiences for Foglight data – beyond the Database team

- Developers, Operations, Management, Application Owners, etc.

# Dashboard Access

The screenshot displays the Foglight by Quest interface. The top navigation bar includes the Foglight logo, the environment name 'PreSales Demo Environment', a search bar, and user profile icons. The left sidebar contains a navigation menu with items like 'Reports', 'Services', 'Storage & SAN', 'VMware', and 'Web Monitor'. The 'Definitions' menu item is highlighted with a red box. The main content area shows the 'Manage Reports' page with a 'Definitions' section. A red box highlights the 'Other User Definitions' list, which contains the following entries:

- darren  
darren.mallete@quest.com

Below the list is a table of definitions:

Name	Component	Purpose(s)	ID	Last I
DB Workload Status	Fixed Portal Container	Dashboard, Portal	9	5/2/2
Long Running Jobs > 400s	Report Builder	Dashboard, Report	8	3/24/
Max Query Length	Fixed Portal Container	Dashboard, Portal	2	3/13/
My Dashboard	Fixed Portal Container	Dashboard, Portal	7	3/16/
My Dashboard 1	Fixed Portal Container	Dashboard, Portal	10	7/19/
Too Lazy to Type - AUI	Fixed Portal Container	Dashboard, Pagelet, Portal, Portlet	1	3/3/2

**If you still have  
time...**

# Thank You



Looking Forward to Seeing You There

**Register Today!**

Foglight 101 Series: Episode 4  
**Mastering SQL Server Performance**

Janis Griffin

Dec. 18<sup>th</sup> 2024

**Quest**  
Where Next Meets Now.