

Foglight™ 5.7.5.8

# System Requirements and Platform Support 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.
  
- i **IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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# Hardware requirements and guidelines

This *System Requirements and Platform Support Guide* contains information on the hardware requirements and supported platforms for this release of Foglight™. Please review the information in this guide before installing Foglight.

This guide is intended for Foglight system administrators. The first topic lists the system requirements for the Management Server and database repository for 32-bit and 64-bit platforms. The next topic lists the platforms supported for the Management Server, database repository, and the Agent Manager, as well as validated web browsers and PDF viewer.

- [About hardware requirements](#)
- [Single-tier hardware requirements](#)
- [Multi-tier hardware requirements](#)
- [Agent Manager resource requirements](#)

This topic lists the hardware requirements (CPU, RAM, and disk storage) for 32-bit and 64-bit installations of the Foglight Management Server and the database repository.

## About hardware requirements

The hardware needed to run Foglight can vary widely depending on several factors, including:

- The number and type of agents that are being used
- The persistence and data-rollup policies
- Agent configuration settings

You should not consider doing a production implementation without conducting a proper scoping and sizing exercise with a qualified Quest Software Inc. representative. You can arrange for a sizing analysis by contacting your Quest Software Inc. Sales Representative. At a minimum, you are required to provide hardware matching the specifications in this topic.

## Server components and tiers

Each Foglight™ Management Server installation consists of two components:

- The Foglight Management Server
- The Foglight Database Repository

Setting up Foglight to run both of its components on the same machine is known as a *single-tier* installation. Using separate machines for each component is known as a *multi-tier* installation. Whichever configuration you choose, each component requires its own specifically-dedicated resources. To help facilitate sizing, the resources required to support each component are listed separately.

# Single-tier hardware requirements

To install Foglight in a single-tier configuration, you must have hardware capable of running both the Management Server (JVM) and database repository together. The requirements are listed below.

**Table 1. Server and Database, 32-bit platforms**

<b>CPU</b>	4-way 2.4 GHz CPUs—one of the following: <ul style="list-style-type: none"><li>• 1 quad core</li><li>• 2 dual core</li><li>• 4 single core</li></ul>
<b>RAM</b>	4 GB in total: <ul style="list-style-type: none"><li>• 2.4 GB for Management Server (1.6 GB for Heap, 0.8 GB for Java™ Virtual Machine)</li><li>• 0.8 GB for database repository</li><li>• 0.8 GB for operating system</li></ul>
<b>Storage</b>	If using built-in embedded database repository: <ul style="list-style-type: none"><li>• 120 GB, 10000 RPM hard disk or better</li></ul> If using external database repository: <ul style="list-style-type: none"><li>• For Management Server: 40 GB, 7200 RPM hard disk or better</li><li>• For Database Repository: 80 GB, 10000 RPM hard disk or better</li></ul>

**i** | **IMPORTANT:** Some 32-bit operating systems, such as Windows® Server 2003 Standard Edition, have a 4 GB memory limit. This will limit the performance of Foglight particularly in single-tier configurations and should be taken into account when determining your hardware needs.

**Table 2. Server and database, 64-bit platforms**

<b>CPU</b>	4-way 2.4 GHz CPUs—one of the following: <ul style="list-style-type: none"><li>• 1 quad core</li><li>• 2 dual core</li><li>• 4 single core</li></ul>
<b>RAM</b>	12 GB in total: <ul style="list-style-type: none"><li>• 6 GB for Management Server (4 GB for Heap, 2 GB for Java Virtual Machine)</li><li>• 4 GB for database repository</li><li>• 2 GB for operating system</li></ul>
<b>Storage</b>	If using built-in embedded database repository: <ul style="list-style-type: none"><li>• 120 GB, 10000 RPM hard disk or better</li></ul> If using external database repository: <ul style="list-style-type: none"><li>• For Management Server: 40 GB, 7200 RPM hard disk or better</li><li>• For Database Repository: 80 GB, 10000 RPM hard disk or better</li></ul>

# Multi-tier hardware requirements

To install Foglight™ in a multi-tier configuration, you must have separate hardware for each of the Management Server (JVM) and database repository. The requirements are listed below.

**Table 3. Management Server (32-bit and 64-bit platforms)**

	32-bit	64-bit
<b>CPU</b>	2-way 2.4 GHz CPUs—one of the following: <ul style="list-style-type: none"> <li>• 1 dual core</li> <li>• 2 single core</li> </ul>	
<b>RAM</b>	4 GB in total: <ul style="list-style-type: none"> <li>• 3 GB for Management Server (2 GB for Heap, 1 GB for Java™ Virtual Machine)</li> <li>• 1 GB for operating system</li> </ul>	8 GB in total: <ul style="list-style-type: none"> <li>• 6 GB for Management Server (4 GB for Heap, 2 GB for Java Virtual Machine)</li> <li>• 2 GB for operating system</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• 40 GB, 7200 RPM hard disk or better</li> </ul>	

**Table 4. Database Repository (32-bit and 64-bit Platforms)**

	32-bit	64-bit
<b>CPU</b>	2-way 2.4 GHz CPUs—one of the following: <ul style="list-style-type: none"> <li>• 1 dual core</li> <li>• 2 single core</li> </ul>	
<b>RAM</b>	3 GB in total: <ul style="list-style-type: none"> <li>• 2 GB for database repository</li> <li>• 1 GB for operating system</li> </ul>	6 GB in total: <ul style="list-style-type: none"> <li>• 4 GB for database repository</li> <li>• 2 GB for operating system</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• 80 GB, 10000 RPM hard disk or better</li> </ul>	

# Agent Manager resource requirements

Foglight™ Agent Manager uses minimal system resources, whether running on a monitored host or monitoring remotely. The amount used depends on a variety of factors including the number of agents running on the monitored host, the amount of data being collected, and whether the Management Server is running.

**! CAUTION:** This section is intended to provide general information that is applicable to most Foglight installations. You should not consider doing a production implementation without conducting a proper scoping and sizing exercise with a qualified Quest representative.

The following table lists the system resources typically used by the Agent Manager while it is running.

**Table 5. Agent Manager: Typical resource requirements**

<b>CPU Usage</b>	<ul style="list-style-type: none"><li>• Varies greatly by cartridge/agent, the amount of data being collected, and the complexity of the technology being monitored</li><li>• Average is 4.8% CPU utilization</li></ul>
<b>RAM</b>	<ul style="list-style-type: none"><li>• Varies greatly by cartridge/agent, the complexity of the technology being monitored, and Agent Manager configuration</li><li>• Agent Manager base memory requirement is 256 MB. Additional memory may be required depending on the deployed agent types and instances.</li></ul> <p><b>Example agent package requirements</b></p> <p>Foglight for Infrastructure — 12 MB on deployment and 4 MB for each agent instance. Foglight for VMware — 2560 MB on deployment.</p>
<b>Storage</b>	May use up to 1 GB of hard disk for installation, operation, and temporary data storage



# Supported platforms

This chapter lists the platforms supported for the Foglight™ Management Server and database repository, for the Foglight Agent Manager, and for the Operating System cartridge. It also lists the requirements for other software used with Foglight.

- [Supported platforms for the Management Server](#)
- [Supported external databases](#)
- [Supported platforms for the Agent Manager](#)
- [Supported platforms for the Cartridge for Operating Systems](#)
- [Validated web browsers](#)
- [Supported PDF report viewer](#)

## Supported platforms for the Management Server

The Foglight™ Management Server is supported on the platforms listed in the following table. These platforms have passed quality assurance testing with Foglight.

- 32-bit installations are only recommended for monitoring small or infrastructure-only environments. If you are planning to monitor large, APM, ERP, Java™, database, or virtualized environments, use a 64-bit platform.
- Installing 32-bit versions on a 64-bit operating system is not supported. A 64-bit installation binary should be installed on a 64-bit operating system.
- Foglight is a multi-threaded software application running in a Java Virtual Machine (JVM). It runs on, and takes advantage of, MultiThreading and HyperThreading (also known as Simultaneous MultiThreading) enabled environments.
- Unless you are running the installer in console mode, verify that you have an X Window System™ environment prior to installing Foglight on UNIX® platforms.

Table 1. Management Server platforms

Operating System	Version	OS Architecture	32-bit	64-bit
CentOS Linux®	5.x	x86-64		✓ <sup>a</sup>
	6.x			
	7.x			

Table 1. Management Server platforms

Operating System	Version	OS Architecture	32-bit	64-bit	
Microsoft® Windows®	Server 2008	IA-32	✓		
		x86-64	✓	✓	
	Server 2008 R2 Server 2012 Server 2012 R2 Server 2012 R2 Core	7 (Professional or above)	x86-64		✓
			IA-32	✓	
			x86-64	✓	✓
			IA-32		
	10	x86-64	✓	✓	
	Server 2016	x86-64	✓	✓	
	Novell® SUSE Linux® Enterprise Server	10 <sup>b</sup>	IA-32	✓	
		11	x86-64	✓	✓ <sup>a</sup>
12					
Oracle® Linux®	5.x	IA-32	✓		
	6.x	x86-64	✓	✓ <sup>a</sup>	
	7.x				
Oracle Solaris®	10 (including Zones) <sup>c</sup>	x86-64		✓	
		SPARC		✓	
	11 (including Zones) <sup>c</sup>	x86-64		✓	
		SPARC		✓	
See <a href="#">Final platform support notice</a> on page 11 for future support.					
Red Hat® Enterprise Linux®	AP/Server 5.x	IA-32	✓		
	6.x	x86-64	✓	✓ <sup>a</sup>	
	7.x				
Ubuntu® Linux®	12.04.x LTS	x86-64		✓	
	14.04.x LTS				

a. On 64-bit RPM-based Linux platforms, the 32-bit version of *libgcc\*.rpm* must be installed for the installer and Management Server to run. On 64-bit Ubuntu, the *ia32-libs* package must be installed.

b. Embedded database is not supported on this version.

c. See the [Support policy on virtualization](#) on our support portal for important information on using Foglight in virtual environments.

## Operating system patch requirements for the JRE

Foglight™ requires a Java Runtime Environment (JRE) to run, both for the Management Server and for the Agent Manager that runs on monitored hosts.

Foglight installs the JREs it needs, but you must ensure that any machine that will run a component of Foglight has its operating system patched to the minimum patch level required to support this JRE. This release of Foglight uses the following Java versions:

- Management Server: Java 8
- Agent Manager: Java 8

Check with your operating system vendor for the latest operating system patches required to run this version of Java on your system. Foglight cannot check this during installation.

## Final platform support notice

The following operating system is not supported in this release:

- Microsoft® Windows Server® 2003

Support for the following operating system will be discontinued in an upcoming Foglight™ release. This platform is supported in this release. We hope this notice of planned support changes helps you plan your upgrades.

- Novell® SUSE Linux Enterprise Server 10

## Supported external databases

Foglight™ Management Server requires a database repository. You have the option of using either the embedded PostgreSQL® database included with Foglight™, or an external PostgreSQL, Oracle®, SQL Server®, or MySQL™ database. The embedded database is included with the Management Server and it follows the same lifecycle, it stops and starts with the server. If you use an external database, you are responsible for its procurement, installation, and management. Using an external database may improve the Management Server performance.

Table 2. Supported external databases

Database	Supported Versions
PostgreSQL®	<ul style="list-style-type: none"><li>• 9.4.x and 9.5.x</li></ul>
MySQL™	<ul style="list-style-type: none"><li>• 5.1.45 or later on 5.1.x branch</li></ul>
	<ul style="list-style-type: none"><li>• 5.5.20 or later on 5.5.x branch</li></ul>
	<ul style="list-style-type: none"><li>• 5.6.18 or later on 5.6.x branch</li></ul>
	<ul style="list-style-type: none"><li>• 5.7.9 or later on 5.7.x branch</li></ul>

Table 2. Supported external databases

Database	Supported Versions
Oracle®	• 9i R2 (9.2.x branch)
	• 10g R2 (10.2.x branch)
	• 11g R1 (11.1.x branch)
	• 11g R2 (11.2.x branch)
	• 12C Enterprise Release 1 (version 12.1.0.1.0)
SQL Server®	• SQL Server 2005 (version 9.00.1399.06 or later)
	• SQL Server 2008 (version 10.0.1600 or later)
	• SQL Server 2008 R2
	• SQL Server 2012
	• SQL Server 2014
	• SQL Server 2016

**i** | **NOTE:** For databases that have different editions, only the editions intended or licensed for production use are supported for use with Foglight. “Express” or “Lite” editions may be used to test Foglight, but should not be used in a production deployment.

You can run your external database on any operating system supported by your database vendor, but Quest Software Inc. only provides support for external database issues that can be reproduced on one of the operating systems (32- or 64-bit) listed in the following table.

Table 3. Supported operating system versions

Operating System	Version
HP-UX	11i v3
IBM® AIX®	5.3
Microsoft® Windows®	Server 2008 R2
	Server 2012
	Server 2012 R2
	Server 2016
	10
Oracle Solaris®	10 (Update 8)
	11
Red Hat® Enterprise Linux®	6.x
	7.x

## Supported platforms for the Agent Manager

The following table lists the platforms that are supported for the Foglight™ Agent Manager (FglAM).

**Table 4. Supported Agent Manager platforms**

Operating System	Version	OS Architecture	Valid Installer(s)
CentOS Linux <sup>®</sup>	5.x	IA-32	<i>fglam-&lt;ver&gt;-linux-ia32.bin</i>
	6.x	x86-64	<i>fglam-&lt;ver&gt;-linux-ia32.bin<sup>a</sup></i>
	7.x		<i>fglam-&lt;ver&gt;-linux-x86_64.bin</i>
HP-UX	11i v2	Itanium	<i>fglam-&lt;ver&gt;-hpux-ia64.bin</i>
	11i v3		
IBM <sup>®</sup> AIX <sup>®b</sup>	6.1	POWER	<i>fglam-&lt;ver&gt;-aix-powerpc.bin<sup>1, c</sup></i>
	7.1		
Microsoft <sup>®</sup> Windows <sup>®</sup>	Vista (SP1 or above)	IA-32	<i>fglam-&lt;ver&gt;-windows-ia32.exe</i>
	7 (Professional or above)	x86-64	<i>fglam-&lt;ver&gt;-windows-ia32.exe<sup>1</sup></i>
	8 (Pro, Enterprise)		<i>fglam-&lt;ver&gt;-windows-x86_64.exe</i>
	8.1		
	10		
	Server 2008	IA-32	<i>fglam-&lt;ver&gt;-windows-ia32.exe</i>
		x86-64	<i>fglam-&lt;ver&gt;-windows-ia32.exe<sup>1</sup></i>
			<i>fglam-&lt;ver&gt;-windows-x86_64.exe</i>
	Server 2008 R2	x86-64	<i>fglam-&lt;ver&gt;-windows-x86_64.exe</i>
	Server 2012		
Server 2012 R2			
Server 2012 R2 Core			
Server 2016			
Novell <sup>®</sup> SUSE Linux <sup>®</sup> Enterprise Server	10	IA-32	<i>fglam-&lt;ver&gt;-linux-ia32.bin</i>
	11	x86-64	<i>fglam-&lt;ver&gt;-linux-ia32.bin<sup>1</sup></i>
	12		<i>fglam-&lt;ver&gt;-linux-x86_64.bin</i>
	12 SP1 and SP2		
Oracle <sup>®</sup> Linux <sup>®</sup>	4.x	IA-32	<i>fglam-&lt;ver&gt;-linux-ia32.bin</i>
	5.x	x86-64	<i>fglam-&lt;ver&gt;-linux-ia32.bin<sup>1</sup></i>
	6.x		<i>fglam-&lt;ver&gt;-linux-x86_64.bin</i>
	7.x		
Oracle Solaris <sup>®</sup>	10 (including Zones) <sup>d</sup>	x86-64	<i>fglam-&lt;ver&gt;-solaris-x86_64.bin</i>
		SPARC	<i>fglam-&lt;ver&gt;-solaris-sparc.bin<sup>1, 2</sup></i>
	11 (including Zones) <sup>3</sup>	x86-64	<i>fglam-&lt;ver&gt;-solaris-x86_64.bin</i>
		SPARC	<i>fglam-&lt;ver&gt;-solaris-sparc.bin<sup>e</sup></i>
Red Hat <sup>®</sup> Enterprise Linux <sup>®</sup>	AP/Server 5.x	IA-32	<i>fglam-&lt;ver&gt;-linux-ia32.bin</i>
	6.x	x86-64	<i>fglam-&lt;ver&gt;-linux-ia32.bin<sup>1</sup></i>
	7.x		<i>fglam-&lt;ver&gt;-linux-x86_64.bin</i>
Ubuntu <sup>®</sup> Linux	12.04.x LTS	x86-64	<i>fglam-&lt;ver&gt;-linux-x86_64.bin</i>
	14.04.x LTS		

a. Installer includes a 32-bit JRE, so the maximum heap size is limited to a 32-bit address space, even on a 64-bit operating system.

b. Before installing or upgrading the Agent Manager, ensure that the latest OS service packs are installed.

c. This platform will switch to a 64-bit JRE when support for 32-bit operating systems is removed (see [Final platform support notice](#) on page 14).

d. See the [Support Policy on Virtualization](#) on our support portal for important information on using Foglight in virtual environments on these platforms.

e. Installer includes a 32-bit JRE. While Solaris 11 only supports 64-bit SPARC hardware, the maximum heap size is still limited to a 32-bit address space. This platform will switch to a 64-bit JRE in a future release.

## Operating system patch requirements for the JRE

Foglight™ requires a Java Runtime Environment (JRE) to run, both for the Management Server and for the Agent Manager that runs on monitored hosts.

Foglight installs the JREs it needs, but you must ensure that any machine that will run a component of Foglight has its operating system patched to the minimum patch level required to support this JRE. This release of Foglight uses the following Java versions:

Management Server: Java 8

Agent Manager: Java 8

Check with your operating system vendor for the latest operating system patches required to run this version of Java on your system. Foglight cannot check this during installation.

## Final platform support notice

The following operating system is not supported in this release:

- Microsoft® Windows Server® 2003

Support for the following operating systems will be discontinued in an upcoming Foglight™ release. These platforms are supported in this release. We hope this notice of planned support changes helps you plan your upgrades.

- Oracle® Linux® 4.x
- Novell® SUSE Linux Enterprise Server 10

## Supported platforms for the Cartridge for Operating Systems

**i** | **NOTE:** To deploy this cartridge on newer platforms through the browser interface, you may need to enable the **Show Packages for All Platforms** check box on the Agent Hosts or Agent Status dashboards, to show a package that is compatible with the platform.

The following table lists the platforms that are supported for the Cartridge for Operating Systems.

Table 5. Platforms supported by the Cartridge for Operating Systems

Operating System	Version	OS Architecture	32-bit	64-bit
CentOS Linux®	5.x	IA-32	✓	
		x86-64	✓	✓

**Table 5. Platforms supported by the Cartridge for Operating Systems**

Operating System	Version	OS Architecture	32-bit	64-bit
HP-UX	11i v1	PA-RISC	✓	✓
	11i v2	PA-RISC	✓	✓
	11i v3	Itanium		✓
IBM® AIX®	5.3	POWER	✓	✓
	6.1			
	7.1			
Microsoft® Windows®	Server 2003	IA-32	✓	
		x86-64	✓	✓
		Itanium		
	XP (SP3)	IA-32	✓	
	Vista (SP1 or above)	x86-64	✓	✓
	Server 2008			
	7 (Professional or above)			
Server 2008 R2	x86-64		✓	
Novell® SUSE Linux® Enterprise Server	9	IA-32	✓	
	10	x86-64	✓	✓
	11			
Oracle® Linux®	4.x	IA-32	✓	
	5.x	x86-64	✓	✓
	6.x			
Oracle Solaris®	8	SPARC	✓	✓
	9			
	10 (including Zones) <sup>a</sup>	x86-64		✓
		SPARC	✓	✓
Red Hat® Enterprise Linux®	AS/ES 4.x	IA-32	✓	
	AP/Server 5.x	x86-64	✓	✓
	6.x <sup>b</sup>			

a. See the [Software Support Guide](#) on our support portal for important information on using Foglight™ in virtual environments.

b. On 64-bit installations of this platform, the 32-bit compatibility libraries must be manually installed in order for the Foglight agents to run. These libraries are provided with the OS distribution.

## Validated web browsers

The Foglight™ user interface is designed to work with standards-compliant Web browsers. The following table lists the Web browsers that is tested and validated for use with this release of Foglight.

**Table 6. Validated web browsers**

<b>Browser Type</b>	<b>Version / Patch Level Validated</b>
Internet Explorer® 11, Microsoft® Edge (desktop and touch environments)	Microsoft Windows® 7, 8.1, and 10. Latest patch update available at March 2016.
Firefox®	45.0.1, 45.0.1 esr
Safari (Mac OS X Mavericks, Yosemite, and El Capitan on iOS® 9.3)	9.1
Chrome™	49.0.2623.87

## End of support notice

Support for Microsoft® Internet Explorer® 8, 9, and 10 is discontinued as of this Foglight™ release.

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

## What about other browsers?

The Foglight™ user interface also works on recent releases of other standards-compliant Web browsers. This cannot be guaranteed because they have not been tested. If you are using a different browser and encounter a rendering or navigation problem, we recommend trying one of the validated browsers to see if that resolves your issue. Quest will only provide support for browser issues that can be reproduced on a validated browser.

The validation testing criteria used by Quest's Quality Assurance team is as follows:

- Browsers are tested on applicable operating systems including Windows® Server 2008, Windows Server 2012, Windows Vista, Windows 7, Windows 8, Windows 10, Red Hat® Desktop Linux®, Novell® SuSE Linux Enterprise Desktop, and Mac OS® X.
- The latest browser version or patch release available at the time of this Foglight release was used for testing. Newer browser versions will be validated as part of our next release.

## Supported PDF report viewer

To view PDF reports in Foglight, Adobe Acrobat Reader version 7.0.9 (or later) is preferred.



## We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation™.

## Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece—you—to the community, to the new Quest.

## Contacting Quest

For sales or other inquiries, visit <https://www.quest.com/company/contact-us.aspx> or call +1-949-754-8000.

## 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.