

Foglight™ *for DB2 LUW 5.7.5.50*

**Monitoring DB2 LUW Database  
Systems:  
Getting Started Guide**



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**Legend**

-  **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
  
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
  
-  **IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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# Installing Foglight *for DB2 LUW*

The Getting Started Guide is a quick guide for the installation and use of Foglight for DB2 LUW, from the planning stage up to the actual monitoring of database instances. This document details the various privileges and permissions required for the successful operation of Foglight for DB2.

While installing and upgrade, Foglight will check for the required permissions, alert if any is missing and will provide a script to grant the missing permissions.

This guide is intended for IBM® DB2® Server database administrators.

## Installation Prerequisites

Before installing Foglight *for DB2 LUW*, ensure that the following conditions are met.

The following permissions must be granted **before** installation or upgrade begins:

- grant select on SYSIBMADM.PRIVILEGES
- grant select on syscat.views
- grant select on syscat.routines
- grant execute on function  
SYSPROC.AUTH\_LIST\_AUTHORITIES\_FOR\_AUTHID(VARCHAR(128),VARCHAR(1) )

## Supported Platforms

Review release notes for information about supported platforms.

- Foglight *for DB2 LUW* — System requirements and supported platforms are identical to those of Foglight Management Server. For details, see *Foglight System Requirements and Platform Support Guide*.
- DB2 LUW monitored instance — Review the *Foglight for DB2 LUW Release Notes* to ensure that your monitored environment versions are supported by this release.

## Required OS User Account Permissions and Programs

Foglight agents require a DB2 LUW user account to monitor the operating system running the monitored DB2 instances. Some OS programs and settings are also required.

- [Windows Systems](#)
- [UNIX Systems](#)

**i** | **NOTE:** SYSMON role and privileges for OS user is not required but is recommended to enable installation to provide more information when discovering DB2 databases.

# Windows Systems

The agent's OS user account requires:

- To monitor Windows Operating System metrics, access to WMI. Ensure that the WMI service is started before creating agents and monitoring the process metrics.

## Permissions for monitoring Windows OS

Monitoring with WMI:

<http://support.quest.com/technical-documents/foglight-agent-manager/5.9.2/foglight-agent-manager-guide/advanced-system-configuration-and-troubleshooting/configuring-windows-management-instrumentation-wmi>

Monitoring with WinRM:

<http://support.quest.com/technical-documents/foglight-agent-manager/5.9.2/foglight-agent-manager-guide/advanced-system-configuration-and-troubleshooting/configuring-windows-remote-management-winrm>

# UNIX Systems

The agent's OS user account requires:

- Access and execute permission to the following programs: df, du, awk, iostat, vmstat, uptime, hostname, netstat, sed, ps, uname
- Silent log-in — in particular, there must be no user-input required and no special login banners displayed
- For connection using SSH, the sshd daemon must be installed and running
- For connection using Telnet, a Telnet daemon must be installed and running

In addition to these general UNIX system requirements, the agent's user account requires additional privileges depending on the operating system, as specified in the following table.

**Table 1. User account requirements by OS**

OS	Additional OS user account requirements
	<ul style="list-style-type: none"><li>• Access to the sysstat package, to permit the agent to get detailed disk I/O information</li></ul>
Linux	<ul style="list-style-type: none"><li>• Access to the /proc filesystem</li><li>• Access to the following programs: /proc/vmstat, /proc/net/dev, free, /proc/cpuinfo, getconf</li></ul>
Solaris	Access to the following programs: /usr/sbin/prtconf, mpstat, pagesize, psrinfo, db2ptree
AIX	<ul style="list-style-type: none"><li>• <code>setuid</code> permissions on vmstat and iostat</li><li>• <code>setgid</code> permissions on PS</li><li>• Access to the following programs: lsattr, lsdev, pagesize, bindprocessor, oslevel</li></ul>

## Using Sudo

The sudo utility allows system administrators to grant specific users (or groups of users) the ability to run certain commands that require administrative privileges as the root, without having to log in as administrator.

If you intend for an agent to run UNIX commands with sudo permissions, check the /etc/sudoers file on the monitored host for the following line and comment it out:

```
Defaults requiretty
```

The programs that can be run using sudo are as follows:

- On all platforms: db2, du, df, grep, hostname, awk, iostat, vmstat, ps, uname, egrep
- On the Linux platform: free, /proc/cpuinfo, getconf

- On the Solaris platform: /usr/sbin/prtconf, xargs, pagesize, psrinfo, db2ptree
- On the AIX platform: lsattr, pagesize, bindprocessor, oslevel

## Required DB2 LUW User Account Privileges

Foglight monitoring agents use DB2 LUW user accounts to access the monitored DB2 instances. *Before adding monitored instances*, ensure that the user accounts have at least the following privilege and permission set:

- **SYSMON** authority (enables monitoring)
- **AUTH\_LIST\_AUTHORITIES\_FOR\_AUTHID** permission (enables the wizard to verify and set permissions)
- **Select** permission on SYSIBMADM.PRIVILEGES, SYSCAT.VIEWS and SYSCAT.ROUTINES

When you add monitored instances, the Monitor DB2 Instance wizard checks that other required permissions exist and, if not, executes a script to grant any missing permissions. For a list of the required permissions granted by this script, see [Permissions](#) on page 10.

## Required DB2 LUW Monitor Switches

To monitor DB2 instances below version 9.7, ensure that the following monitored switches are turned on:

- **UOW**
- **STATEMENT**
- **LOCK**
- **SORT**
- **TABLE**
- **BUFFERPOOL**
- **TIMESTAMP**

To monitor DB2 instances of version 9.7 and above, ensure that the following monitoring configuration parameters are set to base level (at least):

- **MON\_REQ\_METRICS**
- **MON\_ACT\_METRICS**
- **MON\_OBJ\_METRICS**

When you add monitored instances, the Monitor DB2 Instance wizard checks that the monitoring configuration parameters are set correctly. If not, it prompts you to set them.

The switches can be turned on or off manually by updating the database manager configuration. Enabled switches may cause additional overhead on the database manager.

For additional information, see

<http://publib.boulder.ibm.com/infocenter/db2luw/v9r5/index.jsp?topic=/com.ibm.db2.luw.admin.mon.doc/doc/c0005719.html> *System Monitor Switches* and

<http://pic.dhe.ibm.com/infocenter/db2luw/v9r7/index.jsp?topic=%2Fcom.ibm.db2.luw.wn.doc%2Fdoc%2Fcc0054153.html> on IBM's DB2 InfoCenter web site.

Or, review the information in at

<http://publib.boulder.ibm.com/infocenter/db2luw/v9r5/index.jsp?topic=/com.ibm.db2.luw.common.doc/doc/r0008264.htm> *DB2 System Monitor Guide and Reference Redbook*

# Installation Procedures

Foglight for DB2 LUW runs on the Foglight Management Server, which is its operation framework. Therefore, Foglight Management Server must be installed before installing the cartridge. The installation of Foglight for DB2 LUW can be carried out using either of the following scenarios:

- Installing both Foglight for DB2 LUW and Foglight Management Server. For more information, see [Installing Foglight for DB2 LUW using the executable installer](#) on page 7.
- Installing Foglight for DB2 LUW as a cartridge from within an existing Foglight Management Server. For more information, see [Installing the Foglight for DB2 LUW cartridge on a Management Server](#) on page 7.

## Installing Foglight for DB2 LUW using the executable installer

A single executable file allows installing Foglight Management Server together with Foglight for DB2 LUW.

### To run the combined installation file:

- 1 Copy the installation file appropriate to the operating system and the bit level (32-bit or 64-bit) to a temporary directory on the requested host.

**i** **NOTE:** The combined installation file is named using the following convention: Foglight-`<version_number>-DB2-install_<operating system>-<instruction set><bit level><.exe/.bin>`. For example: Foglight-5\_6\_4-DB2-install\_windows-x86\_64.exe or Foglight-5\_6\_4-DB2-install\_solaris-x86\_64.bin.

- 2 If planning to use an external database for the Foglight Management Server Installation, ensure that this database is running.
- 3 Follow the on-screen installation instructions.

## Installing the Foglight for DB2 LUW cartridge on a Management Server

Ensure that the pre-existing Foglight license that is being used allows cartridge installation. If a license that does not allow cartridge installation is used, the installation wizard cannot proceed beyond the Foglight Management Server License screen, which requires specifying the type of license to be installed.

### To install Foglight for DB2 LUW as a cartridge:

- 1 Copy the cartridge's car file (DB\_DB2-VersionNumber.car; for example, DB\_DB2-5\_6\_4.car), which is included in the installation media, to your local computer.
- 2 Log in to the Foglight browser interface.
- 3 In the browser interface, on the navigation panel, click **Dashboards > Administration > Cartridges > Cartridge Inventory**.
- 4 On the Cartridge Inventory dashboard, click **Browse** to find the car file on your local computer.
- 5 Click **Install Cartridge**.

# Configuring Foglight for DB2 LUW

The next step is to configure agents to monitor your DB2 instances.

**i** | **NOTE:** This section assumes that you have a Foglight Agent Manager installed with capacity to host Foglight for DB2 LUW monitoring agents. Agent Managers host agents, manage agent lifecycle (such as start, stop, and restart), manage the agent connection to the Management Server, and provide centralized services to agents. To determine the capacity of an Agent Manager to host agents, see the Foglight for DB2 LUW Hardware Sizing Guide.

## Configuring Monitoring Agents

A wizard guides you through the process of configuring agents. You are prompted to specify connection details for the DB2 host, instances, and databases. As you go, you can validate log in credentials, database and instance connectivity, and host connectivity. You can correct issues by granting database permissions, setting monitoring switches, and configuring parameters.

### **To monitor DB2 instances:**

- 1 In the navigation panel, under **Homes**, click **Databases**.  
On a fresh installation, no instances are listed for DB2 in the Databases dashboard.
- 2 In the instances table, click **Monitor more instances** and select **Add one DB2**.  
The Monitor DB2 Instance wizard opens.
- 3 Follow the online prompts to configure an agent to monitor the DB2 host, instance, and databases. For help with options, click **i**.

## Monitoring DB2 HADR Environments

A DB2 high availability disaster recovery (HADR) environment has two or more databases:

- Primary Database — This is the active database.
- Standby Database — Data from the primary database is propagated to standby databases.

A standby database can be opened in read-only mode and used for reporting. Running the standby database in reporting mode eases the load on the primary (production) database.

**i** | **NOTE:** The HADR read on Standby option is available in DB2 version 9.7.1 or later and is subject to licensing. As of version 10, you can have more than one standby database for each primary database.

We recommend creating agents to monitor each of the instances with databases that participate in the HADR environment. This approach ensures that there is no loss of monitoring in a failover scenario.

For the primary database and for the standby databases that are in read-only mode, you create agents as usual to monitor their DB2 instances. For standby databases that are not in read-only mode, you can define the settings for its DB2 instance, but the wizard is unable to verify database connectivity. To resolve this issue, run the Grant Permissions script for the monitoring user on the standby database.



### **To monitor databases in a DB2 HADR environment:**

- 1 Configure agents to monitor the instances that host the primary database and standby databases. See [Configuring Monitoring Agents](#) on page 8.
- 2 When selecting a standby database that is not in read-only mode, the wizard's validate database connectivity step shows a message indicating the connection could not be verified. Installation can proceed but it is recommended that you click **View grant script** and make sure that the Foglight user has the required permissions on the standby database.

## Monitoring IBM DB2 pureScale Environments

IBM DB2 pureScale® offers high availability and scalability through clustering technology. To monitor instances in a pureScale environment, ensure that the [Permissions for DB2 pureScale Environments](#) are set and then configure monitoring agents as usual. Foglight automatically reports on the pureScale cluster cache facility (CF) component, buffer pools and caches, locks, and request time breakdown.

The following pages and views contain monitoring data for pureScale:

- Databases dashboard — The instance's Host is identified as pureScale.
- Instances home page — See the *Additional Information* and *PureScale CF* panes.
- Instances home page > Memory — See the *Primary CF* and *Backup CF* tabs.
- Database home page — See the *Balance Criterion* and *Memory* panes.
- Database home page > Activity > Locks — See the *PureScale Lock Time* tab.
- Database home page > Memory > Buffer Pools — See the *GBP Hit Ratio* tab.
- Member (History) home page — See the *Request Time Breakdown* pane.
- Member (Real Time) home page — See the *Request Time Breakdown* pane.
- Member (*either*) home page > Activity > Locks — See the *PureScale Lock Time* tab.
- Member (*either*) home page > Memory > Buffer Pools — See the *GBP Hit Ratio* tab.

# Permissions

Foglight monitoring agents use DB2 LUW user accounts to access monitored DB2 instances. The user accounts need to have the privilege and permission listed in [Required DB2 LUW User Account Privileges](#) on page 6. When these conditions are met, the Monitor DB2 Instance wizard checks that the rest of the required permissions exist and, if not, enables you to run the Grant Permissions script to grant missing permissions.

The Grant Permissions script verifies and sets the following general and pureScale-specific permissions.

## General Permissions

An agent needs to be able to select and run from the following SYSPROC table functions and procedures:

- AUTH\_LIST\_AUTHORITIES\_FOR\_AUTHID (for DB2 version 9.5 or later)
- ADMIN\_CMD
- DB\_PARTITIONS
- DB2\_GET\_INSTANCE\_INFO (for DB2 version 9.8 or later)
- ENV\_GET\_PROD\_INFO
- ENV\_GET\_SYS\_INFO
- ENV\_GET\_SYSTEM\_RESOURCES (for DB2 version 9.7.0.1 or later)
- PD\_GET\_DIAG\_HIST (for DB2 version 10 or later)
- MON\_FORMAT\_XML\_TIMES\_BY\_ROW (for DB2 version 9.7.0.1 or later)
- MON\_GET\_PKG\_CACHE\_STMT (for DB2 version 9.7.0.1 or later)
- MON\_GET\_SERVICE\_SUBCLASS\_DETAILS (for DB2 version 9.7.0.1 or later)
- SNAP\_GET\_APPL
- SNAP\_GET\_APPL\_INFO
- SNAP\_GET\_BP
- SNAP\_GET\_BP\_PART
- SNAP\_GET\_DB\_V91, or SNAP\_GET\_DB (for DB2 version 10 or later)
- SNAP\_GET\_DBM
- SNAP\_GET\_DBM\_MEMORY\_POOL
- SNAP\_GET\_DYN\_SQL\_V91, or SNAP\_GET\_DYN\_SQL (for DB2 version 10 or later)
- SNAP\_GET\_FCM\_PART
- SNAP\_GET\_HADR
- SNAP\_GET\_LOCKWAIT
- SNAP\_GET\_STMT
- SNAP\_GET\_STORAGE\_PATHS
- SNAP\_GET\_SWITCHES
- SNAP\_GET\_TAB\_V91, or SNAP\_GET\_TAB (for DB2 version 10 or later)

- SNAP\_GET\_TBSP\_V91, or SNAP\_GET\_TBSP (for DB2 version 10 or later)
- DB2\_GET\_INSTANCE\_INFO (for DB2 version 10 or later)
- MON\_FORMAT\_XML\_TIMES\_BY\_ROW (for DB2 version 9.7.0.1 or later)
- MON\_FORMAT\_LOCK\_NAME (for DB2 version 9.7.0.1 or later)
- MON\_GET\_CONNECTION (for DB2 version 9.7.0.1 or later)
- MON\_GET\_UNIT\_OF\_WORK (for DB2 version 9.7.0.1 or later)
- WLM\_GET\_SERVICE\_CLASS\_AGENTS\_V97 (for DB2 version 9.7.0.1 or later), or WLM\_GET\_SERVICE\_CLASS\_AGENTS (for DB2 version 10 or later), or MON\_GET\_AGENT (for DB2 version 10.5 or later)
- MON\_GET\_WORKLOAD (for DB2 version 9.7.0.1 or later)
- MON\_GET\_BUFFERPOOL (for DB2 version 9.7.0.1 or later)
- MON\_GET\_FCM\_CONNECTION\_LIST (for DB2 version 9.7.0.1 or later)
- MON\_GET\_TABLESPACE (for DB2 version 9.7.0.1 or later)
- MON\_GET\_TABLE (for DB2 version 9.7.0.1 or later)
- ADMIN\_GET\_STORAGE\_PATHS (for DB2 version 10 or later)
- MON\_GET\_TRANSACTION\_LOG (for DB2 version 10 or later)
- MON\_GET\_DATABASE (for DB2 version 10.5 or later)
- MON\_GET\_INSTANCE (for DB2 version 10.5 or later)
- ENV\_GET\_DB2\_SYSTEM\_RESOURCES (for DB2 version 9.7.0.1 or later)
- SNAP\_GET\_CONTAINER\_V91 (for DB2 version below 9.7), or MON\_GET\_CONTAINER (for DB2 version 9.7 or later)

An agent also needs to be able to select from the following SYSIBMADM administrative views:

- DBPATHS (for version 9.7.0.1 or later)
- REG\_VARIABLES
- BP\_HITRATIO
- DBCFG
- ENV\_INST\_INFO
- MON\_LOCKWAITS (for version 9.7.0.1 or later)
- SNAPDBM
- SNAPFCM
- SYSIBMADM.ENV\_PROD\_INFO

## Permissions for DB2 pureScale Environments

In addition to the [General Permissions](#), an agent requires permission to run the following table functions for pureScale environments:

- MON\_GET\_CF
- MON\_GET\_GROUP\_BUFFERPOOL

An agent also needs to be able to select from the following pureScale views:

- ENV\_CF\_SYS\_RESOURCES
- SNAPDB
- SYSIBMADM.DB2\_MEMBER

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