Supported Environments and Versions

On this page:

This page provides an aggregated view of the system requirements for the Controller and agents.

Supported Platform Matrix for the AppDynamics Controller

Controller Operating System Requirements

The Controller is supported on the following operating systems:

Linux (32 and 64-bit)	Microsoft Windows (32 and 64 bit)

• Red Hat Enterprise Linux (RHEL) 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, and 7.0 • CentOS 5.9, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, and 7.0 • Fedora 14 • Ubuntu 8, 12 • Open SUSE 11.x • SUSE Linux Enterprise Server 12 • Cloud: Amazon EC2, Rackspace, Azure	• Windows Server 2003 • Windows Server 2008, Windows Server 2008 R2 • Windows Server 2012 R1 Standard and Datacenter, Windows Server 2012 R2 Standard and Datacenter • Windows 7 Pro • Windows 8

Supported Web Browsers for the Controller UI

The AppDynamics UI is an HTML 5-based browser application that works best with the latest version of any modern browser. The Controller UI has been tested with the following browsers and versions:

- IE 9+
- Safari 6+
- Chrome 16+
- Firefox 6+
  Opera and older versions of Firefox, IE, and Safari browsers may still operate well but some features may not display as intended.

The Controller UI requires Flash Player 10 or greater; AppDynamics recommends version 11.

LDAPv3 Support

You can delegate Controller UI authentication and authorization to external directory servers that comply with LDAP (Lightweight Directory Access Protocol) version 3.

While the Controller should be able to work with any LDAPv3-compliant server, it has been verified against these LDAP products:

- Microsoft Active Directory for Windows Server 2008 SP2+
- OpenLDAP, 2.4+

Supported Platform Matrix for the Java Agent

This page documents known environments in which the Java Agent has been used to instrument applications. The Java Agent can target specific Java bytecode. This provides wide-ranging flexibility, so if an environment is not listed here, this does not preclude the Java Agent from being able to extract valuable performance metrics. Contact AppDynamics Support or Sales for additional details.

Notes:

- A dash ("-") in a table cell indicates that this column is not relevant or not supported for that particular environment.
- In cases where no version is provided, assume that all versions are supported. Contact AppDynamics Support or Sales for confirmation.
- For environments that require additional configuration, a separate table describing or linking to configuration information follows the support matrix.
- For environments supported by AppDynamics End User Monitoring, see Supported Environments and Versions - Web EUM.
- For environments supported by AppDynamics Server Monitoring, Standalone Machine Agent Requirements and Supported Environments.

JVM Support

The AppDynamics Java Agent supports applications running with a JRE or a full JDK. These are the known JVM environments in which the Java Agent has been used to instrument applications.

Vendor	Implementation	Version	Operating System	Object Instance Tracking	Automatic Leak Detection	Custom Memory St	
						Content Inspection	**Access Tracking**
Oracle	Java HotSpot	7 Update 45+	Solaris Sparc 64, Windows, Linux	-	-	-	-
Oracle	Java SE (Standard Edition)	8[1]	Solaris Sparc 64, Windows, Linux	Yes	Yes	Yes	Yes
BEA	JRockit	1.5	-	-	Yes	Yes	Yes
BEA	JRockit	1.6, 1.7	-	-	Yes	Yes	-
Oracle	JRockit JVM	28.1+	Linux Intel 64 Windows	-	-	-	-
IBM	JVM	1.5.x, 1.6.x, 1.7.x	-	-	Yes, as noted[2]	Yes, as noted[2,3]	-
SUN	JVM	1.5, 1.6, 1.7	-	Yes	Yes	Yes	Yes

Open Source	OpenJDK	1.6	Linux, windows, everywhere	-	Yes	-	-
HP	OpenVMS	-	-	-	-	-	-

Notes:

[1] For examples of instrumenting new language constructs in Java SE 8, see Instrumenting Java 8 Constructs.

[2] Object instance tracking, automatic leak detection, and custom memory structure monitoring are not supported with the IBM Java Agent on an IBM JVM. It's possible to work around this limitation by using the Java Agent for the Sun and JRockit JVM on an IBM JVM, but doing so can result in a negative performance impact.

[3] For IBM JVMs, a restart is required after configuring the custom memory structure.

JVM Language Frameworks Support

No additional configuration is required for these frameworks.

Vendor	JVM Language Framework	Version	Correlation/ Entry Points	Exit Points	Transports	**Notes**
Open Source / Typesafe Reactive Platform	Akka Actor	2.1 – 2.3	Yes	Yes	Netty	Remoting exit/entry supported. Persistence (experimental module in v2.3) is not currently supported.
Open Source	Groovy	-	Yes	Yes		
Open Source / Typesafe Reactive Platform	Play for Scala	2.1 – 2.3	Yes	-	HTTP over Netty	Includes framework specific entry points
Open Source / Typesafe Reactive Platform	Spray toolkit (Spray.io)	1.1.1	Yes	Yes	HTTP	Entry points are detected and configurable as servlet entry point and exit points as HTTP exits.
Pivotal	Grails	-	-	-	-	

The Typesafe Reactive Platform is a JVM-based runtime and collection of tools used to build reactive applications. This includes Scala, Play, Akka, and Spray.io.

Application Servers

These are the known application server environments in which the Java Agent has been used to instrument applications. Some require additional configuration. Click the link on the server or OSGi Runtime name in the following support matrix for information about additional configuration required or related configuration topics. Application servers are usually found by the Java Agent as an entry point.

Vendor	Application Server / OSGi Runtime	Version	SOA Protocol	RMI Supported	JMX	Entry Points
Apache	Felix	-	-	-	-	Yes
Apache	Sling	-	-	-	-	Yes
Apache	Tomcat	5.x, 6.x, 7.x, 8.x	-	-	Yes	
Apache	Resin	1.x - 4.x	-	-	-	-
Adobe	Cold Fusion	8.x, 9.x	-	No	-	Yes
	Equinox	-	-	-	-	Yes
Eclipse	Jetty	6.x, 7.x	-	-	-	-
IBM	InfoSphere	8.x	-	-	-	Yes
IBM	WebSphere	6.1	JAX-WS	-	-	Yes
IBM	WebSphere	7.x	JAX-WS	Yes, detect and correlate	Yes for WebSphere PMI	Yes
IBM	WebSphere	8.x	JAX-WS	Yes, detect and correlate	-	Yes
Open Source	Liferay Portal	-	-	-	-	-
	GlassFish Enterprise Server	2.x	-	-	Yes	Yes
Oracle	GlassFish Server and GlassFish Server Open Source Edition	3.x, 4.x	-	-	Yes for AMX	Yes

Oracle and BEA	WebLogic Server	9.x+	JAX-WS	Yes, detect and correlate for 10.x	Yes	Yes
Software AG	webMethods	9.5, 9.6	-	-	-	Yes
Tibco	ActiveMatrix BusinessWorks Service Engine	5.x	-	-	-	Yes
	Application Server (OC4J)	-	-	Yes, detect and correlate for 10.x	-	Yes
-	Grails, with Tomcat 7.x, Glassfish v3, Weblogic 12.1.1 (12c)	-	-	-	-	
-	JBoss Server	4.x, 5.x	-	Yes, detect and correlate	-	Yes
	JBoss AS/Wildfly	6.x, 7.x, 8.x		Yes		Yes
	JBoss EAP	6.11, 6.2.0, 7.x		Yes		Yes

Notes:

- Servlet 3.x detection is not supported.

Application Server Configuration

For application server environments that require additional configuration, this section provides some information and links to topics that help you configure the environment. Environments in the Application Server Support table that require additional configuration, link to the configuration table below.

Application Server	Configuration Notes
Apache Felix	• OSGi Infrastructure Configuration
Apache Sling	• OSGi Infrastructure Configuration
Apache Tomcat	• Apache Tomcat Startup Settings
Apache Resin	• Resin Startup Settings

Apache Cold Fusion	• Configuration is required for transaction discovery; see Servlet Entry Points
Equinox	• OSGi Infrastructure Configuration
Eclipse Jetty	• Jetty Startup Settings
IBM InfoSphere	• IBM WebSphere and InfoSphere Startup Settings
IBM WebSphere	• IBM WebSphere and InfoSphere Startup Settings
Sun GlassFish Enterprise Server	GlassFish JDBC connection pools can be manually configured using MBean attributes and custom JMX metrics • GlassFish Startup Settings • Modify GlassFish JVM Options
Oracle GlassFish Server (including GlassFish Server Open Source Edition)	• GlassFish Startup Settings • Modify GlassFish JVM Options
Oracle and BEA WebLogic Server	• Oracle WebLogic Startup Settings
Software AG webMethods	• webMethods Startup Settings
Tibco ActiveMatrix BusinessWorks Service Engine	• Tibco ActiveMatrix BusinessWorks Service Engine Settings
JBoss Server	• JBoss and Wildfly Startup Settings

Message Oriented Middleware Support

These are the known message oriented middleware environments in which the Java Agent has been used to instrument applications. Some require additional configuration. Click the link on the messaging server name in the following support matrix for information about additional configuration required or related configuration topics. Message oriented middleware servers are usually found by the Java Agent as an entry point.

Vendor	Messaging Server	Version	Protocol	Correlation/Entry Points	Exit Points	JMX	Configurati
Amazon	Simple Queue Service (SQS)	-	-	Yes (correlation only)	Yes	-	• Amazon (SQS)
Apache	ActiveMQ	5.x+	JMS 1.x	Yes	Yes	Yes	

Apache	ActiveMQ	5.x+	STOMP	No	-	Yes	
Apache	ActiveMQ	5.8.x+	AMQP 1.0	No	-	Yes	• JMS Mes Points
Apache	ActiveMQ	5.x+	SOAP	Yes	-	Yes	• JMS Mes Points
Apache	Axis	1.x, 2.x	JAX-WS	Yes	Yes	-	Default exclu Apache Axis Admin Servl • Web Ser
Apache	Apache CXF	2.1	JAX-WS	Yes	Yes	-	
Apache	Synapse	2.1	HTTP	Yes	Yes	-	• To enabl property orrelatior
Fiorano	Fiorano MQ		-	-	-	-	
IBM	IBM MQ	6.x, 7.x	-	-	-	-	
IBM	IBM Web Application Server (WAS)	6.1+, 7.x	Embedded JMS	-	Yes	-	No additiona required. Se • JMS Mes Points
IBM	IBM WebSphere MQ	-	JMS	Yes	Yes	-	• IBM Web Queue E
	JBoss MQ	4.x	-	-	-	Yes	
JBoss	JBoss Messaging	5.x	-	-	-	Yes	
JBoss	HornetQ	-	-	-	-	Yes	
	Open MQ	-	-	-	-	-	
Mulesoft	Mule ESB	3.4	HTTP	Yes	Yes	-	• Mule ESI • Mule ESI • See also Java
Oracle	Java Message Service	2.0	JMS	Correlation of the listener is disabled by default	Yes		

Oracle	Oracle AQ	-	JMS	-	Yes	-	
Oracle / BEA	WebLogic	9.x+	JMS 1.1	Yes	Yes	Yes	• Oracle W Settings
Progress	SonicMQ	-	-	-	-	-	
Pivotal	RabbitMQ	-	HTTP	-	Yes	-	No additiona required. Se • RabbitM Exit Poin
Rabbit	RabbitMQ Spring Client	-	-	Yes	Yes	-	No addition required. Se • Message Java
Spring	Spring Integration	2.2.0	JMS	Yes	Yes	Yes	• Spring In • See also Exit Poin
WSO2	ESB	4.7.0	-	Yes	Yes	-	

JDBC Drivers and Database Servers Support

These are the known JDBC driver and database server environments in which the Java Agent has been used to instrument applications. AppDynamics can follow transactions using these drivers to the designated database.

JDBC Vendor	Driver Version	Driver Type	Database Server	Database Version
Apache	10.9.1.0	Embedded or client	Derby	-
Apache	-	-	Cassandra	-
Progress	DataDirect	data connectivity for ODBC and JBDC driver access, data integration, and SaaS and cloud computing solutions	-	-
IBM	JDBC 3.0 version 3.57.82 or JDBC 4.0 version 4.7.85	DB2 Universal JDBC driver	DB2	9.x

IBM	JDBC 3.0 version 3.66.46 or JDBC 4.0 version 4.16.53	DB2 Universal JDBC driver	DB2	10.1
IBM	-	Type IV	Informix	-
Microsoft	4	Type II	MS SQL Server	2012*
Oracle MySQL, MySQL Community	5.x	Type II, Type IV	MySQL	5.x
Open Source	Connector/J 5.1.27	Type IV	MySQL	5.x
Open Source	-	Type IV	Postgres	8.x, 9.x
Oracle	9.x	Type II, Type IV	Oracle Database	8i+
Sybase	jConnect	Type IV	Sybase	-
Teradata			Teradata	-

Notes:

- Type II is a C or OCI driver
- Type IV is a thin database client and is a pure Java driver

Business Transaction Error Detection

The Java Agent supports the following logging frameworks for business transaction error detection:

- Apache Log4j and Log4j 2
- java.util.logging
- Simple Logging Facade for Java (SLF4J)
- Logback

To instrument other types of loggers, see Configure Error Detection.

NoSQL/Data Grids/Cache Servers Support

These are the known NoSQL, data grids and cache server environments in which the Java Agent has been used to instrument applications. Some require additional configuration. Click the link on the database, data grid or cache name in the following support matrix for information about

additional configuration required or related configuration topics.

Vendor	Database/Data Grid/Cache	Version	Correlation/Entry Points	JMX	**Configuration Notes**
Amazon	DynamoDB	-	Custom Exit	-	• DynamoDB Exit Points
Amazon	S3	-	Custom Exit	-	• Amazon S3 Exit Points
Apache	Casandra (DataStax, REST) and Cassandra CQL3	1.x	Correlation	Yes	• Cassandra Exit Points for Java • Apache Cassandra Startup Settings
Apache	Lucene - Apache Solr	1.4.1	Entry Points	Yes	• Solr Startup Settings
JBoss	Cache TreeCache	-	-	-	• JBoss Startup Settings
Terracotta	EhCache	-	-	-	• EhCache Exit Points
Open Source	Memcached	-	-	-	• Memcached Exit Points
Open Source	MongoDB	-	-	-	• Java Backend Detection
Oracle	Coherence	3.7.1	Custom-Exit	Yes	• Coherence Startup Settings
JBoss	Infinispan	5.3.0+	Correlation	-	-

Java Frameworks Support

These are the known Java framework environments in which the Java Agent has been used to instrument applications. Some require additional configuration. Click the link on the Java framework name in the following support matrix for information about additional configuration required or related configuration topics.

Vendor	Framework	Version	SOA protocol (WebServices)	Auto Naming	Entry Points	Exit Points	Detec
Adobe	BlazeDS	-	HTTP and JMS adaptor	-	Yes		-
Adobe	ColdFusion	8.x, 9.x	-	-	Yes	-	Confi requir transa disco
Apache	Cassandra with Thrift framework	-	-	-	Yes	Yes	Apacl Entry Exit p are de
Apache	Struts	1.x, 2.x	-	-	Yes		Struts Actior detec entry struts invoc handl instru
Apache	Tapestry	5	-	-	Yes	-	Not b defau
	Wicket	-	-	No	Yes	-	Not b defau
Apple	WebObjects	5.4.3	HTTP	Yes	Yes	-	Yes
	CometD	2.6	HTTP	Yes	Yes	-	-
Eclipse	RCP (Rich Client Platform)	-	-	-	-	-	-
Google	Google Web Toolkit (GWT)	2.5.1	HTTP	Yes	Yes	-	-
JBoss	JBossWS Native Stack	4.x, 5.x	Native Stack	-	-	-	-
Open Source	Direct Web Remoting (DWR)	-	-	-	-	-	-

Open Source	Enterprise Java Beans (EJB)	2.x, 3.x	-	-	Yes	-	-
Open Source	Grails	-	-	-	Yes	-	Not b defau
Open Source	Hibernate JMS Listeners	1.x	-	-	-	-	-
Open Source	Java Abstract Windowing Toolkit (AWT)	-	-	-	-	-	-
Open Source	Java Server Faces (JSF)	1.x	-	Yes	Yes	-	Not b defau
Open Source	Java Server Pages	2.x	-	Yes	-	-	Yes
Open Source	Java Servlet API	2.x	-	-	-	-	-
Open Source	Jersey	1.x, 2.x	REST, JAX-RS	Yes	Yes	No	Not b defau
Open Source	WebSocket	1.0 (Java EE 7, JSR-356)	-	Yes, BT Naming not configurable	Yes, correlation not supported	Yes	Detec autom
Oracle	Coherence with Spring Beans	2.x, 3.x	-	-	-	-	-
Oracle	Swing (GUI)	-	-	-	-	-	-
Oracle	WebCenter	10.0.2,10.3.0	-	-	-	-	-
Open Source	JRuby HTTP	-	-	-	Yes	-	Not b defau
Spring	Spring MVC	-	-	-	Yes	-	Not b defau

Java Frameworks Configuration

For the Java framework environments that require additional configuration, this section provides some information and links to topics that help you configure the environment. Environments in the Java Frameworks Support table that require additional configuration, link to the configuration table

below.

Java Framework	Configuration Notes
Adobe BlazeDS	• Message Queue Exit Points for Java
Adobe ColdFusion	Configuration is required for transaction discovery • Java Business Transaction Detection • Servlet Entry Points
Apache Cassandra with Thrift framework	No additional configuration is required.
Apache Struts	• Struts Entry Points
Apache Tapestry	• Java Business Transaction Detection • Servlet Entry Points
Wicket	• Java Business Transaction Detection • Servlet Entry Points
Apple WebObjects	Business transaction naming can be configured via getter-chains, see • Getter Chains in Java Configurations • Detect Transactions by POJO Method Invoked by a Servlet
CometD	• See also HTTP Exit Points for Java
Open Source Enterprise Java Beans (EJB)	• EJB Entry Points
Open Source Hibernate JMS Listeners	No additional configuration is required. See also: • Advanced Options in Call Graphs
Open Source Java Server Faces (JSF)	• Java Business Transaction Detection and Servlet Entry Points
Open Source Java Server Pages	• Servlet Entry Points

Open Source Jersey	• JAX-RS Support and node properties:
	  • rest-num-segments
	  • rest-transaction
	  • rest-uri-segment-scheme
	See App Agent Node Properties Reference for information on the properties.

Open Source JRuby HTTP	• Java Business Transaction Detection • Servlet Entry Points
Open Source WebSocket	Node property: websocket-entry-calls-enabled
Spring MVC	• Java Business Transaction Detection • Servlet Entry Points

RPC/Web Services API/HTTP Client Support

These are the known Java framework environments in which the Java Agent has been used to instrument applications. Some require additional configuration. Click the link on the RPC, web services or API framework name in the following support matrix for information about additional configuration required or related configuration topics.

Vendor	RPC/Web Services API Framework	Version	SOA Protocol-WebServices	Auto Naming	Correlation/Entry Points	Exit Points	Configura BT Namin Properties
Apache	Apache CXF	2.1	JAX-WS	Yes	Yes	Yes	Yes
Apache	Apache HT TP Client	-	HTTPClient (now in Apache HTTP Components)	Yes	Yes (correlation only)	Yes	-
Apache	Apache Thrift	-	-	Yes	Yes	Yes	Yes
IBM	WebSphere	6.x	JAX-RPC	-	-	-	-
IBM	WebSphere	7.x, 8.x	JAX-RPC	-	-	-	-
IBM	Websphere	7.x, 8.x	IIOP	-	-	-	-
JBoss	JBoss	4.x, 5.x	RMI	Yes	Yes	Yes	Yes
Open Source	java.net.Http	-	HTTP	Yes	-	Yes	Yes
Open Source	HTTPClient	0.3-3	Oracle SOA (and potentially others that embed this library)	-	Correlation: Yes; Entry: No	Yes	-

Oracle	GlassFish Metro	-	JAX-WS	-	-	-	-
Oracle	GlassFish Metro with Grails	-	JAX-WS	-	Yes	-	-
Oracle	Oracle Application Server	ORMI	-	no	-	-	-
Oracle	WebLogic	10.x	T3, IIOP	Yes	Correlation: Yes; Entry: No	Yes	-
Oracle	WebLogic	9.x, 10.x	JAX-RPC	-	-	-	-
Sun	Sun RMI	-	IIOP	-	Not by Default	-	-
Sun	Sun RMI	-	JRMP	-	By Default	Yes	host/port
-	Web Services	-	SOAP over HTTP	-	Yes	Yes	-

RPC/Web Services API Framework Configuration

For the RPC and web service API environment that require additional configuration, this section provides some information and links to topics that help you configure the environment. Environments in the RPC/Web Services API Framework Support table that require additional configuration, link to the configuration table below.

RPC/Web Services API	Configuration Notes
Apache Commons	• HTTP Exit Points for Java
Apache Thrift	• Binary Remoting Entry Points for Apache Thrift
IBM WebSphere	• IBM WebSphere and InfoSphere Startup Settings, • Instrument JVMs in a Dynamic Environment. See also Default configuration excludes WebSphere classes.
JBoss	• JBoss and Wildfly Startup Settings
Open Source java.net.Http	• HTTP Exit Points for Java
Oracle WebLogic	• Oracle WebLogic Startup Settings • Default configuration excludes WebLogic classes

Web Services	• Create Match Rules for Web Services • Web Service Entry Points • Web Services Exit Points for Java

Supported Platform Matrix for the .NET Agent

Supported Runtime Environments

This section lists the environments where the .NET Agent does some automatic discovery after little or no configuration.

OS Versions

- Microsoft* Windows* Server 2003 (32-bit and 64-bit)
- Microsoft Windows Server 2008 (32-bit and 64-bit)
- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012 R2

Microsoft .NET Frameworks

- Microsoft .NET Framework versions 2.0, 3.0, 3.5, 4.0, 4.5, 4.5.2

Runtime Environments

- Microsoft IIS versions 6.0, 7.0, 7.5, 8.0, 8.5
- Managed Windows Services
- Managed Standalone Applications
- Microsoft SharePoint 2010, 2013 as services running inside IIS

Microsoft Windows Azure

- Windows Azure Cloud Services (Web Roles and Worker Roles)

Unsupported Frameworks

- Microsoft .NET versions 1.0, 1.1
- Unmanaged native code
- Windows Azure Web Sites

Automatically Discovered Business Transactions

The .NET Agent discovers business transactions for the following frameworks by default. The agent enables detection without additional configuration.

Type	Custom Configuration Options	Downstream Correlation
ASP.NET	Yes	Yes
ASP.NET MVC 2 ASP.NET MVC 3 ASP.NET MVC 4 ASP.NET MVC 5	Yes	Yes
.NET Remoting	No	See Enable Correlation for .NET Remoting.
Windows Communication Foundation (WCF)	No	Yes
Web Services including SOAP	No	Yes
Message Queues		
Apache ActiveMQ NMS framework and related MQs	No	Yes
IBM WebSphere MQ	No	Yes
Microsoft Message Queuing (MSMQ)	No	Yes
Microsoft Service Bus / Windows Azure Service Bus	No	Yes
NServiceBus over MSMQ or RabbitMQ transport	No	Yes
RabbitMQ	Yes	Yes
TIBCO Enterprise Message Service	No	Yes
TIBCO Rendezvous	No	Yes
Windows Azure Queue	No	Yes

The App Agent for .NET automatically discovers entry points for ASP.NET web forms with the Async property set to "true" in the Page directive.

Supported Loggers for the .NET Agent

- Log4Net
- NLog

- System Trace
- Windows Event Log

If you are using a different logger, see Configure Error Detection.

Remote Service Detection

The .NET Agent automatically detects the following remote service types. The agent enables detection by default. You don't need to perform extra configuration.

Type	Custom Configuration Options	Async Detection †	Downstream Correlation
Directory Services, including LDAP	No	No	N/A
HTTP	Yes	See Asynchronous Exit Points for .NET.	Yes
.NET Remoting	Yes	No	Requires configuration. See Enable Correlation for .NET Remoting.
WCF	Yes	See Asynchronous Exit Points for .NET.	Yes
WCF Data Services	Yes	No	No
Web Services, inlcuding SOAP	Yes	See Asynchronous Exit Points for .NET.	Yes
Message Queues			
Apache ActiveMQ NMS framework and related MQs	Yes	No	Yes
IBM WebSphere MQ (IBM XMS)	Yes	No	Yes
Microsoft Message Queuing (MSMQ)	Yes	See MSMQ Backends for .NET.	See MSMQ Backends for .NET.
Microsoft Service Bus / Windows Azure Service Bus	No	Async exit points only.	Yes
NServiceBus over MSMQ or RabbitMQ transport	No	See NServiceBus Backends for .NET.	Yes

RabbitMQ	See RabbitMQ Backends for .NET.	No	Yes
TIBCO Enterprise Message Service	Yes	No	Yes
TIBCO Rendezvous	Yes	No	Yes
Windows Azure Queue	No	No	No

† The agent discovers asynchronous transactions for the Microsoft .NET 4.5 framework. See Asynchronous Exit Points for .NET. for details.

Supported Windows Azure Remote Services

Type	Configuration can be customized	Downstream Correlation
Azure Blob	No	No
Azure Queue	No	No
Microsoft Service Bus	No	Yes

Data Storage Detection

The .NET Agent automatically detects the following data storage types. The agent enables detection by default. You don't need to perform extra configuration.

Type	Configuration Can Be Customized	Async Detection †	AppD for Databases?
ADO.NET (see supported clients below)	Yes	Yes	No
Windows Azure Blob Storage	No	Yes	No
Windows Azure File Storage	No	Yes	No
Windows Azure Table Storage	No	Yes	No

† The agent discovers asynchronous transactions for the Microsoft .NET 4.5 framework. See Asynchronous Exit Points for .NET. for details.

Supported ADO.NET Clients

AppDynamics can monitor any ADO.NET client version and type. Clients we've tested include the following:

Database Name	Database Version	Client Type
Oracle	10, 11, 12	ODP.NET
Oracle	10, 11, 12	Microsoft Provider for Oracle
MySQL	5.x	Connector/Net and ADO.NET
Microsoft SQL Server *	2005, 2008, 2012	ADO.NET

Supported Platform Matrix for the PHP Agent

PHP Versions

Supported PHP Versions	Comment
5.2	Does not detect mysqli backends instantiated with the **new** keyword. See note below. PHP 5.2 is not supported on OSX.
5.3	
5.4	
5.5	
5.6	

PHP 5.2 Note

The PHP Agent is incompatible with PHP 5.2 applications that use the **new** keyword to instantiate a mysqli backend.
For example, AppDynamics will not detect the mysqli backend created by a PHP 5.2 application that uses an expression like this:

```
// Does not get detected.
$db = new mysqli("localhost", "user", "password", "database");
```

The workaround is to change such expressions to use mysqli_connect():

```
$db = mysqli_connect("localhost", "user", "password", "database");
```

PHP ZTS Note

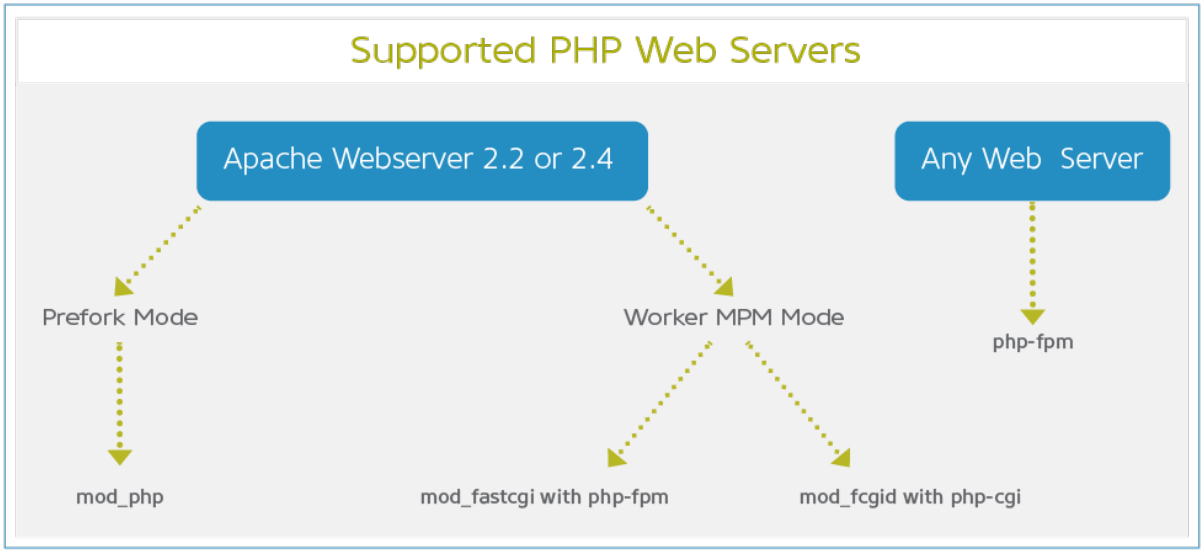
The PHP Agent is incompatible with the mode of PHP called Zend Thread Safety (ZTS).

If you are using ZTS, AppDynamics suggests that you review your dependencies on ZTS to confirm that you actually need it, and if you do not, to switch to non-ZTS mode.

If you have a legacy infrastructure which requires ZTS or an app library that needs it, such as pthreads, contact AppDynamics Support.

PHP Web Servers

Supported Web Server	Version	Comment
Apache	2.2	in prefork mode using mod_php
Apache	2.4	in prefork mode using mod_php
Apache	2.2	in worker MPM mode using mod_fastcgi with php-fpm or mod_fcgid with php-cgi
Apache 2.4	2.4	in worker MPM mode using mod_fastcgi with php-fpm or mod_fcgid with php-cgi
Any Web Server compatible with php-fpm		



Operating Systems

Supported Operating System	Version	Comment
RHEL/CentOS	5.8+	SELinux is disabled.
Ubuntu	10+	SELinux is disabled.
Debian	6	SELinux is disabled.
OSX	Mavericks	

Architecture

Supported Architecture
32-bit
64-bit

PHP Frameworks and Protocols

Framework/Protocol	Version	Entry Point Type
Drupal	7	Drupal
WordPress	3.4 & 3.5	Wordpress
Zend	1 & 2	PHP MVC
CodeIgniter	2.x	PHP MVC
FuelPHP	1.5x & 1.6x	PHP MVC
Magento	1.5, 1.6 & 1.7	PHP MVC
Symfony	1 & 2	PHP MVC
CakePHP	2.x	PHP MVC
HTTP		PHP Web
CLI		PHP CLI

If your PHP framework is not listed here, the agent detects your entry points as PHP Web and names the business transactions based on the first two segments of the URI (the default naming convention for PHP Web transactions). So it is still possible to monitor applications on "unsupported" frameworks. You can modify the naming convention used for PHP Web Entry points. See Configure PHP Web Transaction Naming.

Transaction Naming

Framework/Environment	Default Transaction Naming
Drupal	page callback name
Wordpress	template name
PHP MVC Frameworks	controller:action
PHP Modular MVC Frameworks	module:controller:action
PHP Web	URI
PHP Web Service	service name.operation name
PHP CLI	last two segments of the script's directory path plus the name of the script

Virtual host prefixing is available for all supported entry point types except PHP CLI.

Exit Points

Supported HTTP Exit Points
curl/curl-multi
drupal_http_request()
fopen(), file_get_contents()
Zend_HTTP_Client::request()

Supported Database Exit Points
MySQL old native driver
MySQLi Extension
OCI8
PDO
PostgreSQL accessed via PDO and pgsql extensions *New in 4.1.5*

Supported Cache Exit Points	Version

Memcache	
Memcached	
Predis	0.8.5

Predis is supported on PHP versions 5.3 and higher.

Although Predis is a full PHP client library, the PHP Agent supports Predis as an exit point only, not as an entry point.

Supported Web Service Exit Points
PHP SOAPClient
NuSOAP 0.9.5

Supported Message Queue Exit Points
RabbitMQ

RabbitMQ support requires the amqp extension.

Opcode Cache Compatibility

Alternative PHP Cache (APC)	

Correlation with AppDynamics for Databases

AppDynamics for Databases version 2.7.4 or higher is required if you want to correlate AppDynamics for Databases with the PHP Agent.

Supported Platform Matrix for the Node.js Agent

Node.js Versions

Supported Node.js Versions	Comment
0.8	
0.10+	*New in 4.1.2* Support for 0.10.40
0.12+	*New in 4.1.1* Support for 0.12.5 and 0.12.6 *New in 4.1.2* Support for 0.12.7

Operating Systems

Supported Operating System
Linux 32-bit
Linux 64-bit
Mac OSX v10.9.2

Transaction Naming

Entry Type	Default Transaction Naming
Node.js Web	URI

HTTP Exit Points

Supported HTTP Exit Points
Node.js HTTP client library

See http://nodejs.org/api/http.html for information about the Node.js HTTP client library.

Database Exit Points

Supported Database Exit Points
MongoDB
MySQL
PGSQL
Riak

Riak backends are automatically detected, but they are displayed as HTTP backends in the flowmaps.

Cache Exit Points

Supported Cache Exit Points
Memcached

Redis

Supported Platform Matrix for the Python Agent

Python Versions

Supported Python Versions	
CPython 2.6	
CPython 2.7	

Operating Systems

Supported Operating System
Linux 64-bit
Linux 32-but
Mac

Python Frameworks and Protocols

Framework/Protocol	Version	Entry Point Type
WSGI	1.0	Python Web

AppDynamics has tested the Python Agent on Django, Flask, and CherryPy.

The agent may be configured to instrument any WSGI-based application or framework as Python Web, including (but not limited to) those listed below.

At present, the Python agent fully supports exception detection in Django, Flask, and CherryPy frameworks. Other WSGI frameworks and custom WSGI applications may install exception handlers that effectively hide some exceptions from the agent. In such cases, the agent will only detect exceptions during exit calls, uncaught exceptions which are propagated to the WSGI server, and exceptions reported via the custom business transaction API.

WSGI-Based Frameworks
Bottle
CherryPy
Django

Flask
PasteDeploy *New in 4.1.3*
Pyramid
Zope 3

Transaction Naming

Framework/Environment	Default Transaction Naming
WSGI	first two segments of the URI

Database Exit Points

Supported Database Exit Points	Version
MySQL-Python	
MySQL Connector/Python	
Psycopg 2	

HTTP Exit Points

Supported HTTP Exit Calls
httplib*
httplib2
requests
urllib
urllib2
urllib3

*The agent detects calls to any external library built on top of httplib. Therefore, backend calls to such services, such as boto, dropbox, python-twitter, etc. are detected and displayed as HTTP exit calls.

Cache Exit Points

Supported Cache Exit Points
Memcache
Redis-py

Supported Platform Matrix for the Web Server Agent

Web Servers

Supported Web Server Version
• Apache HTTP Server 2.2.x (32-bit and 64-bit) • Apache HTTP Server 2.4.x (32-bit and 64-bit)

Operating Systems

Supported Operation System
• Ubuntu 11+ (32-bit and 64-bit) • Cent OS 5+ (32-bit and 64-bit) • Red Hat 5+ (32-bit and 64-bit)

Automatically Discovered Business Transactions

The Web Server Agent automatically discovers the following business transactions:

Type	Custom Configuration Options	Downstream Correlation
Web (HTTP)	Yes	Yes

By default the agent excludes requests for the following static file types:
bmp
cab
class
conf
css
doc
gif
ico
jar
jpeg

jpg
js
mov
mp3
mp4
pdf
png
pps
properties
swf
tif
txt
zip

Remote Service Detection

Apache Modules

The Web Server Agent automatically detects loaded Apache modules as remote services. The agent excludes a list of common modules from detection.

Show the list of excluded modules...

core.c

http_core.c

mod_access_compat.c

mod_actions.c

mod_alias.c

mod_allowmethods.c

mod_appdynamics.cpp

mod_auth_basic.c

mod_auth_digest.c

mod_authn_alias.c

mod_authn_anon.c

mod_authn_core.c

mod_authn_dbd.c

mod_authn_dbm.c

mod_authn_default.c

mod_authn_file.c

mod_authn_socache.c

mod_authnz_ldap.c

mod_authz_core.c

mod_authz_dbd.c

mod_authz_dbm.c

mod_authz_default.c

mod_authz_groupfile.c

mod_authz_host.c

mod_authz_owner.c

mod_authz_user.c

mod_autoindex.c

mod_cache.c

mod_cache_disk.c
mod_cgi.c

mod_data.c

mod_dav.c

mod_dav_fs.c

mod_dav_lock.c

mod_dbd.c

mod_deflate.c

mod_dir.c

mod_disk_cache.c

mod_dumpio.c

mod_echo.c

mod_env.c

mod_expires.c

mod_ext_filter.c

mod_file_cache.c

mod_filter.c

mod_headers.c

mod_include.c

mod_info.c

mod_lbmethod_bybusy

ness.c

mod_lbmethod_byrequ
ests.c

mod_lbmethod_bytraffi
c.c

mod_lbmethod_heartbe
at.c

mod_log_config.c

mod_logio.c

mod_lua.c

mod_mem_cache.c

mod_mime.c

mod_mime_magic.c
mod_negotiation.c

mod_perl.c

mod_python.c

mod_remoteip.c

mod_reqtimeout.c

mod_rewrite.c

mod_setenvif.c

mod_slotmem_plain.c

mod_slotmem_shm.c

mod_so.c

mod_socache_dbm.c

mod_socache_memcache.c

mod_socache_shmcb.c

mod_speling.c

mod_ssl.c

mod_status.c

mod_substitute.c

mod_suexec.c

mod_systemd.c

mod_unique_id.c

mod_unixd.c

mod_userdir.c

mod_usertrack.c

mod_version.c

mod_vhost_alias.c

prefork.c

util_ldap.c

For End User Monitoring, the Web Server Agent does not support:

- automatic injection of the Javascript adrum header and footer to instrument web pages.
- server side business transaction correlation with Mobile Real User Monitoring.

Supported Platform Matrix for the Standalone Machine Agent

The Standalone Machine Agent provides platform-level metrics. It has a default built-in plugin for hardware monitoring. See Install the Standalone Machine Agent.

JVM Requirements for the Standalone Machine Agent

The Standalone Machine Agent runs on a Java Virtual Machine. JVM 1.7 is required.

The Standalone Machine Agent should work with most, if not all the JVMs supported by the Java Agent; however, the Standalone Machine Agent is only extensively tested with and fully supported on Oracle JDK and OpenJDK.

Supported Platforms for Default Hardware Monitor Plugin

Operating System	Architecture	Versions
Linux	x86	2.2 and above
Linux	amd64	2.6 kernel
Linux	ppc	2.6 kernel
Linux	ppc64	2.6 kernel
Linux	ia64	2.6 kernel
Linux	s390	2.6 kernel

Linux	s390x	2.6 kernel
Solaris	Sparc-32	2.6, 7, 8, 9, 10
Solaris	Sparc-64	2.6, 7, 8, 9, 10
Solaris	x86	8, 9, 10
Solaris	x86_x64	8, 9, 10
AIX	ppc	4.3, 5.1, 5.2, 5.3, 6.1
AIX	ppc64	5.2,5.3,6.1
HP-UX	PA-RISC	11
HP-UX	ia64	11
FreeBSD	x86	4.x
FreeBSD	x86	5.x, 6.x
FreeBSD	x64	6.x
FreeBSD	x86, x64	7.x,8.x
OpenBSD	x86	4.x,5.x
NetBSD	x86	3.1
Mac OS X	PowerPC	10.3, 10.4
Mac OS X	x86	10.4, 10.5, 10.6
Mac OS X	x64	10.5, 10.6
Windows	x86	NT 4.0, 2000 Pro/Server, 2003 Server, XP, Vista, 2008 Server, 7
Windows	x64	2003 Server, Vista, 2008 Server, 7

The following Linux distributions have been certified:

Distribution	Versions
Red Hat	6.2, 7.3, 8.0, 9.0
RHEL	3, 4, 5, 6
CentOS	3, 4, 5

Fedora	2, 3, 4, 5, 6, 7, 8, 9, 10
SuSE	8, 9, 10, 11
Ubuntu	6.06, 8.04, 8.10, 9.04
Debian	2.6, 3.0, 3.1, 3.2, 4.0, 5.0
VMware ESX	2.x, 3.0
XenServer	3.1, 3.2, 4.0, 4.1, 5.0
Slackware	10, 11
Mandrake	10
Scientific Linux	5
Gentoo	

Note: If you are using a 64-bit Operating System, use only a 64-bit Java Runtime Environment (JRE). For more details see Supported Platform Matrix for Default Hardware Monitoring Plugin.

Supported Platform Matrix for Browser Real User Monitoring

Browser Compatibility

- IE6/7/8/9/10/11/Edge
- Chrome, including Mobile
- Firefox, including Mobile
- Safari, including Mobile
- Opera

Browsers are rapidly evolving, and not all versions have been specifically tested with Browser RUM. You can see which browser versions *are likely* to support the Resource Timing API functionality here.

Browser RUM Compatibility in Java Environments

Manual injection for the JavaScript agent is available for **all** Java web application environments.

In addition, the following frameworks are certified for the following Browser RUM instrumentation strategies.

- **All** these frameworks support manual injection of the JavaScript agent for Browser RUM.
- **Additional** supported script injection strategies are listed in the Script Injection column. See Set Up Your Application for Browser RUM for details.

Web Application/ AJAX Frameworks	Version	Certified App Server	Script Injection
JSP	Servlet 2.3	Tomcat 7x , GlassFish v3, Weblogic (Assisted only)	Automatic / Assisted
JSF	MyFaces, ICEFaces, ADF	Tomcat 7x , Glassfish v3	Manual
Tapestry	5.0		Manual
Struts (using Jasper)	2	Tomcat 7x, GlassFish v3	Automatic / Assisted
Spring MVC		Tomcat 7x	Automatic / Assisted
Grails		Tomcat 7x, Glassfish v3, Weblogic 12c	Manual
Wicket		Tomcat 7	Automatic / Assisted
Web Objects			Manual
Liferay			Manual
ZK			Manual
JQuery		Tomcat 7	Automatic / Assisted
MooTools		Tomcat 7	Automatic / Assisted
DWR		Tomcat 7, Glassfish V3, Weblogic 12c	Automatic / Assisted
YUI		Tomcat 7	Automatic / Assisted
EXT JS		Tomcat 7	Automatic / Assisted
Dojo Web tool kits		Tomcat 7, Glassfish V3, Weblogic 12c	Automatic / Assisted
GWT			Manual

AngularJS			Manual
Backbone (injection only)			Manual

Applications built using the Play framework can be instrumented manually, and report browser-based metrics, but they do not support server-side correlation, as the framework itself is built on a custom stack and not on the J2EE servlet spec.

Browser RUM Compatibility in .NET Environments

AppDynamics certifies Browser RUM instrumentation for the following .NET frameworks.

- **All** listed frameworks support manual injection of the JavaScript agent for Browser RUM.
- **Additional** supported script injection strategies are listed in the Script Injection column. See Set Up Your Application for Browser RUM for details.

Web Application/ AJAX Frameworks	Versions	Additional Supported Script Injection Methods
ASP.NET Web Forms (.aspx)	3, 4	Automatic, Assisted Injection-Using Attribute Injection
ASP.NET MVC Web Forms (.aspx)	3, 4, 5	Automatic, Assisted Injection-Using Attribute Injection
ASP.NET MVC Razor	3, 4, 5	Assisted Injection-Using Attribute Injection
Microsoft SharePoint	2007, 2010	Automatic

AppDynamics does not support Browser RUM instrumentation of legacy ASP (.asp) pages.

Supported Runtime Environments for .NET Browser RUM

- Microsoft IIS versions 6.0, 7.0, 7.5, 8.0, 8.5

Supported Platform Matrix for Mobile RUM

Operating Systems

Supported Operating System	Version
iOS	5.1.1+

Android	2.3.3+

iDevice Architecture

Apple 32-bit ARM
Apple 64-bit A7

iOS Environments

Supported Framework	Version
XCode	5+

Apple WatchKit Extension Environments

Supported Architectures
watchOS 1 architectures in both watchOS 1 and 2 environments

Android Environments

Supported Framework	Version
Ant	
Gradle	1.8, 1.10, 1.12, 2.1
Maven	3.1.1+

Supported HTTP Libraries

Platform	Library
iOS	NSURLConnection, NSURLSession
Android	HttpURLConnection, HttpsURLConnection, HttpClient

Both	Other HTTP libraries can be added by using the agent SDK. See Use the APIs of the iOS SDK to Customize Your Instrumentation and Use the APIs of the Android SDK to Customize Your Instrumentation for more information.

Supported Compute Clouds for Automating Workflow

In order to create workflows that allow the automatic creation and deletion of cloud-based instances in response to load, the AppDynamics controller must have access to a cloud-provider-specific cloud connector extension. The AppDynamics Community provides many of these cloud connector extensions. You can download supported cloud connector extensions from the AppDynamics Exchange.