

Foglight® for Java EE Technologies 5.9.13
Supported Platforms and Servers 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.

Foglight for Java EE Technologies Supported Platforms and Servers Guide
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System Requirements and Guidelines

Foglight for Java EE Technologies gives you the tools you need to monitor the availability and performance of your Java™ Enterprise Edition (Java EE) applications and application servers. This *Supported Platforms and Servers Guide* document contains a list of supported platforms for Foglight for Java EE Technologies at the time of publication. In some isolated cases, you may be able to create unique configurations that the vendor does not support by using the tables in this document. In these cases, we must comply with vendor support and do not support these configurations.

For additional information about this software release, including known issues, consult the [Foglight for Java EE Technologies Release Notes](#).

These topics outline the minimum maintenance patches required to run Java applications. In addition, the Foglight for Java EE Technologies Management Server version requirements are provided.

Review the [Operating system patch requirements](#), the [Foglight Management Server and Agent Manager version requirements](#), and the [Nexus requirements](#) before you install this product.

Operating system patch requirements

To ensure the stable performance of Foglight for Java EE Technologies and its agents, your operating system must have the minimum maintenance patches required to run Java applications. Patch requirements are available at the following URLs:

- **AIX®:** <http://www.ibm.com/developerworks/java/jdk/aix/service.html>
AIX 5L 5.3 require patches to run JDK 1.4.2, 1.5, and 1.6 VMs; see the URL above for the latest patch requirements.
- **HP-UX:** <http://www.hp.com/go/patchmgmt-docs>
- **Linux®:** Check for known problems in the release notes and check that the packages they mention are up to date.
- **Oracle Solaris®:** Log on to the My Oracle Support site (<http://support.oracle.com>) and open the **Patch & Update** tab.

Foglight Management Server and Agent Manager version requirements

The following table outlines the required versions of various Foglight components, to ensure compatibility of Java agents, Nexus, and Foglight.

Table 1. Required versions of the Management Server and Agent Manager.

Component	Foglight Management Server Version	Foglight Agent Manager Version
Foglight for Java EE Technologies 5.9.x	5.6.7 or later	
Nexus	5.6.7 or later	5.6.7.2 or later (5.6.7.3 recommended)
Java Integration Agent	5.6.7 or later	5.6.2.2 or later

Nexus requirements

The Nexus runs on Foglight Agent Manager version 5.6.7.2 or later.

i | **IMPORTANT:** The Agent Manager heap requires at least 1Gb of memory for the Nexus. Depending on the monitored application, this heap requirement may increase to as much as 4Gb.

The Nexus requires Oracle® (Sun) Java SE JDK 1.6, 1.7. or 1.8

The Nexus is supported on the following OS platforms:

Table 2. Nexus system requirements

Version	Architecture
Oracle Solaris® 8, 9	SPARC®
Oracle Solaris 10, 11	SPARC, x86-64
Windows® XP SP1+, Server 2003, Server 2008	ia32, x86-64
Windows Server® 2008 R2, Server 2012, Server 2012 R2, Server 2012 R2 Core	x86-64
Red Hat® AS/ES/WS 4, 5, 6, 7	ia32, x86-64
SUSE® 9, 10, 11,12	ia32, x86-64

Final platform support notice

The following operating system (OS) platforms are not supported:

- Solaris 8 and 9
- All 32-bit versions of Oracle Solaris SPARC
- Windows XP SP1+
- Red Hat AS/ES/WS 4.x
- SUSE 9
- IBM AIX 5.3

Supported Application Servers

These topics outline the supported application server, operating system, and JVM configurations.

- [IBM WebSphere](#)
- [IBM WebSphere Liberty](#)
- [Oracle WebLogic](#)
- [Oracle AS](#)
- [Wildfly](#)
- [JBoss](#)
- [Apache Tomcat](#)
- [X-Agent](#)

Final application server support notice

The following JDKs and application servers are not supported:

- IBM JDK 8.0.5.7 and later
 - **i | NOTE:** IBM JDK version 8.0.5.6 is the last version that is supported by Foglight for Java EE Technologies.
- JDK 1.4.x, 1.5.x
- HP JDK
- JRockit JDK
- JBoss AS
- JBoss EAP 4.3.0, 5.2.x
- JBoss WildFly 8, 9
 - **i | NOTE:** If you want to monitor applications running on WildFly 8/9 and collect the application trace, upgrade your WildFly version to WildFly 10.
- Tomcat 5.x, 6.x
- Oracle AS
- WebLogic 8.x, 9.x, 10.0, 10.3
- WebSphere 6.x, 7.x

IBM WebSphere

The following IBM® WebSphere® Application Server configurations are supported:

i | **NOTE:** Foglight for Java EE Technologies version 5.9.11 is the last release to support HP JDK, WebSphere 6.x, WebSphere 7.x.

Table 3. IBM WebSphere Application Servers

Server	Operating System	Architecture	JVM
WebSphere 9.0.0.[0-6]	HP-UX® 11i v2, v3	ia64	IBM 1.8
	IBM AIX® 6.1, 7.1	PowerPC®	
	Novell SUSE® Linux Enterprise Server 10, 11	ia32, x86-64	
	Red Hat® Enterprise Linux®AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris® 10	SPARC®, x86-64	
	Windows Server® 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
	Windows Server 2012	x86-64	
WebSphere 8.5.5.[0-11]	HP-UX® 11i v2, v3	ia64	IBM 1.6, 1.7, 1.8 (only for WebSphere 8.5.5.[9-11])
	IBM AIX® 6.1, 7.1	PowerPC®	
	Novell SUSE® Linux Enterprise Server 10, 11	ia32, x86-64	
	Red Hat® Enterprise Linux®AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris® 10	SPARC®, x86-64	
	Windows Server® 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
	Windows Server 2012	x86-64	
WebSphere 8.5	HP-UX 11i v2, v3	ia64	IBM 1.6
	IBM AIX 6.1, 7.1	PowerPC	
	Novell SUSE Linux Enterprise Server 10, 11	ia32, x86-64	
	Red Hat Enterprise Linux AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris 10	SPARC, x86-64	
	Windows® XP SP1+	ia32, x86-64	
	Windows Server 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
Windows Server 2012	x86-64		
WebSphere 8.0	HP-UX 11i v2, v3	ia64	HP 1.6, IBM 1.6
	IBM AIX 6.1, 7.1	PowerPC	
	Novell SUSE Linux Enterprise Server 10, 11	ia32, x86-64	
	Red Hat Enterprise Linux AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris 10	SPARC	
	Windows XP SP3, Server 2003, Server 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	

IBM WebSphere Liberty

The following IBM® WebSphere® Liberty configurations are supported:

Table 4. IBM WebSphere Liberty

Server	Operating System	Architecture	JVM
WebSphere Liberty 17.0.0.[1-4]	HP-UX 11i v2, v3	ia64	IBM 7.0.4 (7.0.4.1 above), 7.1.8
	IBM AIX® 6.1, 7.1, 7.2	PowerPC	IBM 8.0 (8.0.3.0 - 8.0.5.6)
	Novell SUSE® Linux Enterprise Server 10, 11, 12	ia32, x86-64	Oracle 7.0 (7.0.15 above or 7.0 update 15 above), 8.0.25 and above
	Red Hat Enterprise Linux (RHEL) Server 6	ia32, x86-64	OpenJDK 1.7, 1.8
	Oracle Solaris® 10, 11	SPARC®, x86-64	
	Ubuntu 12.04 LTS, 14.04 LTS	ia32, x86-64	
	Windows Server 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
	Windows Server 2012, 2012 R2	x86-64	
WebSphere Liberty 16.0.0.[2-4]	HP-UX 11i v2, v3	ia64	IBM 6.0 (6.0.5.1 above), 7.0.4 (7.0.4.1 above), 7.1.8
	IBM AIX® 6.1, 7.1, 7.2	PowerPC	Sun 1.6/6 (6.0 update 41 above)
	Novell SUSE® Linux Enterprise Server 10, 11, 12	ia32, x86-64	Oracle 7.0 (7.0.15 above or 7.0 update 15 above), 8.0.25 and above
	Red Hat Enterprise Linux (RHEL) Server 6	ia32, x86-64	OpenJDK 1.7, 1.8
	Oracle Solaris® 10, 11	SPARC®, x86-64	
	Ubuntu 12.04 LTS, 14.04 LTS	ia32, x86-64	
	Windows Server 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
	Windows Server 2012, 2012 R2	x86-64	
WebSphere Liberty 8.5.5	HP-UX 11i v2, v3	ia64	IBM 6.0 (6.0.5.1 above), 7.0.4 (7.0.4.1 above), 7.1.8
	IBM AIX® 6.1, 7.1, 7.2	PowerPC	Sun 1.6/6 (6.0 update 41 above)
	Novell SUSE® Linux Enterprise Server 10, 11, 12	ia32, x86-64	Oracle 7.0 (7.0.15 above or 7.0 update 15 above), 8.0.25 and above
	Red Hat Enterprise Linux (RHEL) Server 6	ia32, x86-64	
	Oracle Solaris® 10, 11	SPARC®, x86-64	
	Ubuntu 12.04 LTS, 14.04 LTS, 16.04 LTS	ia32, x86-64	
	Windows Server 2008	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
	Windows Server 2012, 2012 R2	x86-64	

Oracle WebLogic

The following Oracle® WebLogic® Server and Express configurations are supported:

i | **NOTE:** Foglight for Java EE Technologies version 5.9.11 is the last release to support JDK 1.4.x, 1.5.x, HP JDK, JRockit, WebLogic Server & Express 8.x, 9.x, 10.0, 10.3.

Table 5. Oracle WebLogic Server and Express

Server	Operating System	Architecture	JVM
WebLogic Server 12cR2 (12.2.1, 12.2.1.[1-3])	IBM® AIX® 7.1, 7.2	PowerPC®	IBM 1.8
	Novell® SUSE® Linux Enterprise Server 11, 12	x86-64	Oracle Java SE 1.8
	Oracle Enterprise Linux 6.x, 7.x	x86-64	
	Oracle Solaris® 11	SPARC®, x86-64	
	Red Hat® Enterprise Linux® AS/ES/WS 6	x86-64	
	Windows Server 2012, Server 2012 R2 ¹	x86-64	
WebLogic Server 12c (12.1.[1-3])	IBM AIX 6.1, 7.1	PowerPC	IBM 1.6, 1.7, 1.8
	Novell SUSE Linux Enterprise Server 10, 11	ia32, x86-64	JRockit 1.6
	Oracle Enterprise Linux 5.x, 6.x	ia32, x86-64	Oracle Java SE 1.6, 1.7, 1.8
	Oracle Solaris® 10	SPARC, x86-64	
	Red Hat® Enterprise Linux® AS/ES/WS 5, 6	ia32, x86-64	
	Windows® XP SP1+	ia32, x86-64	
	Windows Server 2008 R2	x86-64	
	Windows Server 2012, Server 2012 R2 ¹	x86-64	

1. Only support WebLogic 12.1.2 or later.

Oracle AS

Foglight for Java EE Technologies version 5.9.11 is the last release to Oracle AS.

Wildfly

The following Wildfly configurations are supported:

i | **NOTE:** Foglight for Java EE Technologies version 5.9.10 only supports the server metrics monitoring on Wildfly 8 and Wildfly 9. Foglight for Java EE Technologies version 5.9.11 is the last release to support Wildfly 8 and Wildfly 9.

Table 7. Wildfly

Server	Operating System	Architecture	JVM
Wildfly 10.[0-1]	Red Hat® Enterprise Linux® 7.2	x86-64	IBM JDK 1.8
	Red Hat® Enterprise Linux® 6.7	x86, x86_64	JDK 1.8
	Oracle Solaris® 10, 11	SPARC®, x86-64	OpenJDK 1.8
	Windows Server 2008 R2, Windows Server 2012 R2	x86-64	

JBoss

The following JBoss® Application Server configurations are supported:

JBoss Enterprise Application Platforms (EAP)

i | **NOTE:** Foglight for Java EE Technologies version 5.9.11 or later does not support EAP 4.3.0 and 5.2.x.

Table 8. JBoss Enterprise Application Platforms (EAP)

Server	Operating System	Architecture	JVM
JBoss EAP 7.0.0	Red Hat® Enterprise Linux® 7.2	x86-64	JDK 1.8
	Red Hat® Enterprise Linux® 6.7	x86, x86_64	IBM® 1.8
	Oracle Solaris® 10, 11	SPARC®, x86-64	OpenJDK 1.8
	Windows Server 2008 R2, Windows Server 2012 R2	x86-64	
JBoss EAP 6.4.[0-5, 15, 16] ¹	Red Hat® Enterprise Linux® AS/ES/WS 5, 6, 7	ia32, x86-64	JDK 1.6, 1.7, 1.8
	Oracle Solaris® 10, 11	SPARC®, x86-64	IBM® 1.6, 1.7, 1.8
	Windows Server® 2008	ia32, x86-64	OpenJDK 1.6, 1.7, 1.8 ²
	Windows Server 2008 R2, Windows Server 2012 R2	x86-64	
JBoss EAP 6.3.[0-3]	Red Hat Enterprise Linux AS/ES/WS 5, 6, 7	ia32, x86-64	JDK 1.6, 1.7, 1.8 ³
	Oracle Solaris 10, 11	SPARC, x86-64	IBM ⁴ 1.6, 1.7, 1.8
	Windows Server 2008	ia32, x86-64	OpenJDK 1.6, 1.7
	Windows Server 2008 R2, Windows Server 2012 R2	x86-64	
JBoss EAP 6.2	Red Hat Enterprise Linux AS/ES/WS 5, 6, 7	ia32, x86-64	JDK 1.6, 1.7
	Oracle Solaris10	SPARC, x86-64	IBM 1.6, 1.7
	Windows Server 2008	ia32, x86-64	OpenJDK 1.6, 1.7
	Windows Server 2008 R2	x86-64	
JBoss EAP 6.1.[0-1], 6.0.[0-1]	Red Hat Enterprise Linux AS/ES/WS 5, 6,7	ia32, x86-64	IBM 1.6, 1.7
	Oracle Solaris 10	SPARC, x86-64	OpenJDK 1.6, 1.7
	Windows Server 2008	ia32, x86-64	
	Windows Server 2008 R2, Windows Server 2012 R2	x86-64	Oracle Java SE 1.6, 1.7

1. The JBoss EAP 6.4 patch versions listed here are verified by Quest. The remaining 6.4 patch versions should be supported also, while Quest does not verify those versions.
2. Open JDK 1.8 supported on JBoss EAP version 6.4.4 only.
3. JDK 1.8 supported on JBoss EAP version 6.3.3 and later.
4. IBM JDK supported on JBoss EAP version 6.3.3 and later.

JBoss Application Servers (AS)

Foglight for Java EE Technologies version 5.9.11 is the last release to support JRockit JDK and JBoss AS.

Apache Tomcat

The following Apache Tomcat Server configurations are supported:

- NOTE:** Foglight for Java EE Technologies version 5.9.11 is the last release to support JDK 1.5.x, JRockit JDK, and Tomcat 5.x, 6.x.

Table 9. Tomcat Servers

Server	Operating System	Architecture	JVM
Tomcat 9.0.[1-6] ¹	IBM® AIX® 5.3 ² , 6.1, 7.1	PowerPC®	IBM 1.8
	Novell® SUSE® Linux Enterprise Server 10, 11	ia32, x86-64	OpenJDK 1.8
	Oracle® Enterprise Linux 5.x, 6.x	ia32, x86-64	Oracle Java SE 1.8
	Red Hat® Enterprise Linux® AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris®10, 11	SPARC, x86-64	
	Windows® Server 2003, Server 2008	ia32, x86-64	
	Windows Server® 2008 R2	x86-64	
	Windows Server 2012, Server 2012 R2	x86-64	
	Windows Server 2016	x86-64	
Tomcat 8.5.[0-16] ³	IBM® AIX® 5.3 ⁴ , 6.1, 7.1	PowerPC®	IBM 1.7, 1.8
	Novell® SUSE® Linux Enterprise Server 10, 11	ia32, x86-64	OpenJDK ⁵ 1.7, 1.8
	Oracle® Enterprise Linux 5.x, 6.x	ia32, x86-64	Oracle Java SE 1.7, 1.8
	Red Hat® Enterprise Linux® AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris®10, 11	SPARC, x86-64	
	Windows® Server 2003, Server 2008	ia32, x86-64	
	Windows Server® 2008 R2	x86-64	
	Windows Server 2012, Server 2012 R2	x86-64	
	Windows Server 2016	x86-64	
Tomcat 8.0.[0-43] ³	IBM® AIX® 5.3 ⁴ , 6.1, 7.1	PowerPC®	IBM 1.7, 1.8
	Novell® SUSE® Linux Enterprise Server 10, 11	ia32, x86-64	OpenJDK ⁵ 1.7, 1.8
	Oracle® Enterprise Linux 5.x, 6.x	ia32, x86-64	Oracle Java SE 1.7, 1.8
	Red Hat® Enterprise Linux® AS/ES/WS 5, 6	ia32, x86-64	
	Oracle Solaris®10, 11	SPARC, x86-64	
	Windows® Server 2003, Server 2008	ia32, x86-64	
	Windows Server® 2008 R2	x86-64	
	Windows Server 2012, Server 2012 R2	x86-64	
Tomcat 7.0.[6-55]	IBM® AIX® 5.3 ⁴ , 6.1, 7.1	PowerPC®	IBM 1.6
	Novell® SUSE® Linux Enterprise Server 9, 10, 11	ia32, x86-64	OpenJDK ⁵ 1.6, 1.7
	Oracle® Enterprise Linux 5.x, 6.x	ia32, x86-64	Oracle Java SE 1.6, 1.7
	Red Hat® Enterprise Linux® AS/ES/WS 4, 5, 6	ia32, x86-64	
	Oracle Solaris 8 ⁶ , 9 ⁶	SPARC	
	Oracle Solaris 10	SPARC, x86-64	
	Windows® XP SP1+, Server 2003, Server 2008	ia32, x86-64	
	Windows Server® 2008 R2	x86-64	
	Windows Server 2012, Server 2012 R2	x86-64	

1. Tomcat 8.0.x and Tomcat 8.5.x monitoring do not fully support Servlet 3.0 and Servlet 3.1 when handling asynchronous requests and when monitoring scheduled operations.
2. Final platform support notice: Foglight for Java EE Technologies version 5.9.11 is the last release to support IBM AIX 5.3.

3. Tomcat 8.0.x and Tomcat 8.5.x monitoring do not fully support Servlet 3.0 and Servlet 3.1 when handling asynchronous requests and when monitoring scheduled operations.
4. Final platform support notice: Foglight for Java EE Technologies version 5.9.11 is the last release to support IBM AIX 5.3.
5. OpenJDK supported on Oracle EL 5 only.
6. Final platform support notice. Foglight for Java EE Technologies version 5.9.11 is the last release to support Oracle Solaris 8 and 9.

X-Agent

The following X-Agent Application Server configurations are supported:

i | **NOTE:** Foglight for Java EE Technologies version 5.9.11 is the last release to support JDK 1.4.x, 1.5.x, HP JDK, and JRockit JDK.

Table 10. X-Agent application servers

Server	Operating System	Architecture	JVM
X-Agent	HP-UX [®] 11i v2, v3	ia64	IBM JDK 1.6, 1.7, 1.8
	IBM [®] AIX [®] 6.1, 7.1	PowerPC	OpenJDK ¹ 1.6, 1.7, 1.8
	Novell [®] SUSE [®] Linux Enterprise Server 10, 11	ia32, x86-64	Oracle Java SE 1.6, 1.7, 1.8
	Oracle [®] Enterprise Linux 5.x, 6.x	ia32, x86-64	Oracle Java SE 1.6, 1.7, 1.8
	Red Hat [®] Enterprise Linux [®] AS/ES/WS 4, 5, 6,7	ia32, x86-64	
	Oracle Solaris [®] 10	SPARC [®]	
	Oracle Solaris 10	SPARC, x86-64	
	Windows [®] XP SP1+, Server 2003, Server 2008	ia32, x86-64	
	Windows Server [®] 2008 R2	x86-64	
	Windows Server 2012, Server 2012 R2	x86-64	

1. OpenJDK supported on Oracle EL 5 only.

Supported Microservices Framework

This topic outlines the supported Microservices framework versions, JVM configurations, and servlet containers.

- [Spring Boot Framework](#)

Spring Boot Framework

The following Pivotal® Spring Boot configurations are supported:

Table 11. Pivotal Spring Boot Framework

Version	JVM	Servlet containers
Spring Boot 2.0.0 BUILD-20170410.123845-511	JDK 1.8 OpenJDK 1.8	Tomcat 8.5.[11-13]
Spring Boot 1.5.2	JDK 1.7, 1.8 OpenJDK 1.7, 1.8	Tomcat 8.0 Tomcat 8.5.[11-13]
Spring Boot 1.4.1	JDK 1.7, 1.8 OpenJDK 1.7, 1.8	Tomcat 8.0 Tomcat 8.5.[5, 13]

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 www.quest.com/contact.

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.