

vCenter Hyperic Resource Configuration and Metrics

vCenter Hyperic 5.8

This document supports the version of each product listed and supports all subsequent versions until the document is replaced by a new edition. To check for more recent editions of this document, see <http://www.vmware.com/support/pubs>.

EN-000959-04

vmware[®]

You can find the most up-to-date technical documentation on the VMware Web site at:

<http://www.vmware.com/support/>

The VMware Web site also provides the latest product updates.

If you have comments about this documentation, submit your feedback to:

docfeedback@vmware.com

Copyright © 2014 VMware, Inc. All rights reserved. [Copyright and trademark information.](#)

VMware, Inc.
3401 Hillview Ave.
Palo Alto, CA 94304
www.vmware.com

Contents

About vCenter Hyperic 5.8 Configuration and Metrics Guide	9
1 Java Applications	11
Prerequisites and Supported Environments	12
Creating an MBean Server	12
Create an MBeanServer for Stand-Alone Apps or Other Container	13
Enable ModelMBean Export in JBoss Containers	13
Step 1 - Set Up Resources to Export ModelMBeans	13
Step 2 - Verify Model MBean Export to MBeanServer	14
Step 3 - Verify Service Application Auto-Discovery	14
Step 4 - Configure App Services as an Application	14
Model MBean Naming and Descriptor Data	15
ModelMBeanInfo Descriptors	16
ModelMBeanAttributeInfo Descriptors	16
ModelMBeanOperationInfo Descriptors	19
2 Configuring a tc Server Instance	21
Configure tc Runtime Parameters	21
Managing tc Server Applications	29
Managing tc Runtime JDBC Reference Parameters	40
Managing tc Runtime Services Reference Parameters	43
SpringSource tc Runtime 6.0 server	48
SpringSource tc Runtime 7.0 server	58
3 PostgreSQL	69
Supported Versions and Requirements	69
Configuring PostgreSQL	70
Resource Types and Management Functions	72
vPostgres 9.x server	73
PostgreSQL 9.x server	78
PostgreSQL 8.x server	83
4 WebLogic Server	89
WebLogic Configuration Overview	90
Configure WebLogic Server Monitoring	90
Weblogic 9.1 Server	92
Weblogic 9.2 Server	104
Weblogic 10.0 Server	117
Weblogic 10.1 Server	130
Weblogic 10.2 Server	143
Weblogic 10.3 Server	156

	Weblogic Admin 9.1 Server	168
	Weblogic Admin 9.2 Server	181
	Weblogic Admin 10.0 Server	194
	Weblogic Admin 10.1 Server	207
	Weblogic Admin 10.2 Server	220
	Weblogic Admin 10.3 Server	232
	Weblogic NodeManager 9.1 Server	244
	Weblogic NodeManager 9.2 Server	244
	Weblogic NodeManager 10.0 Server	244
	Weblogic NodeManager 10.1 Server	245
	Weblogic NodeManager 10.2 Server	245
	Weblogic NodeManager 10.3 Server	245
5	RabbitMQ	247
	Supported Versions and Requirements	247
	RabbitMQ Resources and the vCenter Hyperic Inventory Model	248
	SSL Requirements	248
	RabbitMQ Configuration Instructions	249
	RabbitMQ Resource Types and Management Functions	250
6	GemFire	263
	GemFire Resources and the vCenter Hyperic Inventory Model	264
	GemFire Configuration Overview	265
	GemFire Resource Types and Management Functions	265
	GemFire Configuration Instructions	272
	GemFire Metric Documentation	274
	GemFire Events	277
	vCenter Hyperic GemFire View	278
7	Network Platform Services	279
	Configuration Requirements and Options for Monitoring Network Services	280
	Metrics for Network Services	280
	Classes for Monitoring a Network Service	280
	Services vCenter Hyperic Can Monitor Over the Network	280
8	Spring Insight	325
	Functionality of Hyperic Spring Insight Plugin	326
	Spring Insight Supported Versions and Requirements	326
	Spring Insight Resources and the Hyperic Inventory Model	326
	Spring Insight Installation Environment	326
	Spring Insight Configuration Instructions	327
	Spring Insight Resource Types and Management Functions	328
	Spring Insight Metric Collection	329
	Spring Insight Pre-Configured Alert Definitions	331
	Spring Insight Applications View	332
9	Local Platform Services	333
	Create a Platform Service	333

	Configuration Instructions for Platform Services	334
	Event Tracking	336
10	FileServer Directory Service	337
	Create FileServer Directory Service	337
	FileServer Directory Service Configuration Options	337
	FileServer Directory Service Metrics	338
11	FileServer Directory Tree Service	339
	Create FileServer Directory Tree Service	339
	FileServer Directory Tree Service Configuration Options	339
	FileServer Directory Tree Metrics	340
12	FileServer File Service	341
	Create FileServer File Service	341
	FileServer File Service Configuration Options	341
	FileServer File Service Metrics	342
13	FileServer Mount Service	343
	Create FileServer Mount Service	343
	FileServer Mount Service Configuration Options	343
	FileServer Mount Service Metrics	344
14	Multiprocess Service	345
	Create a Multiprocess Service	345
	Multiprocess Service Configuration Options	346
	Multiprocess Service Metrics	346
	Specifying Multiprocess Queries	346
15	Process Service	349
	Specifying Process Queries	349
	Create a Process Service	350
	Process Service Configuration Options	350
	Process Service Metrics	350
	Process Controls	351
16	Script Service	353
	Create a Script Service	353
	Script Service Configuration Options	354
	Script Service Metrics	354
17	CPU Service	355
	CPU Service Metrics	355
18	NetworkService Interface Service	357
	NetworkServer Interface Service Metrics	357

- 19 Windows Service 359**
 - Windows Service Plugin Function 359
 - Configure the Windows Service 359
 - Windows Service Metrics 360
 - Define Windows Service Monitoring Defaults 360

- 20 Sun JVM 361**
 - Step 1 - Configure JVM for JMX Monitoring 361
 - Step 2 - Add JVM to Inventory 361
 - Step 3 - Configure JVM for Monitoring 362
 - Sun JVM Events 362
 - VmDisconnectedEvent 394
 - VmFailedToShutdownGuestEvent 396
 - AccountCreatedEvent 405
 - VmInstanceUuidChangedEvent 440

- 21 WebSphere MQ 451**
 - Installation Path 451
 - WebSphere MQ Metrics 451

- 22 WebSphere 463**
 - WebSphere Resources and the Hyperic Inventory Model 463
 - WebSphere Configuration Instructions 464
 - WebSphere Management Functions 465
 - WebSphere Metric Documentation 467

- 23 JBoss 491**
 - JBoss Configuration Tracking 491
 - JBoss Metrics 492

- 24 Network Device 581**
 - Network Device Resources and the vCenter Hyperic Inventory Model 581
 - Network Device Configuration Instructions 581
 - Privileges Required for Default SNMP Port 585
 - Network Device Management Functions 585

- 25 Microsoft SQL Server 591**
 - Microsoft SQL Configuration Instructions 591
 - Microsoft SQL Resource Types and Management Functions 592
 - Microsoft SQL Server Metrics 593

- 26 vFabric Web Server 609**
 - vFabric Web Server Configuration Instructions 609
 - vFabric Web Server Resource Types and Management Functions 610
 - vFabric Web Server Metrics 611

- 27 Hyper-V Plug-in 617**

28	Microsoft Exchange	621
	Microsoft Exchange Configuration Instructions	622
	Microsoft Exchange Resource Types and Management Functions	623
	Microsoft Exchange Metrics	623
29	Microsoft Active Directory	665
	Microsoft Active Directory Server Metrics	665
	Microsoft Active Directory LDAP Service Metrics	666
	Microsoft Active Directory Authentication Service Metrics	667
30	Microsoft IIS	669
	Configure vCenter Hyperic to Manage IIS	670
	Resource Types and Management Functions	670
	Microsoft IIS 8.x Server Metrics	671
	Microsoft IIS 7.x Server Metrics	682
	Microsoft IIS 6.x Server Metrics	694
	Microsoft IIS 5.x Server Metrics	705
	Microsoft IIS 4.x Server Metrics	716
31	Sharepoint	727
	SharePoint Supported Versions and Requirements	727
	Configuring SharePoint to work with vCenter Hyperic	727
	Resource Types and Management Functions	728
	SharePoint 2010 server	729
	SharePoint 2007 server	749
	Index	761

About vCenter Hyperic 5.8 Configuration and Metrics Guide

The *vCenter Hyperic 5.8 Configuration and Metrics Guide* documents the configuration requirements and metrics available for selected VMware vCenter Hyperic product plug-ins. This guide supplements the *vCenter Hyperic Administration Guide*.

Intended Audience

This information is intended for operations personnel who set up and support the vCenter Hyperic infrastructure.

Java Applications

This section provides the information you need to configure your Java applications.

Auto-discovery of Custom MBeans

The vCenter Hyperic agent can auto-discover and manage Java application services via Model MBeans that adhere to a specified ObjectName naming convention and expose a specified set of service data. This enables you to monitor application services along with the hosting application server and its internal services.

- [Prerequisites and Supported Environments](#) on page 12
This topic specifies requirements for HQ auto-discovery and management for Java application services.
- [Creating an MBean Server](#) on page 12
The application servers listed in Supported Containers generally have an existing MBeanServer.
- [Create an MBeanServer for Stand-Alone Apps or Other Container](#) on page 13
This topic provides instructions for creating an MBean Server for standalone apps or containers.
- [Enable ModelMBean Export in JBoss Containers](#) on page 13
To ensure that MBeans are exported as a model Type, you need to edit the `jmx-invoker-service.xml` file.
- [Step 1 - Set Up Resources to Export ModelMBeans](#) on page 13
This topic provides information about setting up resources for exporting ModelMBeans.
- [Step 2 - Verify Model MBean Export to MBeanServer](#) on page 14
This topic provides information about verifying that the Model MBean exported to the MBeanServer.
- [Step 3 - Verify Service Application Auto-Discovery](#) on page 14
This topic provides information about verifying that your service application was auto-discovered.
- [Step 4 - Configure App Services as an Application](#) on page 14
This topic provides instructions for configuring an application that groups the discovered services for an application.
- [Model MBean Naming and Descriptor Data](#) on page 15
This topic specifies the descriptors that ModelMBeans must expose to enable a vCenter Hyperic agent to discover and manage Java application resources.
- [ModelMBeanInfo Descriptors](#) on page 16
This topic provides information about the ModelMBeanInfo descriptors.

- [ModelMBeanAttributeInfo Descriptors](#) on page 16
This topic provides information about the ModelMBeanAttributeInfo descriptors.
- [ModelMBeanOperationInfo Descriptors](#) on page 19
This topic lists the ModelMBeanOperationInfo Descriptors.

Prerequisites and Supported Environments

This topic specifies requirements for HQ auto-discovery and management for Java application services.

Java Version

Auto-discovery of services exposed as ModelMBeans requires a version 1.5 or later JRE or JDK.

Supported Containers

The capability is supported for applications running in:

- Tomcat v5.5 and later
- WebLogic v9.1 and later
- WebSphere v5.0 and later
- JBoss v3.2 and later.
- SpringSource dm Server v1.0 and later
- SpringSource tc Server v6.0 and later
- Other containers that expose a JSR-160 connector.

Enable Discovery of a Stand-Alone Instrumented Java Application

To enable MBean discovery in a stand-alone Java Application, you must:

- Instrument your code as specified in Model MBean Naming and Descriptor Data, or be using Spring Framework instrumented jar files, and
- Start the application with the `spring.managed.application.name` system property. For example:

```
java -Dcom.sun.management.jmxremote -
  Dspring.managed.application.name="MyApplicationName" com.sample.MyApp
```

The application name will be set as the name of the discovered resource - in this example, `MyApplicationName`.

Creating an MBean Server

The application servers listed in Supported Containers generally have an existing MBeanServer.

If your container does not have an MBeanServer - as is the case with Tomcat if you haven't previously set it up - you must configure one along with a JSR-160 connector.

Create an MBean Server in Tomcat

To monitor applications running on Tomcat, you must have a MBeanServer.

You can create an MBeanServer and associated connector by setting the appropriate system properties at JVM startup.

Procedure

- 1 From the \$TOMCAT_HOME/bin/ directory, open the Tomcat start script `catalina.sh` in a text editor.
- 2 Add the following properties:


```
[ $1!= "stop" ] && JAVA_OPTS="-Dcom.sun.management.jmxremote \
-Dcom.sun.management.jmxremote.port=6969 \
-Dcom.sun.management.jmxremote.ssl=false \
-Dcom.sun.management.jmxremote.authenticate=false $JAVA_OPTS"
export JAVA_OPTS
```
- 3 Save the file.

Create an MBeanServer for Stand-Alone Apps or Other Container

This topic provides instructions for creating an MBean Server for standalone apps or containers.

You can create a MBeanServer for an application than runs standalone or a container.

Procedure

- ◆ Set the following JMX remote system properties in the application or container start script.


```
-Dcom.sun.management.jmxremote \
-Dcom.sun.management.jmxremote.port=6969 \
-Dcom.sun.management.jmxremote.ssl=false \
-Dcom.sun.management.jmxremote.authenticate=false \
```

These system properties create a local MBeanServer and remote connector.

Enable ModelMBean Export in JBoss Containers

To ensure that MBeans are exported as a model Type, you need to edit the `jmx-invoker-service.xml` file.

To ensure that vCenter Hyperic discovers services running in JBOSS:

Procedure

- 1 Open the `JBOSS_HOME/server/default/deploy/jmx-invoker-service.xml` file in a text editor.
- 2 Comment out the following entry:
- 3 Save the file.

Step 1 - Set Up Resources to Export ModelMBeans

This topic provides information about setting up resources for exporting ModelMBeans.

Each Java class or service must instantiate Model MBeans that meet the requirements described in [“Model MBean Naming and Descriptor Data,”](#) on page 15.

NOTE Redeploy your application after enabling export of Model MBeans.

If your applications run with Spring instrumented JARs, they should automatically export Model MBeans with the required name format and descriptors.

If your applications expose MBeans using the Spring 3.0 JMX annotations (`@ManagedResource`, `@ManagedMetric`, `@ManagedAttribute`, `@ManagedOperation`), they should automatically be exported with the required descriptors.

Step 2 - Verify Model MBean Export to MBeanServer

This topic provides information about verifying that the Model MBean exported to the MBeanServer.

To verify that your application services have instantiated ModelMBeans, you can use a JMX client to browse the MBeanServer.

Step 3 - Verify Service Application Auto-Discovery

This topic provides information about verifying that your service application was auto-discovered.

The vCenter Hyperic agent managing the server instance where your application runs should discover Model MBeans in the MBeanServer that meet the requirements specified in [“Model MBean Naming and Descriptor Data,”](#) on page 15.

The server instance that hosts the application will appear in the Auto-Discovery portlet on the Dashboard of the vCenter Hyperic user interface. After you import the new or changed server instance to inventory, you can browse to the application services, which will appear as children of the host server.

Solving Problems with Service Auto-Discovery

If your application services were not discovered, verify that:

- The hosting application server is enabled for remote JMX remote access.
- • The JMX properties (the JMX URL, username, and password) for the server were auto-discovered by the vCenter Hyperic agent, or entered manually, if necessary. If the agent auto-discovered the JMX properties, they appear on the Configuration Properties page for the server instance. If the agent did not discover the JMX properties, an authorized vCenter Hyperic user must specify them on the server instance's Configuration Properties page.

Step 4 - Configure App Services as an Application

This topic provides instructions for configuring an application that groups the discovered services for an application.

Procedure

- 1 In the vCenter Hyperic interface, click **Resources > Browse**.
- 2 From the **Tools** menu, select **Application**.
- 3 Enter a name for the application in the **Name** text box and click **OK**.
- 4 In the Services section of the page, click **Add to List**.

The left column on the Edit page for the application lists all of the services in vCenter Hyperic that you have permission to view. The name of a discovered application service contains the name of the application, as specified in the associated ModelMBean's `ObjectName`. (This is true only if the application name was specified in the `ObjectName`.)

- 5 To filter the list by its application name or another identifying string, enter the string in the **Filter By Name** text box, and click the green arrow.
- 6 Place a checkmark next to each service that belongs to the application, click the right arrow to move the services into the right column, and click **OK** to add selected services to the application.

Model MBean Naming and Descriptor Data

This topic specifies the descriptors that ModelMBeans must expose to enable a vCenter Hyperic agent to discover and manage Java application resources.

Key Facts About ModelMBeans and Service Discovery

- vCenter Hyperic translates ModelMBeanInfo into service metadata, ModelMBeanAttributeInfo into custom property or metric metadata, and ModelMBeanOperationInfo into control action metadata.
- All MBean instances with the same type must have the same attributes, metrics, and operations. If the metadata for a service type changes the type will be updated in vCenter Hyperic and any existing service instances will be deleted and redeployed.
- A service type cannot be deleted from vCenter Hyperic.

ModelMBean ObjectName Format

An ModelMBean's ObjectName must have this format:

```
spring.application:application=%application%,type=%type%,name=%name%*
```

where:

application	(Optional) The name of the application that contains the resource. If defined, forms a portion of the service name in vCenter Hyperic
type	(Required) The vCenter Hyperic service type for the resource. When vCenter Hyperic creates the service to add to inventory, this is the service type it will have. The value of type also forms a portion of the service name in vCenter Hyperic
name	(Required) An identifier that forms a portion of the name of the service in vCenter Hyperic. The service name also includes: name of the platform (machine) where the service runs, value of application if specified, and the vCenter Hyperic server type where the service runs. The order in which these components are concatenated into a name varies by the type of server where the service runs.

For an MBean whose ObjectName is:

```
spring.application:application=swf-booking-mvc,  
type=MessageListener,name=bookingMessageListener
```

the vCenter Hyperic agent creates a service in vCenter Hyperic whose:

- Service type is MessageListener
- Name is Platform Name Apache Tomcat 6.0 swf-booking-mvc bookingMessageListener MessageListener

ModelMBeanInfo Descriptors

This topic provides information about the ModelMBeanInfo descriptors.

Table 1-1. ModelMBeanInfo Descriptors

ModelMBean Field	Description	Type	Requirements	Default Value
ModelMBeanInfo. getDescription()	The friendly description of the service	String	Must not be null	N/A
ModelMBeanInfo. getMBeanDescriptor(). getField("typeName")	If supplied, supplies the service type for the service to be created in vCenter Hyperic, overriding the default value - the value of type from the service's <code>ObjectName</code> .	String	Optional	Value of the type property in the resource's <code>ObjectName</code> .
ModelMBeanInfo. getMBeanDescriptor(). getField("export")	Can be used to prevent the agent from creating a service for the MBean in vCenter Hyperic inventory.	String	Must be set to True or False.	True

ModelMBeanAttributeInfo Descriptors

This topic provides information about the ModelMBeanAttributeInfo descriptors.

The vCenter Hyperic agent interprets ModelMBeanAttributeInfo as property or metric data. If the metricType descriptor is defined, vCenter Hyperic interprets the data as a metric.

An attribute that represents a property must be JMX SimpleType or an array of JMX SimpleTypes.

An attribute that represents a metric must be numeric JMX SimpleType.

Table 1-2. ModelMBeanAttributeInfo Descriptors

ModelMBean Field	Description	Type	Expected Format	Default Value
ModelMBeanAttributeInfo.getDescription()	Description of the property or metric. NOTE In the vCenter Hyperic user interface, a property is identified by its Description.	String	Must not be null	N/A
ModelMBeanAttributeInfo.getDescriptor().getField("metricCategory")	Category of a Metric	String	Allowable values: <ul style="list-style-type: none"> ■ PERFORMANCE - a metric that provides time-related information. For example, average elapsed time per method call. ■ UTILIZATION - a metric that indicates resource usage. For example, memory usage, cache size, thread pool size. ■ THROUGHPUT - a metric that indicates the amount of work done over a period of time. For example, transactions per second. 	UTILIZATION
ModelMBeanAttributeInfo.getDescriptor().getField("displayName")	Name that uniquely identifies the metric for a service type.	String	This value is used to uniquely identify the metric per service type.	Defaults to the name of the ModelMBean attribute.
getDescriptor().getField("indicator")	Designates a metric as an Indicator in vCenter Hyperic. Indicators are presented on a resource's Indicator page in vCenter Hyperic.	String	If set to true, the metric is an Indicator, and is collected by default.	True

Table 1-2. ModelMBeanAttributeInfo Descriptors (Continued)

ModelMBean Field	Description	Type	Expected Format	Default Value
ModelMBeanAttributeInfo.getDescriptor().getField("metricType")	<p>Indicates how the value of the metric changes over time.</p> <p>The presence of this field indicates the MBeanAttribute is a metric. If not set, the attribute will be considered a custom property.</p> <p>vCenter Hyperic sets the collection interval for a metric based on the value of metricType.</p> <p>Counter metrics are collected every 10 minutes.</p> <p>Gauge metrics are collected every 5 minutes.</p>	String	<p>The JMX specification requires metricType have a value of either:</p> <ul style="list-style-type: none"> ■ counter - a metric whose value does not decrease unless it is reset to a starting value. "Number of requests received" is an example of a counter metric. Counter metrics usually have a positive integer value. ■ gauge - a metric whose value can either increase or decrease. "Cache Hit Rate" is an example of a gauge metric. 	Gauge
ModelMBeanAttributeInfo.getDescriptor().getField("units")	The unit in which an metric is measured.	String	<p>Hyperic specifies these allowable values:</p> <ul style="list-style-type: none"> ■ B- Bytes ■ KB - Kilobytes ■ MB - Megabytes ■ GB - Gigabytes ■ TB - Terabytes ■ epoch-millis - Time since January 1, 1970 in milliseconds. ■ epoch-seconds - Time since January 1, 1970 in seconds. ■ mu - Microseconds ■ MS - Milliseconds. ■ jiffys - Jiffies (1/100 sec) ■ s - Seconds. ■ cents - Cents (1/100 of 1 US Dollar) 	None, if not specified or if set to an unrecognized unit.

ModelMBeanOperationInfo Descriptors

This topic lists the ModelMBeanOperationInfo Descriptors.

ModelMBean Operation return values and parameters should be JMX SimpleType or arrays of JMX SimpleTypes.

Table 1-3. ModelMBeanOperationInfo Descriptors

ModelMBean Field	Description	Types	Expected Format	Default Value
ModelMBeanOperationInfo.getDescription()	The friendly description of the Operation	String	Must not be null.	N/A

Configuring a tc Server Instance

This section provides information about configuring a tc Server instance.

The features described in this section are available in tc Server and tc Server Standard Edition.

This chapter includes the following topics:

- [“Configure tc Runtime Parameters,”](#) on page 21
- [“Managing tc Server Applications,”](#) on page 29
- [“Managing tc Runtime JDBC Reference Parameters,”](#) on page 40
- [“Managing tc Runtime Services Reference Parameters,”](#) on page 43
- [“SpringSource tc Runtime 6.0 server,”](#) on page 48
- [“SpringSource tc Runtime 7.0 server,”](#) on page 58

Configure tc Runtime Parameters

This topic provides instructions about configuring the tc runtime parameters using the Server Configurations page.

To navigate to the Server Configuration pages of a tc Runtime instance:

- [Making Configuration Changes](#) on page 23
vCenter Hyperic populates the fields of the tc Runtime configuration pages from the its configuration files.
- [User Permissions Required to Use the tc Runtime Features](#) on page 23
This topic describes the permissions required to make changes to the tc Runtime features.
- [Configure General tc Runtime Options](#) on page 24
The main tc Runtime configuration page includes options to change the Shutdown Port and Shutdown Command.
- [Configure Startup Options](#) on page 24
The page for configuring tc Runtime Start settings includes options for configuring the JVM where the instance runs, including minimum and maximum heap size, garbage collection, and debugging options.
- [Configuring the Context Container](#) on page 25
Use this page to configure the context for every Web application deployed to this tc Runtime instance.
- [Configuring Static Content Defaults](#) on page 25
Use this page to configure the behavior of static content in Web applications that run on tc Runtime.

- [Using the Advanced Server Configuration Options](#) on page 26
This topic provides information about Advanced Server configuration options.
- [Reload Settings From Server](#) on page 26
This topic provides instructions for reloading settings from the server.
- [Revert to a Previously Saved Configuration](#) on page 26
Each time you push changes from the vCenter Hyperic user interface to the tc Runtime configuration files, the tc Server plugin makes a timestamped backup copy of the previous configuration before overwriting the relevant configuration file
- [Upload a Configuration File](#) on page 26
This topic provides instructions for uploading a configuration file.
- [Configure and Create JDBC Data Sources](#) on page 27
JDBC datasources make it easy for a user to access data in a database server.
- [Configure and Create tc Runtime Services](#) on page 28
A tc Runtime service represents the combination of one or more connector components that share a single engine component for processing incoming requests.
- [Configure and Create Connectors](#) on page 28
Connectors represent the interface between external clients sending requests to (and receiving responses from) a particular tc Runtime service.
- [Configure and Create Virtual Hosts](#) on page 29
A tc Runtime host represents a virtual host, which is an association of a network name for a server (such as "www.mycompany.com") with the particular computer which hosts the tc Runtime instance.
- [Configure tc Runtime Logging](#) on page 29
Use this page to configure the logging system for the current engine. Note that you can also configure logging for a host by configuring the specific Host component.

Procedure

- 1 In the vCenter Hyperic user interface, select **Resources > Browse**.
- 2 Click the **Servers** link to list all the tc Runtime instances in inventory.
tc Runtime instances have the server type SpringSource tc Runtime VersionNumber and Apache Tomcat instances have the server type Tomcat X.X.
- 3 Click the name of the tc Runtime instance to which you want to navigate.
- 4 Click **Views > Server Configuration**.
There are four tc Runtime configuration pages, three of which have their own tab beneath the main Views > Server Configuration tab:
 - Configuration - Configure general tc Runtime options, such as JVM options, JSP behavior, and default options for static content.
 - Resources - Create, configure, and delete JDBC data sources.
 - Services - Configure the default Catalina service, and create new ones. A tc Runtime service groups together one or more connectors and a single engine. The engine, in turn, groups together one or more virtual hosts.

The Advanced section provides links for reloading, reverting, and uploading server configurations.

Making Configuration Changes

vCenter Hyperic populates the fields of the tc Runtime configuration pages from the its configuration files.

The files include:

- `conf/server.xml`
- `conf/context.xml`
- `conf/web.xml`
- `bin/setenv.sh`
- `conf/catalina.properties`
- `conf/logging.properties`

Each configuration page includes a Save button for saving the changes made in the user interface to the tc Runtime configuration files. If you try to navigate to a different page without saving any of your updates, vCenter Hyperic asks you if you want to leave the page and lose these updates.

When you save your changes, a window labeled Changes have been made locally is displayed until you either

- Click **Push**- this writes the configuration changes you have made to the appropriate tc Runtime configuration file (such as `server.xml`). If you push the changes, vCenter Hyperic overwrites existing configuration, saving a backup of the overwritten configuration. Most saved changes to the tc Runtime configuration require a server restart to take effect; vCenter Hyperic flags these cases and provides a link to easily restart the tc Runtime.
- Click **Undo** - this reverts all changes that have been made since the last push or undo.

If you update tc Runtime configuration settings from the vCenter Hyperic user interface, do not manually update the tc Runtime configuration files at the same time. vCenter Hyperic clears its local memory and reloads the configuration files upon certain events, not continuously.

User Permissions Required to Use the tc Runtime Features

This topic describes the permissions required to make changes to the tc Runtime features.

The vCenter Hyperic super-user can use all the tc Runtime features of the HQ UI. If, however, you log on to the vCenter Hyperic user interface as a non-super-user, then that user must have certain permissions to be able to use the tc Runtime features.

In vCenter Hyperic, users are assigned roles, which in turn are assigned permissions, such as View and Control.

The following table describes the additional effects that some of the permissions have on the tc Runtime features. Use this table to determine which role you should assign a user that will be managing tc Runtime instances.

Table 2-1. vCenter Hyperic Roles and Permissions

Permission	Additional Effect on tc Server HQ Plugin Features
View	<p>Allows the user to:</p> <ul style="list-style-type: none"> ■ View the deployed Web applications in the Views > Application Management tab ■ View the current configuration of a tc Runtime instance in the Views > Server Configuration tab.
Modify	<p>Allows the user to:</p> <ul style="list-style-type: none"> ■ Use the application lifecycle commands of the Views > Application Management tab to start, stop, reload, or undeploy a Web application. ■ Update the fields in the Views > Server Configuration tab and then push the data to the configuration files associated with the tc Runtime instance, such as server.xml.
Control	<p>Allows the user to use the commands in the Control tab to start, stop, and restart a tc Runtime instance.</p>

Configure General tc Runtime Options

The main tc Runtime configuration page includes options to change the Shutdown Port and Shutdown Command.

Procedure

- 1 Navigate to the configuration pages for the tc Runtime instance.
- 2 Click the **Configuration** tab.
- 3 Click the **General** link in the list on the left.
- 4 Make your changes.
- 5 Click **Save**.

A message indicates that your changes were successfully saved.

What to do next

To write your changes to the tc Runtime configuration files, click **Push** in the Changes have been made locally window. For more information, see [“Making Configuration Changes,”](#) on page 23.

Configure Startup Options

The page for configuring tc Runtime Start settings includes options for configuring the JVM where the instance runs, including minimum and maximum heap size, garbage collection, and debugging options.

NOTE HQ populates the tc Runtime Start page with information from the CATALINA_HOME/bin/setenv.sh file of the server instance you are configuring (specifically the JVM_OPTS environment variable.) If you have not set the JVM_OPTS environment variable in this file, then the fields in the Server Start page will be blank.

The page allows you to add your own command line arguments to the JVM; be careful using this option because vCenter Hyperic does not validate the options but simply adds them to the Java command that starts the tc Runtime instance. If you enter them incorrectly, you will get an error starting the tc Runtime instance.

Procedure

- 1 Navigate to the tc Runtime configuration pages.
- 2 Click the **Configuration** tab.
- 3 Click the **Server Start** link in the list on the left.
- 4 Make your changes.
- 5 To add your own JVM command line arguments, click the **Advanced** link at the bottom and enter them in the form "-Xoptionvalue or -XX:option=value", separating options with a space.
- 6 Click **Save**.

A message indicates that your changes were successfully saved.

What to do next

To write your changes to the tc Runtime configuration files, click **Push** in the Changes have been made locally window. For more information, see [“Making Configuration Changes,”](#) on page 23.

Configuring the Context Container

Use this page to configure the context for every Web application deployed to this tc Runtime instance.

Procedure

- 1 Navigate to the configuration pages for the tc Runtime instance.
- 2 Click the **Configuration** tab.
- 3 Click the **Context Container** link in the list on the left.
- 4 Make your changes.
- 5 Click **Save**.

A message indicates that your changes were successfully saved.

What to do next

To write your changes to the tc Runtime configuration files, click **Push** in the Changes have been made locally window. For more information, see [“Making Configuration Changes,”](#) on page 23.

Configuring Static Content Defaults

Use this page to configure the behavior of static content in Web applications that run on tc Runtime.

Procedure

- 1 Navigate to the configuration pages for the tc Runtime instance.
- 2 Click the **Configuration** tab.
- 3 Click the **Server Defaults: Static Content** link in the list on the left.
- 4 Make your changes.
- 5 Click **Save**.

A message indicates that your changes were successfully saved.

What to do next

To write your changes to the tc Runtime configuration files, click **Push** in the Changes have been made locally window. For more information, see [“Making Configuration Changes,”](#) on page 23.

Using the Advanced Server Configuration Options

This topic provides information about Advanced Server configuration options.

The Advanced section of the main **Server Configuration** tab includes options for reverting or reloading configuration values in the event you do not want to save any of the recent updates you have made using the vCenter Hyperic user interface. The Advanced section also includes an option to upload a local configuration file in its entirety, such as server.xml. The following sections provide more information about these options.

SpringSource recommends that you use these options with caution.

Reload Settings From Server

This topic provides instructions for reloading settings from the server.

To undo any changes you made using the vCenter Hyperic user interface:

Procedure

- ◆ Click the **Reload Settings From Server** link to reload the server configuration currently contained in the tc Runtime configuration files.

All local changes to the tc Runtime instance that you have not yet pushed to the instance are lost.

Revert to a Previously Saved Configuration

Each time you push changes from the vCenter Hyperic user interface to the tc Runtime configuration files, the tc Server plugin makes a timestamped backup copy of the previous configuration before overwriting the relevant configuration file.

With this option, you can revert back to the most recent backup copy in the event that there was a problem with the most recent changes that you pushed. As with reloading the current configuration, if you revert to a backup copy, any local changes to the tc Runtime instance made using the user interface will be lost.

If you have never pushed configuration changes from the user interface to the tc Runtime instance, then no backup file will exist to which the tc Server plugin can revert. In this case, if you try to revert, you will get an error.

Procedure

- ◆ Click the **Revert To a Previously Saved Configuration** link if you want to revert to the most recent backup copy of the tc Runtime configuration.

Upload a Configuration File

This topic provides instructions for uploading a configuration file.

Procedure

- 1 Click the **Upload a Configuration File** link to upload a local configuration file and copy it to the appropriate tc Runtime instance directory.
- 2 Use the **Configuration File** drop-down list to specify the type of configuration file you are going to upload.

- 3 Use the **Browse** button to browse for the file on your local computer.

The tc Server plugin makes a timestamped backup copy of the current configuration file before it overwrites it with the one you uploaded. This means that you can revert to the backup copy in the event that you do not want to use the uploaded configuration file for some reason.

Configure and Create JDBC Data Sources

JDBC datasources make it easy for a user to access data in a database server.

A datasource defines a pool of JDBC connections which in turn connect to a specific database using a specified URL, username, and so on. Use this page to create and configure configure datasources.

You can create two types of JDBC data sources:

- **Database Connection Pool (DBCP) Datasource** - The DBCP Datasource is the standard datasource provided by tc Runtime that uses the commons-dbc package. Although this datasource is adequate for simple applications, it is single-threaded which means that in order to be thread-safe, tc Runtime must lock the entire pool, even during query validation. Thus it is not suitable for highly concurrent environments. Additionally, it can be slow, which in turn can negatively affect the performance of Web applications.
- **Tomcat Datasource** — The Tomcat Datasource includes all the functionality of the DBCP datasource, but adds additional features to support highly-concurrent environments and multiple core/cpu systems. The Tomcat datasource typically performs much better than the DBCP datasource.

Additional features include:

- **Dynamic implementation of the interfaces**, which means that the datasource supports the `java.sql` and `javax.sql` interfaces for your runtime environment (as long as your JDBC driver supports it), even when compiled with a lower version of the JDK.
- **Validation intervals** so that tc Runtime doesn't have to validate every single time the application uses the connection, which improves performance.
- **Run-Once query**, which is a configurable query that the tc Runtime instance runs only once when the connection to the database is established. This is very useful to setup session settings that you want to exist during the entire time the connection is established.
- **Ability to configure custom interceptors** to enhance the functionality of the datasource. You can use interceptors to gather query stats, cache session states, reconnect the connection upon failures, retry queries, cache query results, and so on. The interceptors are dynamic and not tied to a JDK version of a `java.sql/javax.sql` interface.
- **Asynchronous connection retrieval** - you can queue your request for a connection and receive a Future back.

To create a new JDBC datasource, or edit an existing one:

Procedure

- 1 Navigate to the tc Runtime configuration pages.
- 2 Click the **Resources** tab.
- 3 Click the **JDBC Data Sources** link in the list on the left.
- 4 If you want to edit an existing data source, click its name in the table and make your changes. If you want to create a new one, click the **Create a New Tomcat/DBCP Data Source** link.
- 5 Click **Save**.

A message indicates that your changes were successfully saved.

What to do next

To write your changes to the tc Runtime configuration files, click **Push** in the Changes have been made locally window. For more information, see [“Making Configuration Changes,”](#) on page 23.

Configure and Create tc Runtime Services

A tc Runtime service represents the combination of one or more connector components that share a single engine component for processing incoming requests.

A tc Runtime instance can have one or more services configured. The default service is catalina.

Procedure

- 1 Navigate to the tc Runtime configuration pages.
- 2 Click the **Services** tab.
- 3 If you want to edit an existing service, such as the default "catalina" service, click its name in the table and then configure, or add, the following components of the service:
 - Connectors
 - Engine
 - Virtual Host
 - Logging System
- 4 If you want to create a new service, click the **New Service** link.
- 5 Click **Save**.

A message indicates that your changes were successfully saved.

Configure and Create Connectors

Connectors represent the interface between external clients sending requests to (and receiving responses from) a particular tc Runtime service.

A tc Runtime instance can have one or more connectors, one for each supported message protocol. The default connector, configured for each tc Runtime, is the HTTP connector.

Use this page to configure, or create new, connectors for the current tc Runtime service.

Procedure

- 1 Navigate to the tc Runtime configuration pages.
- 2 Click the **Services** tab.
- 3 In the **Services** table, click the name of the service for which you want to configure or create a connector.
- 4 Click the Connectors link in the list on the left.
- 5 If you want to edit an existing connector, click its name in the table and make your changes. If you want to create a new one, click the **New AJP Connector** or **New HTTP(S) Connector** link, depending on the type of connector you want to create.
- 6 Click **Save**.

A message indicates that your changes were successfully saved.

Configure and Create Virtual Hosts

A tc Runtime host represents a virtual host, which is an association of a network name for a server (such as "www.mycompany.com") with the particular computer which hosts the tc Runtime instance.

To be effective, this name must be registered in the Domain Name Service (DNS) server that manages your Internet domain. Use this page to configure, or create new, virtual hosts for the current tc Runtime service.

Procedure

- 1 Navigate to the tc Runtime configuration pages.
- 2 Click the **Services** tab.
- 3 In the **Services** table, click the name of the service for which you want to configure or create a virtual host.
- 4 Click the **Hosts** link in the list on the left.
 - If you want to edit an existing host, click its name in the table and make your changes.
 - If you want to create a new one, click the **New Host** link.
- 5 Click **Save**.

A message indicates that your changes were successfully saved.

Configure tc Runtime Logging

Use this page to configure the logging system for the current engine. Note that you can also configure logging for a host by configuring the specific Host component.

Procedure

- 1 Navigate to the tc Runtime configuration pages.
- 2 Click the **Services** tab.
- 3 In the **Services** table, click the name of the service for which you want to configure logging.
- 4 Click the **Logging** link in the list on the left.
- 5 Make your changes in the table.
- 6 Click **Save**.

A message indicates that your changes were successfully saved.

Managing tc Server Applications

This page describes the tc Server Application Management view in the user interface that is enabled by the tc Server user interface plugin. This page is present only if you have the plugin.

The Application Management page, available when a tc Runtime instance or a group of tc Runtime instances is selected, enables an authorized user to manage applications deployed that server instance or group.

The vCenter Hyperic super-user can use all the tc Runtime Application Management features of the user interface. If, however, you log on to the user interface as a non-super-user, then that user must have certain permissions to be able to use the tc Runtime features.

NOTE An HQ group is not equivalent or similar to a tc Runtime cluster.

An vCenter Hyperic group is a set of other managed resources. An authorized user can create a group and assign resources to it. A group whose members are all of the same resource type is referred to as a compatible group. You can manage and monitor the resources in a compatible group at the group level. Grouping tc Runtime instances allows you manage applications across multiple tc Runtime instances.

A tc Runtime cluster enables session replication. Clustering behavior is defined in a tc Runtime instance's `server.xml` file.

- [Navigate to a tc Runtime Instance Or Group](#) on page 30
This topic provides instructions for navigating to the Application Management page of a tc Runtime instance or group.
- [Create tc Runtime Groups](#) on page 31
Grouping tc Runtime instances eases the process of managing server instances and applications.
- [Listing Applications](#) on page 31
This topic provides information about listing applications.
- [Deploying Applications](#) on page 31
Deploying an application is the process of uploading it to tc Runtime and making it available to users.
- [Undeploy an Application](#) on page 32
Undeploying an application removes it from the tc Runtime instance or group.
- [Start an Application](#) on page 32
Starting an application makes it available to users. You must have previously deployed the application to be able to start it.
- [Stop an Application](#) on page 33
Stopping an application makes it unavailable to users.
- [Reload an Application](#) on page 33
When you reload an existing application, it shuts itself down and then reloads itself.
- [Managing tc Server Configuration](#) on page 33
This section provides information about the tc server configuration parameters.

Navigate to a tc Runtime Instance Or Group

This topic provides instructions for navigating to the Application Management page of a tc Runtime instance or group.

Procedure

- 1 Click **Resources > Browse** at the top of the vCenter HypericDashboard.
 - To browse to a server instance, click **Servers** to view a list of the servers to which you have access. tc Runtime instances have the server type SpringSource tc Runtime 6.0. Apache Tomcat server instances have the server type Tomcat X.X.
 - To browse to a group of servers, click **Compatible Groups/Clusters** to view a list all the compatible groups to which you have access. Groups of tc Runtime have the type SpringSource tc Runtime 6.0.
- 2 In the table, click the name of the tc Runtime instance or group to which you want to navigate.

- 3 Click **Views > Application Management**.

Create tc Runtime Groups

Grouping tc Runtime instances eases the process of managing server instances and applications.

For example, you can deploy an application to group of tc Runtime with a single command, instead of deploying to each instance individually. To create a group of tc Runtime instances:

Procedure

- 1 Click **Resources > Browse** at the top of the vCenter HypericDashboard.
- 2 Click **Servers** to view a list of the servers to which you have access. tc Runtime instances have the server type SpringSource tc Runtime 6.0. Apache Tomcat server instances have the server type Tomcat X.X.
- 3 Select the checkbox to the left of each tc Runtime instance you want to include in the new group.
- 4 Click **Group**.
- 5 Provide a name and description for the group.
- 6 Click **OK**.

Listing Applications

This topic provides information about listing applications.

Deployed applications are listed in the Deployed Applications section of the Application Management page for a server instance or group. For a group, the table lists all applications deployed to all servers in the group. The table shows:

- **Status** — The state of the application as either Running or Stopped. For a group of servers:
 - Running or Stopped indicates that all instances of the application on all servers in the group have that state.
 - A numeric value indicates the number of servers upon which the application's state is Running.
- **Sessions** — The number of current active sessions for the application.
- **Revision** — Current revision of the application. vCenter Hyperic creates a new revision each time you deploy an application that uses an existing context path.

Only applications on running tc Runtime instances appear. vCenter Hyperic returns an error for application hosts that are not running.

Deploying Applications

Deploying an application is the process of uploading it to tc Runtime and making it available to users.

You can deploy an application to a single tc Runtime instance or to a group of tc Runtime instances. If you deploy to a group, the application will be deployed to each of tc Runtime instance in that group, enabling users to run the application from any of the tc Runtime instances in the group.

You can deploy an application from a WAR file located:

- on your local file system (on the the same machine as the browser you are using to connect to vCenter Hypericweb user interface), or
- on the computer on which the tc Runtime resource is running.

Whether the WAR file is local or remote, you can either enter a new context path (string that uniquely identifies the Web application in the URL used to invoke it), or use the default value, which is the name of the WAR file, without the ".war" extension.

Procedure

- 1 Navigate to the Application Management page for a tc Runtime instance or group.
- 2 Depending on the location of the WAR file for the application, either:
 - Click **Browse** in the Deploy Application From Local Machine section to browse to the file's location.
 - Enter the full path to the WAR file on the computer hosting the tc Runtime resource in the Deploy Application from Server Machine section.
- 3 As desired, enter a context path in the **Context** path text box.
- 4 (Optional) Select the **Use cold deployment strategy** checkbox if you want the tc Runtime instance to shutdown, deploy the application, and then start up again.

 By default (if the box is cleared), the tc Runtime instance hot-deploys the application, which means it does not shutdown then restart but simply deploys the application while the instance is still running. Use the cold deployment strategy if you want to avoid common hot deployment errors, such as running out of PermGen space. The PermGen space holds the metadata about classes that have been loaded/created in the JVM.
- 5 Click **Upload and Deploy** or **Deploy**, whichever is appropriate.

See the Results of the last operation section for details about the result of deploying the application. When you deploy an application to tc Runtime, the application is started.

Undeploy an Application

Undeploying an application removes it from the tc Runtime instance or group.

If you want to temporarily prevent users from access an application, stop it rather than undeploy it. For more information, see [“Stop an Application,”](#) on page 33

Procedure

- 1 Navigate to the application management page of a tc Runtime instance or group.
- 2 In the Deployed Applications section, select the checkbox to the far-left of the application(s) you want to undeploy.
- 3 Click **Undeploy**.

 vCenter Hyperic removes the application from the list of deployed applications.

See the Results of the last operation section for details about the results of undeploying the application.

Start an Application

Starting an application makes it available to users. You must have previously deployed the application to be able to start it.

Procedure

- 1 Navigate to the application management page of a tc Runtime instance or group.
- 2 In the Deployed Applications section, select the checkbox to the far-left of the application(s) you want to start.
- 3 Click **Start**.

The status of the application changes to Running.

Stop an Application

Stopping an application makes it unavailable to users.

Procedure

- 1 Navigate to the application management page of a tc Runtime instance or group.
- 2 In the Deployed Applications section, select the checkbox to the far-left of the application(s) you want to start.
- 3 Click **Stop**.

The status of the application changes to Stopped.

Reload an Application

When you reload an existing application, it shuts itself down and then reloads itself.

Procedure

- 1 Navigate to the application management page of a tc Runtime instance or group.
- 2 In the Deployed Applications section, select the checkbox to the far-left of the application(s) you want to start.
- 3 Click **Reload**.

The status of the application changes to Running.

Managing tc Server Configuration

This section provides information about the tc server configuration parameters.

Access tc Server Configuration Parameters

This topic provides instructions for accessing the tc server configuration parameters.

To configure a tc Runtime instance:

Procedure

- ◆ Select **Views > Server Configuration > Configuration**.

tc Server General Configuration Parameters

This topic lists the parameters in the General Configuration section.

Table 2-2. Server Properties

Field Name	Description
Shutdown Port	The TCP/IP port where the tc Runtime instance listens for a shutdown command. The connection must be initiated from the same server computer that is running this instance of tc Runtime. Valid values are -1, 1, 2, ... up to 65535. With the default setting, -1, no shutdown port is enabled, so that the only way the server instance can be shut down is by a local kill statement to the server process.
Shutdown Command	The command to issue via a TCP/IP connection to the Shutdown Port to shut down tc Runtime.

JMX Listener

The JMX Listener section configures the component of the tc Runtime instance that listens for Java Management Extensions (JMX) connections from management tools, such as the vCenter Hyperic agent. By default, tc Runtime enables JMX connectivity.

Table 2-3. JMX Listener Properties

Field Name	Description
Enabled	Specifies whether the tc Runtime instance's pre-configured JMX listener is enabled. NOTE The vCenter Hyperic agent uses JMX to connect to tc Runtime, so if you disable the JMX listener, you will not be able to configure tc Runtime instances or groups from the vCenter Hyperic user interface, unless you configure JMX for tc Runtime through some other mechanism.
Port	Specifies the port upon which tc Runtime listens for JMX/RMI connections. Specify a port number that is not in use by another process.
IP Address	Specifies the IP address upon which tc Runtime listens for JMX/RMI connections. If the IP address is on the same as the tc Runtime instance, you can enter 127.0.0.1.
Protocols	Specifies a comma-separated list of enabled SSL/TLS protocols. If you do not enter a value for this property, the default protocols are enabled.
Authenticate	Specifies if tc Runtime authenticates users that connect to the server using the JMX port. If you enable this field, tc Runtime looks up the user and password in the files specified by the Access File and Password File fields, respectively; if tc Runtime finds the username and password in the files, then the user is authenticated and allowed JMX access. If you disable this property, all users may access tc Runtime via JMX. You configure the JMX user and password in Hyperic on server instances the Inventory > Configuration Properties page. The default JMX user and password is configured by default when you install tc Server; if, however, you change the name or password of the user in the access and password files, you must also change the configured user/password in the vCenter Hyperic user interface.

Table 2-3. JMX Listener Properties (Continued)

Field Name	Description
Access File	<p>Specifies the full pathname of the tc Runtime file that contains the list of users allowed to access tc Runtime using JMX. This file is on the computer that hosts the tc Runtime instance, not the computer that hosts the vCenter Hyperic server. The access file contains one line per user; each line contains a username and permission level:</p> <ul style="list-style-type: none"> ■ readonly - user can only view tc Runtime configuration ■ readwrite - user can view and modify tc Runtime configuration. The default name for the access file is <code>jmxremote.access</code>. <p>; the default location is the CATALINA_BASE/conf directory of the tc Runtime instance. Each tc Runtime instance is configured by default with an "admin" user with readwrite permission.</p>
Password File	<p>Specifies the full pathname of the tc Runtime file that contains passwords for the users listed in the access file. The password file contains one line for each user listed in the access file; each line contains a username and password. The default name for the password file is <code>jmxremote.password</code>.</p> <p>The default location is the CATALINA_BASE/conf directory of the tc Runtime instance. The password for the pre-configured admin user is <code>springsource</code>.</p>
Use SSL	<p>Specifies whether to use secure sockets layer (SSL) for users' JMX connections to tc Runtime.</p> <p>To use SSL, you must first set up a digital certificate on the computer that hosts the tc Runtime instance and then configure the SSL settings on this page. You can use the command-line utility <code>keytool</code> to manage digital certificates.</p>
Client Authentication	<p>Specifies whether client authentication is required when using SSL.</p> <p>If you enable this property, tc Runtime authenticates JMX/SSL clients using certificate authentication rather than file-based authentication; this means that tc Runtime must find the client's certificate in its truststore or it will deny the client JMX access. This implies that only clients with known SSL certificates are allowed access to tc Runtime.</p>
Use JDK Client Factory	<p>Specifies whether or not the vCenter Hyperic agent uses the required client libraries from the JDK. The required libraries are used to pass SSL-specific properties (such as the trust store and password) to the tc Runtime instance. If you disable this property, you must manually set up the vCenter Hyperic agent's CLASSPATH to find these client libraries.</p>
Cipher Suites	<p>Specifies a comma-separated list of enabled SSL/TLS cipher suites. A cipher suite is a combination of cryptographic parameters that define the security algorithms and key sizes used for authentication, key agreement, encryption, and integrity protection.</p> <p>If you do not enter a value for this property, the default cipher suites are enabled.</p>

Table 2-3. JMX Listener Properties (Continued)

Field Name	Description
Trustore File	Specifies the full pathname of the truststore file used by SSL. A truststore is a special kind of keystore file that is used when making decisions about what to trust. If you receive some data from an entity that you already trust, and if you can verify that the entity is the one it claims to be, then you can assume that the data came from that entity. This means that the key of a truststore file typically contains an entity's identity and a public key, as opposed to a private key contained in a more restricted keystore file.
Trustore Pass	Specifies the password used to access the truststore file.
Keystore File	Specifies the full pathname of the keystore file. A keystore is a database of key material. Key material is used for a variety of purposes, including authentication and data integrity. There are various types of keystores available, including "PKCS12" and Sun's "JKS." Typically, the key of a keystore consists of an entity's identity and its private key.
Keystore Pass	Specifies the password used to access the keystore file.

Server Start Configuration Parameters

The fields in this section are populated by vCenter Hyperic with information from the CATALINA_HOME/bin/setenv.sh file of the tc Runtime instance you are configuring.

If for some reason setenv.sh does not exist, or does not define JVM_OPTS, the Server Start fields will be blank. Edits you make to **Server Start** fields in the vCenter Hyperic user interface are written back to setenv.sh.

Table 2-4. General Parameters

Field Name	Description
Java Home	Specifies the full pathname to the JDK or JRE used by the tc Runtime instance.
Use Server Hotspot VM	Check to use the Java HotSpot Virtual Machine.
Min Heap Size	Specifies the initial size, in MB, of the memory allocation pool.
Max Heap Size	Specifies the maximum size, in MB, of the memory allocation pool.
Thread Stack Size	Specifies the amount of memory, in KB, allocated to a single JVM thread.

Sun Specific JVM Options

The options in the following table are specific to Sun JVMs. Modify the option values with caution. If you use a non-Sun VM, altering the values might have unintended side effects.

Table 2-5. Sun Specific JVM Parameters

Field Name	Description
Memory	
Min Young Generation Size	Specifies the default size, in MB, of new generation.
Max Young Generation Size	Specifies the maximum size, in MB, of new generation.

Table 2-5. Sun Specific JVM Parameters (Continued)

Field Name	Description
Min Perm Gen Size	Specifies the initial size, in MB, of the permanent generation.
Max Perm Gen Size	Specifies the maximum size, in MB, of the permanent generation.
Garbage Collection	
Max GC Pause	Sends a hint to the virtual machine that pause times of the specified milliseconds or less are desired. The VM will adjust the Java heap size and other GC-related parameters in an attempt to keep GC-induced pauses shorter than the specified value. NOTE This may cause the VM to reduce overall throughput, and in some cases the VM will not be able to meet the desired pause time goal.
Max GC Minor Pause	Similar to Max GC Pause, but for minor pauses.
Debug	
Heap Dump on Out of Memory Error	Directs the JVM to generate a heap dump when an allocation from the Java heap or the permanent generation cannot be satisfied.
Print Message at GC	Specifies whether the JVM should print messages to the GC log file every time it performs a garbage collection.
Print Heap at GC	Specifies whether the JVM should print detailed information, including heap occupancy before and after a garbage collection, to the GC log file.
Print GC Application Stopped Time	Specifies whether the JVM should print the amount of time an application is stopped during a garbage collection to the GC log file.
Print GC Timestamps	Specifies whether the JVM should print timestamps relating to garbage collection to the GC log file.
Print GC Details	Specifies whether the JVM should print detailed information relating to garbage collection to the GC log file.
GC Log File	Specifies the name of the GC log file to which all garbage collection information is printed. Default value is CATALINA_BASE/logs/gc.log.

Advanced Parameters

Table 2-6. Advanced Parameters

Field Name	Description
Command Line Arguments	Enter additional options to the CATALINA_OPTS environment variables if they are not available as text fields on this configuration page. Use one of these forms with a space between options: <ul style="list-style-type: none"> ■ -XOptionValue ■ -XX:Option=Value For example: -Xms512M -Xmx512M -XX:NewSize=128M

Context Container Parameters

The fields described in the following table configure the context for every Web application deployed to this tc Runtime instance. vCenter Hyperic loads and updates the values from the CATALINA_BASE/conf/context.xml file for this tc Runtime instance.

Table 2-7. Context Container Parameters

Field Names	Description
Static Resource Cache	
Allow Caching	If checked, specifies that tc Runtime uses the cache for static resources.
Max Cache Size	Maximum size, in KB, of the static resource cache. Default value is 10240 (10 megabytes).
Cache TTL	Amount of time, in milliseconds, between cache entries revalidation. Default value is 5000 (5 seconds).
Web Application Logger	
Swallow Output	If checked, specifies that tc Runtime will redirect the bytes outputted by the Web application to System.out and System.err to the Web application logger.

Server Defaults - JSP

The fields described in the following table configure JSP-related init params for every Web application deployed to this tc Runtime instance. vCenter Hyperic loads and updates the values from the CATALINA_BASE/conf/web.xml file for this tc Runtime instance.

Table 2-8. Server Defaults - JSP Parameters

Field Names	Description
Recompile Check Interval (s)	Specifies the interval, in seconds, at which tc Runtime checks to see if a JSP and its dependent file need to be recompiled. Default value is 0. If you set this field to a value greater than zero, and Development Mode is unchecked, then tc Runtime performs the compilation in the background.
Development Mode	Specifies that tc Runtime is working in development mode. When this value is checked, you can specify the frequency at which JSPs are checked for modification using the Modification Test Interval field.
Modification Test Interval (s)	Specifies the interval, in seconds, that tc Runtime should wait before checking JSPs and their dependent files for modifications. If you set this field to 0, then tc Runtime checks the JSPs every time they are accessed. Default value is 4 seconds. This feature is enabled only when Development Mode is checked.
Compiler	Specifies the JSPs compiler used by tc Runtime. If not set, then tc Runtime uses the default Eclipse JDT Java compiler.
Compiler Target VM	Specifies the JDK version with which the generated files are compatible. Default value is JDK 1.4.
Compiler Source VM	Specifies the JDK version with which the source files are compatible. Default value is JDK 1.4
Compile Class With Debug Information	Specifies whether the JSP class should be compiled with debug information.
Classpath	Specifies the CLASSPATH that tc Runtime should use when compiling the generated servlets. tc Runtime creates the default CLASSPATH dynamically based on the current Web application.
Fork JSP Page Compile to Separate JVM	Specifies whether tc Runtime should fork the compilation of JSPs so they are performed in a separate JVM than tc Runtime .

Table 2-8. Server Defaults - JSP Parameters (Continued)

Field Names	Description
Enable Tag Handler Pooling	Enables tag handler pooling.
Internet Explorer class-id for <jsp:plugin> Tags	Specifies the class-id value that tc Runtime sends to Internet Explorer when using the tags. Default value is clsid:8AD9C840-044E-11D1-B3E9-00805F499D93.
Java File Encoding	Specifies the Java file encoding to use for generating Java source files. Default value is UTF8.
Keep Generated Source Code	Specifies whether tc Runtime should keep the generated source code for each page rather than deleting it.
Generate One Print Statement Per Input Line	Specifies whether tc Runtime should generate static content with one print statement per input line, to ease debugging.
Trim Spaces In Template Text	Specifies whether tc Runtime should trim white spaces in template text between actions or directives.
Suppress SMAP Information	Specifies whether tc Runtime should suppress the generation of SMAP information for JSR-45 debugging.
Dump SMAP Information	Specifies whether tc Runtime should dump SMAP information for JSR-45 debugging to a file. If you want to set this field to true (checked), then be sure to also uncheck Suppress SMAP Information.
Generate Strings as Char Arrays	Specifies whether strings should be generated as character arrays. Checking this field will sometimes increase the performance of JSPs.
Issue Error For Invalid useBean Class Attribute	Specifies whether tc Runtime should issue an error when the value of the class attribute in a useBean action is not a valid bean class.
Scratch Directory	Specifies the scratch directory that tc Runtime should use when compiling JSP pages. Default value is the work directory for the current Web application.
Add X-Powered-By Response Header	Specifies whether generated servlet adds the the X-Powered-By response header.

Server Defaults - Static Content

The fields described in the following table configure static content-related init params for every Web application deployed to this tc Runtime instance. vCenter Hyperic loads and updates the values from the CATALINA_BASE/conf/web.xml file for this tc Runtime instance.

Table 2-9. Server Defaults - Static Content Parameters

Field Names	Description
Debug Level	Specifies the level of detail contained in the debugging messages from the current servlet. Default value is 0 (no debugging.)
File Encoding	Specifies the encoding that tc Runtime uses when reading static resources. The default value is the same as the file encoding of the platform on which tc Runtime is running.
Input Buffer Size	Specifies the size, in bytes, of the input buffer that tc Runtime uses when reading resources to be served. Default value is 2048.
Output Buffer Size	Specifies the size, in bytes, of the output buffer that tc Runtime uses when writing resources to be served. Default value is 2048.

Table 2-9. Server Defaults - Static Content Parameters (Continued)

Field Names	Description
Min Sendfile Size	Specifies the minimal file size, in KB, that tc Runtime uses with "sendfile". This field only works if the connector supports sendfile. Default value is 48.
Show Directory Listings	Specifies whether tc Runtime should produce a directory listing if there is no welcome file in the directory. WARNING: Directory listings that include many entries can be slow and consume significant proportion of the tc Runtime resources.
Readme File Name	File name to display with the directory contents. No default value.
Read Only	Specifies whether the current context is read-only, which means that it rejects HTTP commands such as PUT and DELETE.

Managing tc Runtime JDBC Reference Parameters

This topic provides reference information about the fields in the **Views > Server Configuration > Resourcestab** used to configure and create JDBC data sources.

SpringSource tc Runtime provides two types of JDBC datasources: the standard DBCP one and a Tomcat datasource for highly-concurrent environments.

Table 2-10. General Properties

Field Name	Description
JNDI Name	The JNDI path to which this data source is bound. By default, the JNDI name is the name of the data source.

Table 2-11. Connection Properties

Field Name	Description
Username	The username that the JDBC driver uses to establish a connection to the database server.
Password	The password that the JDBC driver uses to establish a connection to the database server.
URL	The connection URL that the JDBC driver uses to establish a connection to the database server. This URL varies for each type of database driver. An example for the MySQL database is: <code>jdbc:mysql://localhost:3306/javatest?autoReconnect=true</code>
Driver Class Name	The fully qualified name of the JDBC driver class used to create the physical database connections in the connection pool. The driver class name varies for the type of JDBC driver. An example of the driver class name for connecting to a MySQL database server is: <code>com.mysql.jdbc.Driver</code>
Connection Properties	The connection properties that tc Runtime sends to the JDBC driver when establishing new connections. Format of the string must be <code>[propertyName=property;]</code> NOTE tc Runtime passes the user and password properties explicitly, so do not include them in this field.

Table 2-12. Tomcat/DBCP Connection Pool Properties

Field Name	Description
Default Auto Commit	Specifies whether connections created by this pool are by default in an auto-commit state.
Default Read Only	Specifies whether connections created by this pool are by default read only.
Default Transaction Isolation	Specifies the default transaction isolation state for connections created by this pool. Values can be: <ul style="list-style-type: none"> ■ NONE: Transactions are not supported. ■ READ_COMMITTED: Dirty reads are prevented; non-repeatable reads and phantom reads can occur. ■ READ_UNCOMMITTED: Dirty reads, non-repeatable reads and phantom reads can occur. ■ REPEATABLE_READ: Dirty reads and non-repeatable reads are prevented; phantom reads can occur. ■ SERIALIZABLE: Dirty reads, non-repeatable reads and phantom reads are prevented. Default value depends on the database driver.
Default Catalog	Specifies the default catalog of connections created by this pool.
Initial Number of Connections	Specifies the initial number of connections that are created when tc Runtime starts this connection pool. Default value is 0 (DBCP datasource) or 10 (Tomcat datasource).
Max Active Connections	Specifies the maximum number of active connections that tc Runtime can allocate from this pool at the same time. Specify a negative number for no limit. Default value is 8 (DBCP datasource) or 100 (Tomcat datasource).
Max Idle Connections	Specifies the maximum number of connections that can remain idle in the pool without any extra ones being released. Specify a negative number for no limit. Default value is 8 (DBCP datasource) or 100 (Tomcat datasource).
Min Idle Connections	Specifies the minimum number of connections that can remain idle in the pool without any extra ones being created. Specify 0 to create none. Default value is 0 (DBCP datasource) or 10 (Tomcat datasource).
Max Wait Time For Connection Borrow	The maximum number of milliseconds that the connection pool waits (when there are no available connections) for a connection to be returned before throwing an exception. Specify -1 to wait indefinitely. Default value is -1 (DBCP datasource) or 30000 (Tomcat datasource).
Validation Query	The SQL query that the driver uses to validate connections from this pool before returning them to the caller. If specified, this query MUST be an SQL SELECT statement that returns at least one row.
Test on Borrow	Specifies whether tc Runtime validates objects before being borrowed from the pool. If the object fails to validate, tc Runtime drops it from the pool and attempts to borrow another. NOTE For a value in this field to have any effect, you must set the Validation Query field to a non-null string.
Test on Return	Specifies whether tc Runtime validates objects before returning them to the connection pool.

Table 2-12. Tomcat/DBCP Connection Pool Properties (Continued)

Field Name	Description
Test While Idle	Specifies whether the idle object evictor validates objects. If an object fails to validate, tc Runtime drops it from the connection pool. NOTE For a value in this field to have any effect, you must set the Validation Query field to a non-null string.
Time Between Eviction Runs	The number of milliseconds to sleep between runs of the idle object evictor thread. When non-positive, tc Runtime does not run an idle object evictor thread. Default value is -1 (DBCP datasource) or 5000 (Tomcat datasource).
Test Per Eviction Runs	The number of objects to examine during each run of the idle object evictor thread (if any). Default value is 3.
Min Evictable Idle Time	The minimum amount of time, in milliseconds, that an object may sit idle in the pool before it is eligible for eviction by the idle object evictor (if any).
Pool Prepared Statements	Enables prepared statement pooling for this connection pool.
Max Opened Prepared Statements	The maximum number of open statements that can be allocated from the statement pool at the same time. Set this field to 0 for no limit. Default value is 0.
Allow Access to Underlying Connection	Specifies whether the PoolGuard allows access to the underlying connection.
Remove Abandoned Connections	Specifies whether tc Runtime should remove abandoned connections if they exceed the value of the Remove Abandoned Timeouts field. If checked, a connection is considered abandoned and eligible for removal if it has been idle longer than the value of Remove Abandoned Timeouts . Checking this field can recover database connections from poorly written applications which fail to close a connection.
Remove Abandoned Timeouts	Specifies the amount of time, in seconds, before tc Runtime can remove an abandoned connection. Default value is 300 seconds.
Log Abandoned Statements and Connections	Specifies whether tc Runtime should log stack traces for application code that abandoned a Statement or Connection. NOTE Logging of abandoned Statements and Connections adds overhead for every Connection open or new Statement because a stack trace has to be generated.
Validation Interval (ms)	Tomcat datasource only. Specifies the time, in milliseconds, that tc Runtime waits before running a validation check to ensure that the JDBC connection is still valid. Too frequent validation checks can slow performance. Default value for this field is 30000 (30 seconds).
Fair Queue	Tomcat datasource only. Specifies that calls to getConnection() should be treated fairly in a true FIFO (first in, first out) fashion. You are required to enable this feature if you want to use the asynchronous connection retrieval feature, which is the ability to queue your connection request.
JMX Enabled	Tomcat datasource only. Specifies whether the connection pool is registered with the JMX server.

Table 2-12. Tomcat/DBCP Connection Pool Properties (Continued)

Field Name	Description
Use equals comparison	Tomcat datasource only. Specifies whether the ProxyConnection class should use String.equals() instead of == when comparing method names. Does not apply to added interceptors as those are configured individually.
Init SQL	Tomcat datasource only. Specifies an initial SQL statement that is run only when a connection is first created. You can use this featurer to setup session settings that you want to exist during the entire time the connection is established.
JDBC Interceptors	<p>Tomcat datasource only. Semi-colon separated list of classnames that tc Runtime inserts as interceptors in the chain of operations on the java.sql.Connection object. The interceptor classes must extend the abstract class:</p> <pre>org.apache.tomcat.jdbc.pool.JdbcInterceptor</pre> <p>SpringSource tc Runtime provides a JDBC Interceptor called <code>SlowQueryReportJmx</code> that keeps a report of slow JDBC queries, or JDBC queries that did not complete below a configured time threshold. If you want AMS to display this report in its Console, then you must add the <code>SlowQueryReportJmx</code> interceptor to this text field.</p> <p>For example, to add it to the default interceptors, enter this value:</p> <pre>ConnectionState;StatementFinalizer;SlowQueryReportJmx</pre> <p>The default threshold for the <code>SlowQueryReportJmx</code> interceptor is 5000 milliseconds. If you want to change the default value, include it as a parameter to the interceptor, as shown:</p> <pre>ConnectionState;StatementFinalizer;SlowQueryReportJmx(threshold=6000)</pre> <p>After you have configured the <code>SlowQueryReportJmx</code> interceptor, AMS creates and auto-discovers a service called "JDBC Query Report" that contains information about slow JDBC queries.</p>

Managing tc Runtime Services Reference Parameters

This topic provides reference information about the fields in the **Views > Server Configuration > Servicestab** used to configure and create tc Runtime services.

A tc Runtime service represents the combination of one or more connector components that share a single engine component for processing incoming requests. A tc Runtime consists of one or more services. The default tc Runtime service which is always present in the newly created tc Runtime instance is called catalina.

Table 2-13. General Properties

Field Name	Description
Name	Specifies the name of this tc Runtime service. Within the scope of a tc Runtime , the service name must be unique. This is the name that appears in the tc Runtime log messages.

Connector Properties

Each tc Runtime service can have one or more connectors configured. Connectors are specific to a protocol, such as HTTP or AJP.

Table 2-14. General Properties

Field Name	Description
Protocol	<p>Specifies the protocol that handles incoming and outgoing messages for this connector. This field can have the following values:</p> <ul style="list-style-type: none"> ■ <code>org.apache.coyote.http11.Http11Protocol</code> (same as HTTP/1.1). This is the default value. If you want to use HTTPS, you do not specify HTTPS/1.1, but rather, set the secure field to true. ■ <code>org.apache.coyote.http11.Http11NioProtocol</code> - non blocking Java connector ■ <code>org.apache.coyote.http11.Http11AprProtocol</code> - the APR connector.
IP Address	<p>For tc Runtime instances with more than one IP address, this attribute identifies a single address, upon which the listen port defined in the Port attribute will be opened for connections. If a specific IP address is not specified, server sockets will be created on all IP addresses associated for the server, on the port specified in the Port attribute.</p>
Port	<p>Specifies the TCP port number on which this connector will create a server socket and await incoming connections. Your operating system allows only one server application to listen to a particular port number on a particular IP address, which means that multiple tc Runtime instances running on the same computer must have unique ports. Default value is 8080.</p>
Accept Count	<p>HTTP(S) Connectors only. Specifies maximum queue length for incoming connection requests when all possible request processing threads are in use. Any requests received when the queue is full will be refused. The default value is 10.</p>
Max Keep Alive Requests	<p>HTTP(S) Connectors only. Specifies the maximum number of HTTP requests that can be pipelined until the connection is closed by the server. A value of 1 disables HTTP/1.0 keep-alive, as well as HTTP/1.1 keep-alive and pipelining. A value of -1 allows an unlimited amount of pipelined or keep-alive HTTP requests. The default value of this field is 100.</p>
Proxy Host	<p>If this connector is being used in a proxy configuration, specifies the server name that is returned from calls to <code>request.getServerName()</code>.</p>
Proxy Port	<p>If this connector is being used in a proxy configuration, specifies the server port that is returned from calls to <code>request.getServerPort()</code>.</p>
Redirect Port	<p>Specifies the port to which a user is redirected if they require a secure connection. If this connector supports non-SSL requests, and a request is received for which a matching requires SSL transport, tc Runtime automatically redirects the request to the port number specified here.</p>
Scheme	<p>Specifies the name of the protocol you want to have returned by calls to <code>request.getScheme()</code>. For example, set this field to https for an SSL Connector. The default value is http.</p>
Connection Timeout	<p>Specifies the number of milliseconds this connector waits, after accepting a connection, for the request URI line to be presented. The default value is 60000 (i.e. 60 seconds).</p>

Table 2-14. General Properties (Continued)

Field Name	Description
Max Threads	Specifies the maximum number of request processing threads that this connector creates, which in turn determines the maximum number of simultaneous requests that can be handled. If an executor is associated with this connector, tc Runtime ignores this attribute as the connector will execute tasks using the executor rather than an internal thread pool. The default value of this field is 40.
Request Secret Password	Specifies that only requests from workers with this secret keyword will be accepted.
Use Request Secret Keyword	Specifies whether tc Runtime should generate a random value for the Request Secret Keyword field.

Table 2-15. Security/SSL Properties

Field Name	Description
Secure	Specifies whether you want user calls to <code>request.isSecure()</code> to return true for requests received by this connector. Check this field for connectors (both SSL and non-SSL) that receive data from an SSL accelerator, like a crypto card, a SSL appliance or even a Web server.
Enable SSL	Enables SSL traffic (handshake/encryption/decryption) for this connector. When enabled, be sure to also set the scheme and secure attributes so that correct values are returned to user calls to <code>request.getScheme()</code> and <code>request.isSecure()</code> .
Certificate Encoding Algorithm	Specifies the certificate encoding algorithm. The default value is the Sun implementation (SunX509). For IBM JVMs use the value <code>IbmX509</code> . For other vendors, consult the JVM documentation for the correct value.
Keystore File	Specifies the pathname of the keystore file that contains the server certificate to be loaded. By default, the pathname is the file <code>*.keystore</code> in the operating system home directory of the user that starts the tc Runtime instance.
Keystore Password	Specifies the password used to access the server certificate from the specified keystore file. The default value is <code>changeit</code> .
Key Alias	Specifies the alias that tc Runtime uses when accessing the server certificate in the keystore. If not specified, tc Runtime uses the first key read in the keystore.

Engine Properties

A tc Runtime engine represents the entire request processing machinery associated with a particular service. It receives and processes all requests from one or more connectors, and returns the completed response to the connector for ultimate transmission back to the client.

Each Service must be associated with exactly one engine.

Table 2-16. Engine Properties

Field Name	Description
Name	Specifies the name of this service. This is the name used in tc Runtime logging messages. Each service name must be unique within the scope of a tc Runtime instance.
Default Host	Specifies the default host name. This name corresponds to the name of a Host component that processes requests directed to host names on this server, but which are not explicitly configured for this tc Runtime instance.
JVM Route	Specifies the identifier that must be used in load balancing scenarios to enable session affinity. The identifier, which must be unique across all tc Runtime instances that participate in a cluster, is appended to the generated session identifier, therefore allowing the front end proxy to always forward a particular session to the same tc Runtime instance.

Thread Diagnostics

When you deploy and start a web application on a tc Runtime instance, and then clients begin connecting and using the application, you might find that the clients occasionally run into problems such as slow requests or even failed requests. Although tc Runtime by default logs these errors in the log files, it is often difficult to pinpoint where exactly the error came from and how to go about fixing it. By enabling thread diagnostics, tc Runtime provides additional information to help you troubleshoot the problem.

A failed request is one that simply did not execute; a slow request is defined as a request that takes longer than the configured threshold. The default threshold is 500 milliseconds.

When you enable thread diagnostics, you can view the following contextual information about a slow or failed client request:

- The time and date when the slow or failed request happened.
- The exact URL invoked by the client that resulted in a slow or failed request.
- The exact error returned by the request.
- The database queries that were executed as part of the request and how long each one took.
- Whether any database connection failed or succeeded.
- Whether the database had any other connectivity problems.
- Whether the database connection pool ran out of connections.
- Whether any garbage collection occurred during the request, and if so, how long it took.

Table 2-17. Thread Diagnostics Properties

Field Name	Description
Enable Thread Diagnostics	Enables the gathering of thread diagnostic information. To view this information after you have enabled thread diagnostics, go to the Monitor tab of a particular tc Runtime instance, then click on the <i>servername</i> Thread Diagnostics link in the Resources > Services window on the left.
History	Specifies the maximum number of requests that have met the threshold condition that tc Runtime keeps as historical data. The default value is 1000. You can query this historical data using JMX; it is not presented in the HQ user interface.
Threshold	Specifies the threshold, in milliseconds, after which a client request is considered slow. The default value is 5000 milliseconds.

Host Properties

A tc Runtime Host represents a virtual host, which is an association of a network name for a tc Runtime (such as `www.mycompany.com` associated with the particular tc Runtime). To be effective, the network name must be registered in the Domain Name Service (DNS) server that manages the Internet domain to which you belong.

A tc Runtime engine must be associated with one or more hosts. One of the hosts must be the default host, or the one pointed to by the **Default Host** field of the Engine configuration.

Table 2-18. Host Properties

Field Name	Description
Name	Specifies the network name of this virtual host, as registered in your Domain Name Service (DNS) server. One of the Hosts associated within a tc Runtime engine MUST have a name that matches the Default Host setting for that engine.
Application Base Directory	Specifies the application base directory for this virtual host. The application base directory may contain Web applications to be deployed on this virtual host. You can specify an absolute pathname for this directory, or a pathname that is relative to the \$CATALINA_BASE directory..
Auto Deploy Web Applications	Specifies whether new web applications that are copied to the application base directory while tc Runtime is running should be automatically deployed.
Deploy Applications on Startup	Specifies whether web applications from this host should be automatically deployed when the tc Runtime instance starts up.
Unpack WARs	Specifies whether tc Runtime should unpack web applications that are copied to the application base directory as web application archive (WAR) files into a corresponding disk directory structure. If unchecked, tc Runtime runs the Web applications directory from a WAR file.

Table 2-18. Host Properties (Continued)

Field Name	Description
Deploy XML	Specifies whether tc Runtime should parse the <code>context.xml</code> file embedded inside the Web application (located at <code>/META-INF/context.xml</code>). Security conscious environments should set this to false (unchecked) to prevent applications from interacting with the container's configuration. The administrator will then be responsible for providing an external context configuration file, and put it in <code>\$CATALINA_BASE/conf/engineName/hostname/</code> .
Work Directory	Specifies the pathname to a scratch directory used by applications for this host. Each application will have its own sub directory with temporary read-write use. Configuring a context work directory overrides use of the host work directory configuration. This directory will be made visible to servlets in the web application by a servlet context attribute (of type <code>java.io.File</code>) named <code>javax.servlet.context.tempdir</code> as described in the Servlet Specification. If not specified, a suitable directory underneath <code>\$CATALINA_BASE/work</code> will be provided.

HTTP Access Logging

The tc Runtime logging subsystem creates log files in the same format as those created by standard web servers. These logs can later be analyzed by standard log analysis tools to track page hit counts, user session activity, and so on. The logging files are rolled over nightly at midnight.

Table 2-19. HTTP Access Logging Properties

Field Name	Description
Enable Logging	Specifies whether you want to enable logging on this engine or virtual host.
Directory	Specifies the absolute or relative pathname of a directory in which tc Runtime creates the log files. If you specify a relative pathname, it is relative to <code>\$CATALINA_BASE</code> . The default value is <code>\$CATALINA_BASE/logs</code> .
Pattern	A formatting layout identifying the various information fields from the request and response to be logged, or the word <code>common</code> or <code>combined</code> to select a standard format. Note that the optimized access does only support <code>common</code> and <code>combined</code> as the value for this attribute.
File Name Prefix	Specifies the prefix added to the start of each log file's name. The default value is <code>access_log</code> . Leave the field blank if you do not want a prefix.
File Name Suffix	Specifies the suffix added to the end of each log file's name. Leave the field blank if you do not want a suffix (default behavior).
File Date Format	Specifies a customized date format in the access log file name. The date format also specifies how often the file is rotated. For example, if you want the log files to rotate every hour, then set this value to: <code>yyyy-MM-dd.HH</code>

SpringSource tc Runtime 6.0 server

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: start,stop,restart

Table 2-20. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
UpTime	UpTime	MS	UTILIZATION	true	30 min
Thread Count	ThreadCount	none	UTILIZATION	false	10 min
Thread Count per Minute	ThreadCount1m	none	UTILIZATION	false	10 min
Current Thread Cpu Time	CurrentThreadCpuTime	ms	UTILIZATION	false	10 min
Current Thread Cpu Time per Minute	CurrentThreadCpuTime1m	ms	UTILIZATION	false	10 min
Current Thread User Time	CurrentThreadUserTime	ms	UTILIZATION	false	10 min
Current Thread User Time per Minute	CurrentThreadUserTime1m	ms	UTILIZATION	false	10 min
Daemon Thread Count	DaemonThreadCount	none	UTILIZATION	false	5 min
Peak Thread Count	PeakThreadCount	none	UTILIZATION	false	30 min
Free Swap Space Size	FreeSwapSpaceSize	B	UTILIZATION	false	5 min
Free Physical Memory Size	FreePhysicalMemorySize	B	UTILIZATION	false	5 min
Process Cpu Time	ProcessCpuTime	ns	UTILIZATION	false	10 min
Process Cpu Time per Minute	ProcessCpuTime1m	ns	UTILIZATION	false	10 min
Open File Descriptor Count	OpenFileDescriptorCount	none	UTILIZATION	false	5 min
Heap Memory Used	HeapMemoryUsed	B	UTILIZATION	True	5 min
Heap Memory Committed	HeapMemoryCommitted	B	UTILIZATION	True	5 min
Heap Memory Max	HeapMemoryMax	B	UTILIZATION	True	30 min
Heap Memory Free	HeapMemoryFree	B	UTILIZATION	True	5 min
Deadlocks Detected	DeadlocksDetected	none	UTILIZATION	True	2 min
Availability	Availability	percent	AVAILABILITY	True	5 min
Percent Up Time in Garbage Collection	PercentUpTimeinGarbageCollection	none	UTILIZATION	True	5 min

Configuration help

- [SpringSource tc Runtime 6.0 Data Source Context service](#) on page 50
- [SpringSource tc Runtime 6.0 Thread Diagnostics Engine service](#) on page 51
- [SpringSource tc Runtime 6.0 Tomcat JDBC Connection Pool Context service](#) on page 51
- [SpringSource tc Runtime 6.0 Garbage Collector service](#) on page 51
- [SpringSource tc Runtime 6.0 Thread Diagnostics Host service](#) on page 52
- [SpringSource tc Runtime 6.0 Java Process Metrics service](#) on page 52
- [SpringSource tc Runtime 6.0 Global Request Processor service](#) on page 53
- [SpringSource tc Runtime 6.0 Data Source Global service](#) on page 54
- [SpringSource tc Runtime 6.0 JSP Monitor service](#) on page 54
- [SpringSource tc Runtime 6.0 Executor service](#) on page 55
- [SpringSource tc Runtime 6.0 Thread Pools service](#) on page 55
- [SpringSource tc Runtime 6.0 Cache service](#) on page 56
- [SpringSource tc Runtime 6.0 Servlet Monitor service](#) on page 56
- [SpringSource tc Runtime 6.0 Web Module Stats service](#) on page 57
- [SpringSource tc Runtime 6.0 HTTP service](#) on page 57
- [SpringSource tc Runtime 6.0 Thread Diagnostics Context service](#) on page 57
- [SpringSource tc Runtime 6.0 Tomcat JDBC Connection Pool Global service](#) on page 58

SpringSource tc Runtime 6.0 Data Source Context service

Log Track Supported: No

Config Track Supported: No

Table 2-21. Custom Properties Supported

Name	Description
initialSize	initial Size
maxActive	Maximum Active Connections
minIdle	Minimum Idle Connections
maxIdle	Maximum Idle Connections
url	JDBC URL
username	User name

Supported Control Actions: None

Table 2-22. Supported Metrics

Name	Alias	Units	Category	Default On	Default Value
Availability	Availability	percent	AVAILABILITY	True	10 min
Current Number of Active Connections	numActive	none	UTILIZATION	True	5 min
Current Number of Idle Connections	numIdle	none	UTILIZATION	True	5 min

Configuration help**SpringSource tc Runtime 6.0 Thread Diagnostics Engine service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

None

Table 2-23. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help**SpringSource tc Runtime 6.0 Tomcat JDBC Connection Pool Context service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-24. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help**SpringSource tc Runtime 6.0 Garbage Collector service**

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-25. Supported Metrics

Name	Alias	Units	Category	Default On	Default Value
Availability	Availability	percent	AVAILABILITY	True	10 min
Collection Count	CollectionCount	none	THROUGHPUT	False	10 min
Collection Count per Minute	CollectionCount1m	none	THROUGHPUT	False	10 min
Collection Time	CollectionTime	none	THROUGHPUT	False	10 min
Collection Time per Minute	CollectionTime1m	none	THROUGHPUT	False	10 min

Configuration Help

SpringSource tc Runtime 6.0 Thread Diagnostics Host service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

None

Table 2-26. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration Help

SpringSource tc Runtime 6.0 Java Process Metrics service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-27. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Process Virtual Memory Size	ProcessVirtualMemorySize	B	UTILIZATION	false	5 min
Process Resident Memory Size	ProcessResidentMemorySize	B	UTILIZATION	true	5 min
Process Page Fault	ProcessPageFault	none	UTILIZATION	false	10 min
Process Page Faults per Minute	ProcessPageFaults1m	none	UTILIZATION	false	10 min
Process Cpu System Time	ProcessCpuSystemTime	ms	UTILIZATION	false	10 min

Table 2-27. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Process Cpu System Time per Minute	ProcessCpuSystemTime1m	ms	UTILIZATION	false	10 min
Process Cpu User Time	ProcessCpuUserTime	ms	UTILIZATION	false	10 min
Process Cpu User Time per Minute	ProcessCpuUserTime1m	ms	UTILIZATION	false	10 min
Process Cpu Total Time	ProcessCpuTotalTime	ms	UTILIZATION	false	10 min
Process Cpu Total per Minute	ProcessCpuTotalTime1m	ms	UTILIZATION	false	10 min
Process Cpu Usage	ProcessCpuUsage	percent	UTILIZATION	true	5 min
Process Start Time	ProcessStartTime	eoph-millis	AVAILABILITY	false	10 min
Process Open File Descriptors	ProcessOpenFileDescriptors	none	UTILIZATION	false	5 min
Process Threads	ProcessThreads	none	UTILIZATION	false	5 min
Child Processes	ChildProcesses	none	UTILIZATION	false	5 min

Configuration help

SpringSource tc Runtime 6.0 Global Request Processor service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-28. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	Percent	AVAILABILITY	true	10min
Bytes Sent	bytesSent	none	UTILIZATION	false	10min
Bytes Sent per Minute	bytesSent1m	none	UTILIZATION	false	10min
Bytes Received	bytesReceived	none	UTILIZATION	true	10 min
Bytes Received per Minute	bytesReceived1m	none	UTILIZATION	false	10 min
Error Count	errorCount	none	UTILIZATION	false	10 min
Error Count per Minute	errorCount1m	none	UTILIZATION	true	10 min
Processing Time	processingTime	none	UTILIZATION	false	10 min
Processing Time per Minute	processingTime1m	none	UTILIZATION	true	10 min

Table 2-28. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Request Count	requestCount	none	UTILIZATION	false	10 min
Request Count per Minute	requestCount1m	none	UTILIZATION	true	10 min

Configuration Help

SpringSource tc Runtime 6.0 Data Source Global service

Log Track Supported: No

Config Track Supported: No

Table 2-29. Custom Properties Supported

Name	Description
initialSize	Initial Size
maxActive	Maximum Active Connections
minIdle	Minimum Idle Connections
maxIdle	Maximum Idle Connections
url	JDBC URL
username	Username

Supported Control Actions: None

Table 2-30. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	Percent	AVAILABILITY	true	10min
Current Number of Active Connections	numActive	none	UTILIZATION	true	5 min
Current Number of Idle Connections	numIdle	none	UTILIZATION	true	5 min

Configuration Help

SpringSource tc Runtime 6.0 JSP Monitor service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-31. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
JSP Count	jspCount	none	UTILIZATION	false	10 min
JSP Count per Minute	jspCount1	none	UTILIZATION	true	10 min
JSP Reload Count	jspReloadCount	none	UTILIZATION	false	10 min
JSP Reload Count per Minute	jspReloadCount1	none	UTILIZATION	true	10 min

Configuration help

SpringSource tc Runtime 6.0 Executor service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-32. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Max Threads	maxThreads	none	UTILIZATION	true	5 min
Pool Size	poolSize	none	UTILIZATION	true	5 min
Active Count	activeCount	none	UTILIZATION	true	5 min
Queue Size	queueSize	none	UTILIZATION	true	5 min

Configuration help

SpringSource tc Runtime 6.0 Thread Pools service

Log Track Supported: Yes

Config Track Supported: No

Table 2-33. Custom Properties Supported:

Name	Description
maxThreads	Maximum number of threads.

Supported Control Actions: start, shutdown

Table 2-34. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Current Thread Count	currentThreadCount	none	UTILIZATION	true	5 min
Current Thread Busy	currentThreadsBusy	none	UTILIZATION	true	5 min

Configuration help

SpringSource tc Runtime 6.0 Cache service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-35. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Access Count	accessCount	none	UTILIZATION	false	10 min
Access Count per Minute	accessCount1m	none	UTILIZATION	true	10 min
Hits Count	hitsCount	none	UTILIZATION	false	10 min
Hits Count per Minute	hitsCount1m	none	UTILIZATION	true	10 min

Configuration help

SpringSource tc Runtime 6.0 Servlet Monitor service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-36. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Class Load Time	classLoadTime	none	UTILIZATION	false	5 min
Error Count	errorCount	none	UTILIZATION	false	10 min
Error Count per Minute	errorCount1m	none	UTILIZATION	true	10 min
Load Time	loadTime	none	UTILIZATION	false	5 min
Processing Time	processingTime	none	UTILIZATION	false	10 min

Table 2-36. Supported Metrics (Continued)

Name	Alias	Category	Untils	Default Value	Default On
Processing Time per Minute	processingTime1m	none	UTILIZATION	false	10 min
Request Count	requestCount	none	UTILIZATION	false	10 min
Request Count per Minute	requestCount1m	none	UTILIZATION	true	10 min

Configuration help**SpringSource tc Runtime 6.0 Web Module Stats service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start, reload

Table 2-37. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Processing Time	processingTime	sec	UTILIZATION	true	5 min

Configuration help**SpringSource tc Runtime 6.0 HTTP service**

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-38. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Inbound Connection	inboundConnections	none	UTILIZATION	true	5 min
Outbound Connections	outboundConnections	none	UTILIZATION	true	5 min

Configuration help**SpringSource tc Runtime 6.0 Thread Diagnostics Context service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-39. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help

SpringSource tc Runtime 6.0 Tomcat JDBC Connection Pool Global service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-40. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help

SpringSource tc Runtime 7.0 server

Log Track Supported: Yes

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: start,stop,restart

Table 2-41. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
UpTime	UpTime	MS	UTILIZATION	true	30 min
Thread Count	ThreadCount	none	UTILIZATION	false	10 min
Thread Count per Minute	ThreadCount1m	none	UTILIZATION	false	10 min
Current Thread Cpu Time	CurrentThreadCpuTime	ms	UTILIZATION	false	10 min
Current Thread Cpu Time per Minute	CurrentThreadCpuTime1m	ms	UTILIZATION	false	10 min
Current Thread User Time	CurrentThreadUserTime	ms	UTILIZATION	false	10 min
Current Thread User Time per Minute	CurrentThreadUserTime1m	ms	UTILIZATION	false	10 min
Daemon Thread Count	DaemonThreadCount	none	UTILIZATION	false	5 min

Table 2-41. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Peak Thread Count	PeakThreadCount	none	UTILIZATION	false	30 min
Free Swap Space Size	FreeSwapSpaceSize	B	UTILIZATION	false	5 min
Free Physical Memory Size	FreePhysicalMemorySize	B	UTILIZATION	false	5 min
Process Cpu Time	ProcessCpuTime	ns	UTILIZATION	false	10 min
Process Cpu Time per Minute	ProcessCpuTime1m	ns	UTILIZATION	false	10 min
Open File Descriptor Count	OpenFileDescriptorCount	none	UTILIZATION	false	5 min
Heap Memory Used	HeapMemoryUsed	B	UTILIZATION	True	5 min
Heap Memory Committed	HeapMemoryCommitted	B	UTILIZATION	True	5 min
Heap Memory Max	HeapMemoryMax	B	UTILIZATION	True	30 min
Heap Memory Free	HeapMemoryFree	B	UTILIZATION	True	5 min
Deadlocks Detected	DeadlocksDetected	none	UTILIZATION	True	2 min
Availability	Availability	percent	AVAILABILITY	True	5 min
Percent Up Time in Garbage Collection	PercentUpTimeinGarbageCollection	none	UTILIZATION	True	5 min

Configuration help

- [SpringSource tc Runtime 7.0 Cache service](#) on page 60
- [SpringSource tc Runtime 7.0 Data Source Context service](#) on page 60
- [SpringSource tc Runtime 7.0 Data Source Global service](#) on page 61
- [SpringSource tc Runtime 7.0 Executor service](#) on page 61
- [SpringSource tc Runtime 7.0 Garbage Collector service](#) on page 62
- [SpringSource tc Runtime 7.0 Global Request Processor service](#) on page 62
- [SpringSource tc Runtime 7.0 HTTP service](#) on page 63
- [SpringSource tc Runtime 7.0 Java Process Metrics service](#) on page 63
- [SpringSource tc Runtime 7.0 JSP Monitor service](#) on page 64
- [SpringSource tc Runtime 7.0 Manager service](#) on page 65
- [SpringSource tc Runtime 7.0 Servlet Monitor service](#) on page 65
- [SpringSource tc Runtime 7.0 Thread Diagnostics Context service](#) on page 66

- [SpringSource tc Runtime 7.0 Thread Diagnostics Engine service](#) on page 66
- [SpringSource tc Runtime 7.0 Thread Diagnostics Host service](#) on page 66
- [SpringSource tc Runtime 7.0 Thread Pools service](#) on page 66
- [SpringSource tc Runtime 7.0 Tomcat JDBC Connection Pool Context service](#) on page 67
- [SpringSource tc Runtime 7.0 Tomcat JDBC Connection Pool Global service](#) on page 67
- [SpringSource tc Runtime 7.0 Web Module Stats service](#) on page 67

SpringSource tc Runtime 7.0 Cache service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-42. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Access Count	accessCount	none	UTILIZATION	false	10 min
Access Count per Minute	accessCount1m	none	UTILIZATION	true	10 min
Hits Count	hitsCount	none	UTILIZATION	false	10 min
Hits Count per Minute	hitsCount1m	none	UTILIZATION	true	10 min

Configuration help

SpringSource tc Runtime 7.0 Data Source Context service

Log Track Supported: No

Config Track Supported: No

Table 2-43. Custom Properties Supported

Name	Description
initialSize	initial Size
maxActive	Maximum Active Connections
minIdle	Minimum Idle Connections
maxIdle	Maximum Idle Connections
url	JDBC URL
username	User name

Supported Control Actions: None

Table 2-44. Supported Metrics

Name	Alias	Units	Category	Default On	Default Value
Availability	Availability	percent	AVAILABILITY	True	10 min
Current Number of Active Connections	numActive	none	UTILIZATION	True	5 min
Current Number of Idle Connections	numIdle	none	UTILIZATION	True	5 min

Configuration help

SpringSource tc Runtime 7.0 Data Source Global service

Log Track Supported: No

Config Track Supported: No

Table 2-45. Custom Properties Supported

Name	Description
initialSize	Initial Size
maxActive	Maximum Active Connections
minIdle	Minimum Idle Connections
maxIdle	Maximum Idle Connections
url	JDBC URL
username	Username

Supported Control Actions: None

Table 2-46. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	Percent	AVAILABILITY	true	10min
Current Number of Active Connections	numActive	none	UTILIZATION	true	5 min
Current Number of Idle Connections	numIdle	none	UTILIZATION	true	5 min

Configuration Help

SpringSource tc Runtime 7.0 Executor service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-47. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Max Threads	maxThreads	none	UTILIZATION	true	5 min
Pool Size	poolSize	none	UTILIZATION	true	5 min
Active Count	activeCount	none	UTILIZATION	true	5 min
Queue Size	queueSize	none	UTILIZATION	true	5 min

Configuration help

SpringSource tc Runtime 7.0 Garbage Collector service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-48. Supported Metrics

Name	Alias	Units	Category	Default On	Default Value
Availability	Availability	percent	AVAILABILITY	True	10 min
Collection Count	CollectionCount	none	THROUGHPUT	False	10 min
Collection Count per Minute	CollectionCount1m	none	THROUGHPUT	False	10 min
Collection Time	CollectionTime	none	THROUGHPUT	False	10 min
Collection Time per Minute	CollectionTime1m	none	THROUGHPUT	False	10 min

Configuration Help

SpringSource tc Runtime 7.0 Global Request Processor service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-49. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	Percent	AVAILABILITY	true	10min
Bytes Sent	bytesSent	none	UTILIZATION	false	10min
Bytes Sent per Minute	bytesSent1m	none	UTILIZATION	false	10min
Bytes Received	bytesReceived	none	UTILIZATION	false	10 min
Bytes Received per Minute	bytesReceived1m	none	UTILIZATION	false	10 min

Table 2-49. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Error Count	errorCount	none	UTILIZATION	false	10 min
Error Count per Minute	errorCount1m	none	UTILIZATION	true	10 min
Processing Time	processingTime	none	UTILIZATION	false	10 min
Processing Time per Minute	processingTime1m	none	UTILIZATION	true	10 min
Request Count	requestCount	none	UTILIZATION	false	10 min
Request Count per Minute	requestCount1m	none	UTILIZATION	true	10 min

Configuration Help

SpringSource tc Runtime 7.0 HTTP service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-50. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Inbound Connection	InboundConnections	none	UTILIZATION	true	5 min
Outbound Connections	OutboundConnections	none	UTILIZATION	true	5 min

Configuration help

SpringSource tc Runtime 7.0 Java Process Metrics service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-51. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Process Virtual Memory Size	ProcessVirtualMemorySize	B	UTILIZATION	false	5 min
Process Resident Memory Size	ProcessResidentMemorySize	B	UTILIZATION	true	5 min
Process Page Fault	ProcessPageFault	none	UTILIZATION	false	10 min

Table 2-51. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Process Page Faults per Minute	ProcessPageFaults1m	none	UTILIZATION	false	10 min
Process Cpu System Time	ProcessCpuSystemTime	ms	UTILIZATION	false	10 min
Process Cpu System Time per Minute	ProcessCpuSystemTime1m	ms	UTILIZATION	false	10 min
Process Cpu User Time	ProcessCpuUserTime	ms	UTILIZATION	false	10 min
Process Cpu User Time per Minute	ProcessCpuUserTime1m	ms	UTILIZATION	false	10 min
Process Cpu Total Time	ProcessCpuTotalTime	ms	UTILIZATION	false	10 min
Process Cpu Total per Minute	ProcessCpuTotalTime1m	ms	UTILIZATION	false	10 min
Process Cpu Usage	ProcessCpuUsage	percent	UTILIZATION	true	5 min
Process Start Time	ProcessStartTime	eoph-millis	AVAILABILITY	false	10 min
Process Open File Descriptors	ProcessOpenFileDescriptors	none	UTILIZATION	false	5 min
Process Threads	ProcessThreads	none	UTILIZATION	false	5 min
Child Processes	ChildProcesses	none	UTILIZATION	false	5 min

Configuration help

SpringSource tc Runtime 7.0 JSP Monitor service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-52. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
JSP Count	jspCount	none	UTILIZATION	false	10 min
JSP Count per Minute	jspCount1	none	UTILIZATION	true	10 min
JSP Reload Count	jspReloadCount	none	UTILIZATION	false	10 min
JSP Reload Count per Minute	jspReloadCount1	none	UTILIZATION	true	10 min

Configuration help

SpringSource tc Runtime 7.0 Manager service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-53. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Active Sessions	activeSessions	none	UTILIZATION	true	5 min
Availability	Availability	percent	AVAILABILITY	true	10 min
Active Sessions	ActiveSessions	none	UTILIZATION	true	5 min
Sessions Created per Minute	sessionCreateRate	none	UTILIZATION	true	5 min
Session Destroyed per Minute	sessionExpireRate	none	UTILIZATION	true	5 min

Configuration help

SpringSource tc Runtime 7.0 Servlet Monitor service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-54. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Class Load Time	classLoadTime	none	UTILIZATION	false	5 min
Error Count	errorCount	none	UTILIZATION	false	10 min
Error Count per Minute	errorCount1m	none	UTILIZATION	true	10 min
Load Time	loadTime	none	UTILIZATION	false	5 min
Processing Time	processingTime	none	UTILIZATION	false	10 min
Processing Time per Minute	processingTime1m	none	UTILIZATION	false	10 min
Request Count	requestCount	none	UTILIZATION	false	10 min
Request Count per Minute	requestCount1m	none	UTILIZATION	true	10 min

Configuration help**SpringSource tc Runtime 7.0 Thread Diagnostics Context service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-55. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help**SpringSource tc Runtime 7.0 Thread Diagnostics Engine service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-56. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help**SpringSource tc Runtime 7.0 Thread Diagnostics Host service**

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-57. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help**SpringSource tc Runtime 7.0 Thread Pools service**

Log Track Supported: Yes

Config Track Supported: No

Table 2-58. Custom Properties Supported:

Name	Description
maxThreads	Maximum number of threads.

Supported Control Actions: start, shutdown

Table 2-59. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Current Thread Count	currentThreadCount	none	UTILIZATION	true	5 min
Current Thread Busy	currentThreadsBusy	none	UTILIZATION	true	5 min

Configuration help

SpringSource tc Runtime 7.0 Tomcat JDBC Connection Pool Context service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-60. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help

SpringSource tc Runtime 7.0 Tomcat JDBC Connection Pool Global service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 2-61. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min

Configuration help

SpringSource tc Runtime 7.0 Web Module Stats service

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start, reload

Table 2-62. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Processing Time	processingTime	sec	UTILIZATION	true	5 min

Configuration help

PostgreSQL

vCenter Hyperic's PostgreSQL plugin manages PostgreSQL and vPostgreSQL.

The list below illustrates the hierarchy of vCenter Hyperic resource types that map to PostgreSQL and vPostgreSQL entities. As of vCenter Hyperic 5.0, the PostgreSQL plugin can discover and monitor multiple databases running in the same PostgreSQL server.

PostgreSQL

- PostgreSQL Database

- PostgreSQL Table

- PostgreSQL Index

vPostgreSQL

- vPostgreSQL Database

- vPostgreSQL Table

- vPostgreSQL Index

- [Supported Versions and Requirements](#) on page 69

The vCenter Hyperic PostgreSQL plugin supports several versions.

- [Configuring PostgreSQL](#) on page 70

These sections provide information and instructions for configuring PostgreSQL.

- [Resource Types and Management Functions](#) on page 72

This section describes the management functions the PostgreSQL plugin performs for PostgreSQL components.

- [vPostgres 9.x server](#) on page 73

This topic provides information about vPostgres 9.x server metrics.

- [PostgreSQL 9.x server](#) on page 78

This topic provides information about Postgres 9.x server metrics.

- [PostgreSQL 8.x server](#) on page 83

This topic provides information about Postgres 8.x server metrics.

Supported Versions and Requirements

The vCenter Hyperic PostgreSQL plugin supports several versions.

The PostgreSQL plugin supports:

- vPostgreSQL 9.x
- PostgreSQL 9.x
- PostgreSQL 8.x

PostgreSQL Resources and the Hyperic Inventory Model

PostgreSQL and vPostgreSQL resources are server types. The Database, Table, and Index resources are service types.

Configuring PostgreSQL

These sections provide information and instructions for configuring PostgreSQL.

- [Step 1: Install the vCenter Hyperic Agent](#) on page 70
This topic provides instructions for installing the vCenter Hyperic agent.
- [Step 2: Import PostgreSQL Server](#) on page 70
This topic provides instructions for importing the PostgreSQL server.
- [Step 3: Configure Resource Name Format \(Optional\)](#) on page 70
The format of resource names that the PostgreSQL plugin assigns to PostgreSQL servers, databases, schemas and tables can be configured using agent properties.
- [Step 4: Configure PostgreSQL Server in vCenter Hyperic](#) on page 71
This topic provides instructions for configuring PostgreSQL in vCenter Hyperic.

Step 1: Install the vCenter Hyperic Agent

This topic provides instructions for installing the vCenter Hyperic agent.

Prerequisites

If you have used a previous version of vCenter Hyperic's PostgreSQL plugin, you must delete all existing PostgreSQL servers and services from the vCenter Hyperic inventory prior to using the 5.0 version of the plugin.

Procedure

- ◆ Install a vCenter Hyperic Agent on the PostgreSQL or vPostgreSQL host.
See *Getting Started with vCenter Hyperic* for instructions.

Step 2: Import PostgreSQL Server

This topic provides instructions for importing the PostgreSQL server.

Procedure

- 1 After you start the vCenter Hyperic agent, it should discover the PostgreSQL or vPostgreSQL server. The server should appear in the Auto-Discovery portlet on the Dashboard.
- 2 Import the server.

Step 3: Configure Resource Name Format (Optional)

The format of resource names that the PostgreSQL plugin assigns to PostgreSQL servers, databases, schemas and tables can be configured using agent properties.

If the plugin will only manage a single database, you can shorten schema and table names by removing the segment that identifies the associated database from the

`postgresql.index.name.format` and `postgresql.table.name.format` properties.

NOTE If you configure a different format for PostgreSQL resources after importing resources with the default names, you will have duplicate resources in the vCenter Hyperic database. You can avoid this problem by deleting the existing resources before changing resource name properties.

To use a different naming convention:

Procedure

- ◆ Define the desired format in these agent properties:
 - `postgresql.server.name.format`
 - `postgresql.database.name.format`
 - `postgresql.index.name.format`
 - `postgresql.table.name.format`

Step 4: Configure PostgreSQL Server in vCenter Hyperic

This topic provides instructions for configuring PostgreSQL in vCenter Hyperic.

Procedure

- 1 Navigate to the Configuration Properties page for the PostgreSQL server instance.
- 2 Enter the username for connecting to PostgreSQL in the **postgresql.user** field.
- 3 Enter the password for connecting to PostgreSQL in the **postgresql.password** field.
- 4 To limit the PostgreSQL tables that the agent discovers, enter a regular expression in the **postgresql.table.regex** field.
The default value All discovers all tables.
- 5 To enable the discovery of PostgreSQL indexes, enter a regular expression in the **postgresql.indexregex** field.
The default value, Off, means that no indexes are discovered.
- 6 To enable configuration tracking, select the **server.config_track.enable** checkbox.
Configuration tracking for PostgreSQL is disabled by default. For more information, see [“Auto-Discovery,”](#) on page 72. For information about how to enable configuration tracking and how to specify which files to track, see *Set Up Configuration Tracking for a Resource* in *vCenter Hyperic Administration*.
- 7 If you want the agent to auto-discover PostgreSQL services (databases, tables, and indexes) and databases, select the **Autodiscover Databases, indexes, and other services?** checkbox.

What to do next

Verify that metrics are collected in the Monitor tab.

vCenter Hyperic's PostgreSQL plugin uses the PostgreSQL statistics collector to obtain metrics. Verify that the following parameter in `PostgreSQLHome/data/postgresql.conf` is set to **Off**.

```
track_counts = true
```

If you do need to edit `postgresql.conf`, be sure to restart PostgreSQL after saving your changes.

Resource Types and Management Functions

This section describes the management functions the PostgreSQL plugin performs for PostgreSQL components.

- [Auto-Discovery](#) on page 72
The PostgreSQL plugin discovers server resources using a SIGAR query - it looks for a process named postgres or postmaster.
- [Measurement](#) on page 72
The PostgreSQL plugin uses the following measurement classes:
- [Controls](#) on page 73
This topic provides information about the control actions that are available when using the vCenter Hyperic PostgreSQL plug-in.
- [Configuration Tracking](#) on page 73
This topic has information about configuration tracking.

Auto-Discovery

The PostgreSQL plugin discovers server resources using a SIGAR query - it looks for a process named postgres or postmaster.

After you configure the username and password for connecting to PostgreSQL, databases, tables, and indexes are auto-discovered.

The tables below shows the default conventions for how the PostgreSQL plugin names the resources it discovers.

Table 3-1. PostgreSQL and vPostgreSQL Resources

Resource Type	Name Format	Example
■ vPostgreSQL ■ PostgreSQL	Host:Port	12.555.55.55.Local:5432
■ vPostgreSQL Database ■ PostgreSQL Database	Database <i>Database</i>	Database ContractAPAC
■ vPostgreSQL Table ■ PostgreSQL Table	Table <i>Database.Schema.Table</i>	Table ContractAPAC.Contract.Customer
■ vPostgreSQL Index ■ PostgreSQL Index	Index <i>Database.Schema.Index</i>	Index ContractAPAC.Contract.Customer.Cu stID

Measurement

The PostgreSQL plugin uses the following measurement classes:

- DataBaseMeasurementPlugin.java
- ResourceMeasurement.java
- TableMeasurementPlugin.java
- PostgreSQL.java

- `ServerMeasurement.java` - uses SIGAR to obtain operating system statistics such as CPU and memory usage.

Some metrics, for instance Index Space Used and Database Space Used are only incremented after a PostgreSQL vacuum or analyze operation is performed.

Controls

This topic provides information about the control actions that are available when using the vCenter Hyperic PostgreSQL plug-in.

The following control actions are available for PostgreSQL servers:

- Stop
- Start

The following control actions are available for PostgreSQL database and table services:

- Analyze
- Vacuum
- VacuumAnalyze
- Reindex

The following control action is available for PostgreSQL index services:

- Reindex

Configuration Tracking

This topic has information about configuration tracking.

The support class that the PostgreSQL plugin uses for configuration tracking - `org.hyperic.hq.product.FileChangeTrackPlugin` - enables detailed change tracking: the change type ("add", "delete", "modify", or "rename") and the actual changes in text files. For information about the new support class, see the `FileChangeTrackPlugin`.

For PostgreSQL, the default value of the **Configuration Files** field, which specifies which files to track is:

```
data;false;.*\.conf;,*PGDATA*;false;.*\.conf;,*data;false;.*\.conf;
```

When configuration tracking is enabled, this filter causes vCenter Hyperic to track:

- In the `PostgresqlHome/data` directory, any files with a `.conf` extension.
- In the configuration directory specified by the `PGDATA` environment variable, and any files with a `.conf` extension.
- In the `PostgresqlHome/data` directory, any files with a `.conf` extension.

vPostgres 9.x server

This topic provides information about vPostgres 9.x server metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 3-2. Custom Properties Supported:

Name	Description
version	PostgreSQL Version

Supported Control Actions: stop,start

Table 3-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Number of Processes	NumProcesses	none	UTILIZATION	false	5 min
Memory Size	MemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	5 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	5 min
Cpu User Time	UserTime	ms	UTILIZATION	false	5 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	5 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	5 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	5 min
Cpu Usage	Usage	percent	UTILIZATION	true	5 min
Connections	connections	none	UTILIZATION	true	5 min
Connections Usage	connections_usage	percent	UTILIZATION	true	5 min
Connections Idle	idle_backends	none	UTILIZATION	true	5 min
Commits	xact_commit	none	THROUGHPUT	false	10 min
Commits per Second	xact_commit1s	none	THROUGHPUT	true	10 min
Rollbacks	xact_rollback	none	THROUGHPUT	false	10 min
Rollbacks per Second	xact_rollback1s	none	THROUGHPUT	true	10 min
Buffer Read	blks_read	none	THROUGHPUT	false	10 min
Buffer Read per Second	blks_read1s	none	THROUGHPUT	true	10 min
Buffer Hits	blks_hit	none	THROUGHPUT	false	10 min
Buffer Hits per Second	blks_hit1s	none	THROUGHPUT	false	10 min
Buffer Hits %	blks_hit_p	percent	THROUGHPUT	true	5 min
Rows Read	tup_fetched	none	THROUGHPUT	false	10 min
Rows Read per Second	tup_fetched1s	none	THROUGHPUT	true	10 min
Rows Write	tup_altered	none	THROUGHPUT	false	10 min
Rows Write per Second	tup_altered1s	none	THROUGHPUT	true	10 min

Configuration help

- [Configure vPostgreSQL 9.x for Monitoring](#) on page 75

Monitoring of PostgreSQL is done through the statistics collector.

- [vPostgres 9.x Table service](#) on page 75
This topic provides information about vPostgres 9.x Table service metrics.
- [vPostgres 9.x Index service](#) on page 76
This topic provides information about the vPostgres 9.x Index service metrics.
- [vPostgres 9.x DataBase service](#) on page 76
This topic provides information about the vPostgres 9.x DataBase service metrics.

Configure vPostgreSQL 9.x for Monitoring

Monitoring of PostgreSQL is done through the statistics collector.

Procedure

- 1 To collect metrics, make sure the following parameter in `postgresql.conf` is set to as follows:
`track_counts = on`
- 2 Make sure to restart PostgreSQL after making any changes.

NOTE Metrics like Index Space Used and Database Space Used will only be incremented after vacuum or analyze is run.

vPostgres 9.x Table service

This topic provides information about vPostgres 9.x Table service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Analyze, Vacuum, VacuumAnalyze, Reindex

Table 3-4. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Sequential Scans	seq_scan	none	UTILIZATION	false	10 min
Sequential Scans per Minute	seq_scan1m	none	UTILIZATION	true	10 min
Index Scans	idx_scan	none	UTILIZATION	false	10 min
Sequential Scan Rows Read	seq_tup_read	none	UTILIZATION	false	10 min
Sequential Scan Rows Read per Minute	seq_tup_read1m	none	UTILIZATION	false	10 min
Index Scan Rows Read	idx_tup_fetch	none	UTILIZATION	false	10 min
Index Scan Rows Read per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min
Number Of Row Inserts	n_tup_ins	none	UTILIZATION	false	10 min
Number Of Row Inserts per Minute	n_tup_ins1m	none	UTILIZATION	false	10 min

Table 3-4. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Number Of Row Updates	n_tup_upd	none	THROUGHPUT	true	10 min
Number Of Row Updates per Minute	n_tup_upd1m	none	THROUGHPUT	false	10 min
Number Of Row Deletes	n_tup_del	none	THROUGHPUT	false	10 min
Number Of Row Deletes per Minute	n_tup_del1m	none	THROUGHPUT	false	10 min
Data Space Used	DataSetUsed	KB	UTILIZATION	true	5 min
Index Space Used	IndexSpaceUsed	KB	UTILIZATION	true	5 min

Configuration Help

vPostgres 9.x Index service

This topic provides information about the vPostgres 9.x Index service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Reindex

Table 3-5. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Index Scans	idx_scan	none	UTILIZATION	false	10 min
Index Scans per Minute	idx_scan1m	none	UTILIZATION	true	10 min
Index Reads	idx_tup_read	none	UTILIZATION	false	10 min
Index Reads per Minute	idx_tup_read1m	none	UTILIZATION	true	10 min
Index Fetches	idx_tup_fetch	none	UTILIZATION	false	10 min
Index Fetches per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min

Configuration Help

vPostgres 9.x DataBase service

This topic provides information about the vPostgres 9.x DataBase service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Analyze, Vacuum, VacuumAnalyze, Reindex

Table 3-6. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Connections	numbackends	none	UTILIZATION	true	5 min Connections Idle
Connections Idle	idle_backends	none	UTILIZATION	false	5 min
Connections Usage	connections_usage	percent	UTILIZATION	true	5 min
Commits	xact_commit	none	THROUGHPUT	false	10 min
Commits per Second	xact_commit1s	none	THROUGHPUT	true	10 min
Rollbacks	xact_rollback	none	THROUGHPUT	false	10 min
Rollbacks per Second	xact_rollback1s	none	THROUGHPUT	true	10 min
Buffer Read	blks_read	none	THROUGHPUT	false	10 min
Buffer Read per Second	blks_read1m	none	THROUGHPUT	true	10 min
Buffer Hits	blks_hit	none	THROUGHPUT	false	10 min
Buffer Hits per Second	blks_hit1m	none	THROUGHPUT	false	10 min
Buffer Hits %	blks_hit_p	percent	THROUGHPUT	true	5 min
Rows Read	tup_fetched	none	THROUGHPUT	false	10 min
Rows Read per Second	tup_fetched1s	none	THROUGHPUT	true	10 min
Rows Write	tup_altered	none	THROUGHPUT	false	10 min
Rows Write per Second	tup_altered1s	none	THROUGHPUT	true	10 min
Locks Held	granted_locks	none	UTILIZATION	true	5 min
Locks Awaited	awaited_locks	none	UTILIZATION	false	5 min
Indexes Scans	idx_scan	none	UTILIZATION	false	10 min
Indexes Scans per Minute	idx_scan1m	none	UTILIZATION	false	10 min
Indexes Reads	idx_tup_read	none	UTILIZATION	false	10 min
Indexes Reads per Minute	idx_tup_read1m	none	UTILIZATION	true	10 min
Indexes Scan Rows Read	idx_tup_fetch	none	UTILIZATION	false	10 min
Indexes Scan Rows Read per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min
Indexes Blocks Reads	idx_blks_read	none	UTILIZATION	false	10 min
Indexes Blocks Reads per Minute	idx_blks_read1m	none	UTILIZATION	true	10 min
Indexes Blocks Hit	idx_blks_hit	none	UTILIZATION	false	10 min

Table 3-6. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Indexes Blocks Hit per Minute	idx_blks_hit1m	none	UTILIZATION	false	10 min
Tables Sequential Scans	seq_scan	none	UTILIZATION	false	10 min
Tables Sequential Scans per Minute	seq_scan1m	none	UTILIZATION	true	10 min
Tables Sequential Scan Rows Read	seq_tup_read	none	UTILIZATION	false	10 min
Tables Sequential Scan Rows Read per Minute	seq_tup_read1m	none	UTILIZATION	false	10 min
Database Size	DatabaseSize	B	UTILIZATION	false	5 min
Data Space Used	DataSpaceUsed	KB	UTILIZATION	true	5 min
Index Space Used	IndexSpaceUsed	KB	UTILIZATION	false	5 min

Configuration Help

PostgreSQL 9.x server

This topic provides information about Postgres 9.x server metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 3-7. Custom Properties Supported:

Name	Description
version	PostgreSQL Version

Supported Control Actions: stop,start

Table 3-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Number of Processes	NumProcesses	none	UTILIZATION	false	5 min
Memory Size	MemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	5 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	5 min
Cpu User Time	UserTime	ms	UTILIZATION	false	5 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	5 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	5 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	5 min

Table 3-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cpu Usage	Usage	percent	UTILIZATION	true	5 min
Connections	connections	none	UTILIZATION	true	5 min
Connections Usage	connections_usage	percent	UTILIZATION	true	5 min
Connections Idle	idle_backends	none	UTILIZATION	true	5 min
Commits	xact_commit	none	THROUGHPUT	false	10 min
Commits per Second	xact_commit1s	none	THROUGHPUT	true	10 min
Rollbacks	xact_rollback	none	THROUGHPUT	false	10 min
Rollbacks per Second	xact_rollback1s	none	THROUGHPUT	true	10 min
Buffer Read	blks_read	none	THROUGHPUT	false	10 min
Buffer Read per Second	blks_read1s	none	THROUGHPUT	true	10 min
Buffer Hits	blks_hit	none	THROUGHPUT	false	10 min
Buffer Hits per Second	blks_hit1s	none	THROUGHPUT	false	10 min
Buffer Hits %	blks_hit_p	percent	THROUGHPUT	true	5 min
Rows Read	tup_fetched	none	THROUGHPUT	false	10 min
Rows Read per Second	tup_fetched1s	none	THROUGHPUT	true	10 min
Rows Write	tup_altered	none	THROUGHPUT	false	10 min
Rows Write per Second	tup_altered1s	none	THROUGHPUT	true	10 min

Configuration help

- [Configure PostgreSQL 9.x for Monitoring](#) on page 79
Monitoring of PostgreSQL is done through the statistics collector.
- [PostgreSQL 9.x DataBase service](#) on page 80
This topic provides information about the Postgres 9.x DataBase service metrics.
- [PostgreSQL 9.x Index service](#) on page 81
This topic provides information about the Postgres 9.x Index service metrics.
- [PostgreSQL 9.x Table service](#) on page 82
This topic provides information about Postgres 9.x Table service metrics.

Configure PostgreSQL 9.x for Monitoring

Monitoring of PostgreSQL is done through the statistics collector.

Procedure

- 1 To collect metrics, make sure the following parameter in `postgresql.conf` is set to as follows:
`track_counts = on`

- 2 Make sure to restart PostgreSQL after making any changes.

NOTE Metrics like Index Space Used and Database Space Used will only be incremented after vacuum or analyze is run.

PostgreSQL 9.x DataBase service

This topic provides information about the Postgres 9.x DataBase service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Analyze, Vacuum, VacuumAnalyze, Reindex

Table 3-9. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Connections	numbackends	none	UTILIZATION	true	5 min
Connections Idle	idle_backends	none	UTILIZATION	false	5 min
Connections Usage	connections_usage	percent	UTILIZATION	true	5 min
Commits	xact_commit	none	THROUGHPUT	false	10 min
Commits per Second	xact_commit1s	none	THROUGHPUT	true	10 min
Rollbacks	xact_rollback	none	THROUGHPUT	false	10 min
Rollbacks per Second	xact_rollback1s	none	THROUGHPUT	true	10 min
Buffer Read	blks_read	none	THROUGHPUT	false	10 min
Buffer Read per Second	blks_read1m	none	THROUGHPUT	true	10 min
Buffer Hits	blks_hit	none	THROUGHPUT	false	10 min
Buffer Hits per Second	blks_hit1m	none	THROUGHPUT	false	10 min
Buffer Hits %	blks_hit_p	percent	THROUGHPUT	true	5 min
Rows Read	tup_fetched	none	THROUGHPUT	false	10 min
Rows Read per Second	tup_fetched1s	none	THROUGHPUT	true	10 min
Rows Write	tup_altered	none	THROUGHPUT	false	10 min
Rows Write per Second	tup_altered1s	none	THROUGHPUT	true	10 min
Locks Held	granted_locks	none	UTILIZATION	true	5 min
Locks Awaited	awaited_locks	none	UTILIZATION	false	5 min
Indexes Scans	idx_scan	none	UTILIZATION	false	10 min
Indexes Scans per Minute	idx_scan1m	none	UTILIZATION	false	10 min
Indexes Reads	idx_tup_read	none	UTILIZATION	false	10 min

Table 3-9. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Indexes Reads per Minute	idx_tup_read1m	none	UTILIZATION	true	10 min
Indexes Scan Rows Read	idx_tup_fetch	none	UTILIZATION	false	10 min
Indexes Scan Rows Read per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min
Indexes Blocks Reads	idx_blks_read	none	UTILIZATION	false	10 min
Indexes Blocks Reads per Minute	idx_blks_read1m	none	UTILIZATION	true	10 min
Indexes Blocks Hit	idx_blks_hit	none	UTILIZATION	false	10 min
Indexes Blocks Hit per Minute	idx_blks_hit1m	none	UTILIZATION	false	10 min
Tables Sequential Scans	seq_scan	none	UTILIZATION	false	10 min
Tables Sequential Scans per Minute	seq_scan1m	none	UTILIZATION	true	10 min
Tables Sequential Scan Rows Read	seq_tup_read	none	UTILIZATION	false	10 min
Tables Sequential Scan Rows Read per Minute	seq_tup_read1m	none	UTILIZATION	false	10 min
Database Size	DatabaseSize	B	UTILIZATION	false	5 min
Data Space Used	DataSpaceUsed	KB	UTILIZATION	true	5 min
Index Space Used	IndexSpaceUsed	KB	UTILIZATION	false	5 min

Configuration Help

PostgreSQL 9.x Index service

This topic provides information about the Postgres 9.x Index service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Reindex

Table 3-10. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Index Scans	idx_scan	none	UTILIZATION	false	10 min
Index Scans per Minute	idx_scan1m	none	UTILIZATION	true	10 min
Index Reads	idx_tup_read	none	UTILIZATION	false	10 min

Table 3-10. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Index Reads per Minute	idx_tup_read1m	none	UTILIZATION	true	10 min
Index Fetches	idx_tup_fetch	none	UTILIZATION	false	10 min
Index Fetches per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min

Configuration Help

PostgreSQL 9.x Table service

This topic provides information about Postgres 9.x Table service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Analyze, Vacuum, VacuumAnalyze, Reindex

Table 3-11. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Sequential Scans	seq_scan	none	UTILIZATION	false	10 min
Sequential Scans per Minute	seq_scan1m	none	UTILIZATION	true	10 min
Index Scans	idx_scan	none	UTILIZATION	false	10 min
Sequential Scan Rows Read	seq_tup_read	none	UTILIZATION	false	10 min
Sequential Scan Rows Read per Minute	seq_tup_read1m	none	UTILIZATION	false	10 min
Index Scan Rows Read	idx_tup_fetch	none	UTILIZATION	false	10 min
Index Scan Rows Read per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min
Number Of Row Inserts	n_tup_ins	none	UTILIZATION	false	10 min
Number Of Row Inserts per Minute	n_tup_ins1m	none	UTILIZATION	false	10 min
Number Of Row Updates	n_tup_upd	none	THROUGHPUT	true	10 min
Number Of Row Updates per Minute	n_tup_upd1m	none	THROUGHPUT	false	10 min
Number Of Row Deletes	n_tup_del	none	THROUGHPUT	false	10 min
Number Of Row Deletes per Minute	n_tup_del1m	none	THROUGHPUT	false	10 min

Table 3-11. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Data Space Used	DataSpaceUsed	KB	UTILIZATION	true	5 min
Index Space Used	IndexSpaceUsed	KB	UTILIZATION	true	5 min

Configuration Help

PostgreSQL 8.x server

This topic provides information about Postgres 8.x server metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 3-12. Custom Properties Supported:

Name	Description
version	PostgreSQL Version

Supported Control Actions: stop,start

Table 3-13. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Number of Processes	NumProcesses	none	UTILIZATION	false	5 min
Memory Size	MemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	10 min
Cpu Usage	Usage	percent	UTILIZATION	true	5 min
Connections	connections	none	UTILIZATION	true	5 min
Connections Usage	connections_usage	percent	UTILIZATION	true	5 min
Connections Idle	idle_backends	none	UTILIZATION	true	5 min
Commits	xact_commit	none	THROUGHPUT	false	10 min
Commits per Second	xact_commit1s	none	THROUGHPUT	true	10 min
Rollbacks	xact_rollback	none	THROUGHPUT	false	10 min

Table 3-13. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Rollbacks per Second	xact_rollback1s	none	THROUGHPUT	true	10 min
Buffer Read	blks_read	none	THROUGHPUT	false	10 min
Buffer Read per Second	blks_read1s	none	THROUGHPUT	true	10 min
Buffer Hits	blks_hit	none	THROUGHPUT	false	10 min
Buffer Hits per Second	blks_hit1s	none	THROUGHPUT	false	10 min
Buffer Hits %	blks_hit_p	percent	THROUGHPUT	true	5 min
Rows Read	tup_fetched	none	THROUGHPUT	false	10 min
Rows Read per Second	tup_fetched1s	none	THROUGHPUT	true	10 min
Rows Write	tup_altered	none	THROUGHPUT	false	10 min
Rows Write per Second	tup_altered1s	none	THROUGHPUT	true	10 min

Configuration help

- [Configure PostgreSQL 8.x for Monitoring](#) on page 84
Monitoring of PostgreSQL is done through the statistics collector.
- [PostgreSQL 8.x DataBase service](#) on page 84
This topic provides information about the Postgres 8.x DataBase service metrics.
- [PostgreSQL 8.x Table service](#) on page 86
This topic provides information about Postgres 8.x Table service metrics.
- [PostgreSQL 8.x Index service](#) on page 87
This topic provides information about the Postgres 9.x Index service metrics.

Configure PostgreSQL 8.x for Monitoring

Monitoring of PostgreSQL is done through the statistics collector.

Procedure

- 1 To collect metrics, make sure the following parameter in `postgresql.conf` is set to as follows:
`track_counts = on`
- 2 Make sure to restart PostgreSQL after making any changes.

NOTE Metrics like Index Space Used and Database Space Used will only be incremented after vacuum or analyze is run.

PostgreSQL 8.x DataBase service

This topic provides information about the Postgres 8.x DataBase service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Analyze, Vacuum, VacuumAnalyze, Reindex

Table 3-14. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Connections	numbackends	none	UTILIZATION	true	5 min
Connections Idle	idle_backends	none	UTILIZATION	false	5 min
Connections Usage	connections_usage	percent	UTILIZATION	true	5 min
Commits	xact_commit	none	THROUGHPUT	false	10 min
Commits per Second	xact_commit1s	none	THROUGHPUT	true	10 min
Rollbacks	xact_rollback	none	THROUGHPUT	false	10 min
Rollbacks per Second	xact_rollback1s	none	THROUGHPUT	true	10 min
Buffer Read	blks_read	none	THROUGHPUT	false	10 min
Buffer Read per Second	blks_read1m	none	THROUGHPUT	true	10 min
Buffer Hits	blks_hit	none	THROUGHPUT	false	10 min
Buffer Hits per Second	blks_hit1m	none	THROUGHPUT	false	10 min
Buffer Hits %	blks_hit_p	percent	THROUGHPUT	true	5 min
Rows Read	tup_fetched	none	THROUGHPUT	false	10 min
Rows Read per Second	tup_fetched1s	none	THROUGHPUT	true	10 min
Rows Write	tup_altered	none	THROUGHPUT	false	10 min
Rows Write per Second	tup_altered1s	none	THROUGHPUT	true	10 min
Locks Held	granted_locks	none	UTILIZATION	true	5 min
Locks Awaited	awaited_locks	none	UTILIZATION	false	5 min
Indexes Scans	idx_scan	none	UTILIZATION	false	10 min
Indexes Scans per Minute	idx_scan1m	none	UTILIZATION	false	10 min
Indexes Reads	idx_tup_read	none	UTILIZATION	false	10 min
Indexes Reads per Minute	idx_tup_read1m	none	UTILIZATION	true	10 min
Indexes Scan Rows Read	idx_tup_fetch	none	UTILIZATION	false	10 min
Indexes Scan Rows Read per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min
Indexes Blocks Reads	idx_blks_read	none	UTILIZATION	false	10 min
Indexes Blocks Reads per Minute	idx_blks_read1m	none	UTILIZATION	true	10 min
Indexes Blocks Hit	idx_blks_hit	none	UTILIZATION	false	10 min

Table 3-14. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Indexes Blocks Hit per Minute	idx_blks_hit1m	none	UTILIZATION	false	10 min
Tables Sequential Scans	seq_scan	none	UTILIZATION	false	10 min
Tables Sequential Scans per Minute	seq_scan1m	none	UTILIZATION	true	10 min
Tables Sequential Scan Rows Read	seq_tup_read	none	UTILIZATION	false	10 min
Tables Sequential Scan Rows Read per Minute	seq_tup_read1m	none	UTILIZATION	false	10 min
Database Size	DatabaseSize	B	UTILIZATION	false	5 min
Data Space Used	DataSpaceUsed	KB	UTILIZATION	true	5 min
Index Space Used	IndexSpaceUsed	KB	UTILIZATION	false	5 min

Configuration Help

PostgreSQL 8.x Table service

This topic provides information about Postgres 8.x Table service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Analyze, Vacuum, VacuumAnalyze, Reindex

Table 3-15. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Sequential Scans	seq_scan	none	UTILIZATION	false	10 min
Sequential Scans per Minute	seq_scan1m	none	UTILIZATION	true	10 min
Index Scans	idx_scan	none	UTILIZATION	false	10 min
Sequential Scan Rows Read	seq_tup_read	none	UTILIZATION	false	10 min
Sequential Scan Rows Read per Minute	seq_tup_read1m	none	UTILIZATION	false	10 min
Index Scan Rows Read	idx_tup_fetch	none	UTILIZATION	false	10 min
Index Scan Rows Read per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min
Number Of Row Inserts	n_tup_ins	none	UTILIZATION	false	10 min
Number Of Row Inserts per Minute	n_tup_ins1m	none	UTILIZATION	false	10 min

Table 3-15. Supported Metrics (Continued)

Name	Alias	Category	Units	Default On	Default Interval
Number Of Row Updates	n_tup_upd	none	THROUGHPUT	true	10 min
Number Of Row Updates per Minute	n_tup_upd1m	none	THROUGHPUT	false	10 min
Number Of Row Deletes	n_tup_del	none	THROUGHPUT	false	10 min
Number Of Row Deletes per Minute	n_tup_del1m	none	THROUGHPUT	false	10 min
Data Space Used	DataSpaceUsed	KB	UTILIZATION	true	5 min
Index Space Used	IndexSpaceUsed	KB	UTILIZATION	true	5 min

Configuration Help

PostgreSQL 8.x Index service

This topic provides information about the Postgres 9.x Index service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Reindex

Table 3-16. Supported Metrics

Name	Alias	Category	Units	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Index Scans	idx_scan	none	UTILIZATION	false	10 min
Index Scans per Minute	idx_scan1m	none	UTILIZATION	true	10 min
Index Reads	idx_tup_read	none	UTILIZATION	false	10 min
Index Reads per Minute	idx_tup_read1m	none	UTILIZATION	true	10 min
Index Fetches	idx_tup_fetch	none	UTILIZATION	false	10 min
Index Fetches per Minute	idx_tup_fetch1m	none	UTILIZATION	false	10 min

Configuration Help

WebLogic Server

This section has instructions for configuring the vCenter Hyperic agent to monitor WebLogic Server (WLS), and information to help you understand and solve problems with the WLS auto-discovery process.

- [WebLogic Configuration Overview](#) on page 90
This section is an overview of how you configure vCenter Hyperic to monitor a WebLogic Server domain. See the following section for detailed instructions.
- [Configure WebLogic Server Monitoring](#) on page 90
Perform the steps in the follow sections for each WebLogic Server domain you want to monitor.
- [Weblogic 9.1 Server](#) on page 92
This topic provides information about Weblogic 9.1 Server metrics.
- [Weblogic 9.2 Server](#) on page 104
This topic provides information about the Weblogic 9.2 Server metrics.
- [Weblogic 10.0 Server](#) on page 117
This topic provides information about the Weblogic 10.0 Server metrics.
- [Weblogic 10.1 Server](#) on page 130
- [Weblogic 10.2 Server](#) on page 143
This topic provides information about the Weblogic 10.2 ServerWeblogic 10.2 Server metrics.
- [Weblogic 10.3 Server](#) on page 156
This topic provides information about the Weblogic 10.3 Server metrics.
- [Weblogic Admin 9.1 Server](#) on page 168
This topic provides information about the Weblogic Admin 9.1 Server metrics.
- [Weblogic Admin 9.2 Server](#) on page 181
This topic provides information about the Weblogic Admin 9.2 Server metrics.
- [Weblogic Admin 10.0 Server](#) on page 194
This topic provides information about the Weblogic Admin 10.0 Server metrics.
- [Weblogic Admin 10.1 Server](#) on page 207
This topic provides information about the Weblogic Admin 10.1 Server metrics.
- [Weblogic Admin 10.2 Server](#) on page 220
This topic provides information about the Weblogic Admin 10.2 Server metrics.

- [Weblogic Admin 10.3 Server](#) on page 232
This topic provides information about the Weblogic Admin 10.3 Server metrics.
- [Weblogic NodeManager 9.1 Server](#) on page 244
This topic provides information about the Weblogic NodeManager 9.1 Server metrics.
- [Weblogic NodeManager 9.2 Server](#) on page 244
This topic provides information about the Weblogic NodeManager 9.2 Server metrics.
- [Weblogic NodeManager 10.0 Server](#) on page 244
This topic provides information about the Weblogic NodeManager 10.0 Server metrics.
- [Weblogic NodeManager 10.1 Server](#) on page 245
This topic provides information about the Weblogic NodeManager 10.1 Server metrics.
- [Weblogic NodeManager 10.2 Server](#) on page 245
This topic provides information about the Weblogic NodeManager 10.2 Server metrics.
- [Weblogic NodeManager 10.3 Server](#) on page 245
This topic provides information about the Weblogic NodeManager 10.3 Server metrics.

WebLogic Configuration Overview

This section is an overview of how you configure vCenter Hyperic to monitor a WebLogic Server domain. See the following section for detailed instructions.

- 1 The vCenter Hyperic agent auto-discovers the WLS Administration Server. For this to happen:
 - The vCenter Hyperic agent and the WLS plugin must be installed on administration server host. (The WLS plugin is part of the standard agent installation; you do not need to install it separately.)
 - For WLS 9.0 and later, the agent must run on a 1.5 JRE.
 - The agent must have correct permissions to access the admin server configuration file.
 - If the admin server requires SSL, the agent must be configured accordingly.
- 2 You add the auto-discovered admin server to Hyperic inventory. In terms of the vCenter Hyperic inventory model, the inventory type of the admin server is "server".
- 3 In vCenter Hyperic, you edit configuration properties for the newly-added server with the admin server's username and password.
- 4 The agent determines the Managed Servers in the WLS domain from the domain configuration file and adds them to inventory. In terms of the vCenter Hyperic inventory model, the inventory type of the managed server is "server".

The agent adds a managed server as a child of an existing platform in inventory, which corresponds to the machine that hosts the managed server.

After the administration and managed servers are added to inventory, you tailor the monitoring settings, as desired.

Configure WebLogic Server Monitoring

Perform the steps in the follow sections for each WebLogic Server domain you want to monitor.

- [Specify the Agent JRE](#) on page 91
The vCenter Hyperic agent must run on a 1.5 JRE to monitor WebLogic Server 9.0 and higher. For earlier versions, a 1.4 JRE is supported.

- [Run Agent with Required Permissions](#) on page 91

To discover the WLS Administration Server, the vCenter Hyperic agent must run under an account with permissions that allow it to obtain the administration server's process arguments, and its current working directory.

- [Configure WLS Location](#) on page 92

This topic provides instructions for configuring the WLS location.

Specify the Agent JRE

The vCenter Hyperic agent must run on a 1.5 JRE to monitor WebLogic Server 9.0 and higher. For earlier versions, a 1.4 JRE is supported.

vCenter Hyperic recommends you run the agent using the same JRE as WebLogic Server.

Procedure

- ◆ On Unix-based platforms define the location of the WebLogic Server JRE using the HQ_JAVA_HOME environment variable, for example:

```
HQ_JAVA_HOME=/usr/local/bean/jdk150_04
```

For vCenter Hyperic agent v4.x on Windows platforms you must specify HQ_JAVA_HOME as a system variable. For more information, see *Getting Started with vCenter Hyperic*.

Run Agent with Required Permissions

To discover the WLS Administration Server, the vCenter Hyperic agent must run under an account with permissions that allow it to obtain the administration server's process arguments, and its current working directory.

Procedure

- 1 On Unix-based platforms, ensure that the vCenter Hyperic agent has the permissions it needs by running one of the following:

- Run the vCenter Hyperic agent as the same user id that runs the Administration Server.
- Run the vCenter Hyperic agent as root.

After the agent has discovered the Administration Server, it no longer needs the permissions required for process discovery. (The agent uses JMX to discover the WLS Managed Servers.)

- 2 After discovery of the admin server, update the permissions to the Hyperic agent directory. As superuser, run the following command in the agent directory:

```
chown user -R
```

where user is the username under which you will henceforth run the agent, for example, *hqadmin*.

NOTE If you cannot run the agent as the Administration Server user or as root, follow the directions in *Add Administration Server Manually*

Configure WLS Location

This topic provides instructions for configuring the WLS location.

Procedure

- ◆ Define the installation path in `agent.properties`. For example:

```
weblogic.installpath=/usr/local/bean/weblogic92
```

NOTE If you add the administration server to inventory manually, specify the installation path from vCenter Hyperic user interface, rather than in the properties file.

Weblogic 9.1 Server

This topic provides information about Weblogic 9.1 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-1. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min

Table 4-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min

Table 4-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Time Service Exception Count per Minute	TimeSvcExceptio ns1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMi n	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTo tal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsAc tive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockou t	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockou t1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1 m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsW hileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsW hileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1 m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbag eCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbag eCollectionCount 1m	none	UTILIZATION	false	10 min

Table 4-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

NOTE Weblogic 9.1 server types are configured via AutoDiscovery.

See Weblogic Admin 9.1 Server for product setup information.

Weblogic 9.1 Application Service

This topic provides information about Weblogic 9.1 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.1 Entity EJB Service

This topic provides information about Weblogic 9.1 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-4. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min

Table 4-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.1 Execute Queue Service

This topic provides information about Weblogic 9.1 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.1 JDBC Connection Pool Service

This topic provides information about Weblogic 9.1 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-6. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-7. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min

Table 4-7. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.1 JMS Destination Service

This topic provides information about the Weblogic 9.1 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min

Table 4-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic 9.1 JMS Server Service

This topic provides information about the Weblogic 9.1 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-9. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min

Table 4-9. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic 9.1 JTA Resource Service

This topic provides information about Weblogic 9.1 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-10. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min

Table 4-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic 9.1 Message Driven EJB Service

This topic provides information about the Weblogic 9.1 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-11. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.1 Stateful EJB Service

This topic provides information about the Weblogic 9.1 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-12. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min

Table 4-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.1 Webapp Service

This topic provides information about the Weblogic 9.1 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-13. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-14. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min

Table 4-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Enable Webapp Response Time

This topic provides instructions for enabling the Webapp response time.

Procedure

- 1 Edit the `${webapp.dir}/WEB-INF/web.xml` file, adding:


```
<filter> <filter-name>CovalentJMXFilter</filter-name> <filter-class>org.hyperic.hq.plugin.servlet.filter.JMXFilter</filter-class> <init-param> <param-name>responseTimeLogDir</param-name> <param-value>${installpath}</param-value> </init-param> </filter> <filter-mapping> <filter-name>CovalentJMXFilter</filter-name> <url-pattern>/*</url-pattern> </filter-mapping>
```
- 2 Add the filter JAR:


```
% cp agent-${HQVersion}/product_connectors/servlet/libs/hq-filter.jar \ ${webapp.dir}/WEB-INF/lib
```
- 3 Redeploy the webapp or restart the WebLogic server.

Weblogic 9.2 Server

This topic provides information about the Weblogic 9.2 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-15. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-16. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min

Table 4-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min

Table 4-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min

Table 4-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

NOTE Weblogic 9.2 server types are configured via AutoDiscovery.

See Weblogic Admin 9.2 Server for product setup information.

Weblogic 9.2 Application Service

This topic provides information about the Weblogic 9.2 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-17. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 Entity EJB Service

This topic provides information about the Weblogic 9.2 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-18. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min

Table 4-18. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 Execute Queue Service

This topic provides information about the Weblogic 9.2 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-19. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 JDBC Connection Pool Service

This topic provides information for the Weblogic 9.2 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-20. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-21. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 JMS Destination Service

This topic provides information about the Weblogic 9.2 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-22. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min

Table 4-22. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic 9.2 JMS Server Service

This topic provides information about the Weblogic 9.2 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-23. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min

Table 4-23. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic 9.2 JTA Resource Service

This topic provides information about the Weblogic 9.2 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-24. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic 9.2 Message Driven EJB Service

This topic provides information about the Weblogic 9.2 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-25. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 Stateful EJB Service

This topic provides information about the Weblogic 9.2 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-26. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 Stateless EJB Service

This topic provides information about the Weblogic 9.2 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-27. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 9.2 Webapp Service

This topic provides information about the Weblogic 9.2 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-28. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-29. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

For more information, refer to [“Enable Webapp Response Time,”](#) on page 104.

Configuration Help

Weblogic 10.0 Server

This topic provides information about the Weblogic 10.0 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-30. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-31. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min

Table 4-31. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min

Table 4-31. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min

Table 4-31. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

NOTE Weblogic 10.0 server types are configured via AutoDiscovery.

See Weblogic Admin 10.0 Server for product setup information.

Weblogic 10.0 Application Service

This topic provides information about the Weblogic 10.0 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-32. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 Entity EJB Service

This topic provides information about the Weblogic 10.0 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-33. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min

Table 4-33. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 Execute Queue Service

This topic provides information about the Weblogic 10.0 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-34. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 JDBC Connection Pool Service

This topic provides information about the Weblogic 10.0 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-35. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-36. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 JMS Destination Service

This topic provides information about the Weblogic 10.0 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-37. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min

Table 4-37. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic 10.0 JMS Server Service

This topic provides information about the Weblogic 10.0 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-38. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min

Table 4-38. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic 10.0 JTA Resource Service

This topic provides information about the Weblogic 10.0 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-39. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min

Table 4-39. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Commits per Minute	TxHeuristicCom mits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHaza rd	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHaza rd1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixe d	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixe d1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollb acks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollb acks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic 10.0 Message Driven EJB Service

This topic provides information about the Weblogic 10.0 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-40. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 Stateful EJB Service

This topic provides information about the Weblogic 10.0 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-41. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 Stateless EJB Service

This topic provides information about the Weblogic 10.0 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-42. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.0 Webapp Service

This topic provides information about the Weblogic 10.0 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-43. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-44. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

For more information, refer to [“Enable Webapp Response Time,”](#) on page 104.

Configuration Help

Weblogic 10.1 Server

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-45. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-46. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min

Table 4-46. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min

Table 4-46. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min

Table 4-46. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

NOTE Weblogic 10.1 server types are configured via AutoDiscovery.

See Weblogic Admin 10.1 Server for product setup information.

Weblogic 10.1 Application Service

This topic provides information about the Weblogic 10.1 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-47. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 Entity EJB Service

This topic provides information about the Weblogic 10.1 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-48. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min

Table 4-48. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 Execute Queue Service

This topic provides information about the Weblogic 10.1 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-49. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 JDBC Connection Pool Service

This topic provides information about the Weblogic 10.1 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-50. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-51. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min

Table 4-51. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 JMS Destination Service

This topic provides information about the Weblogic 10.1 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-52. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min

Table 4-52. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic 10.1 JMS Server Service

This topic provides information about the Weblogic 10.1 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-53. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min

Table 4-53. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic 10.1 JTA Resource Service

This topic provides information about the Weblogic 10.1 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-54. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min

Table 4-54. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic 10.1 Message Driven EJB Service

This topic provides information about the Weblogic 10.1 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-55. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-55. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 Stateful EJB Service

This topic provides information about the Weblogic 10.1 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-56. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min

Table 4-56. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 Stateless EJB Service

This topic provides information about the Weblogic 10.1 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-57. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-57. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.1 Webapp Service

This topic provides information about the Weblogic 10.1 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-58. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-59. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

For more information, refer to [“Enable Webapp Response Time,”](#) on page 104.

Configuration Help

Weblogic 10.2 Server

This topic provides information about the Weblogic 10.2 ServerWeblogic 10.2 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-60. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-61. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSSrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSSrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min

Table 4-61. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA System Transactions Rolled Back	JTATxSysRolled Back	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolled Back1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolled Back	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolled Back1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolled Back	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolled Back1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics 1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min

Table 4-61. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min

Table 4-61. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

NOTE Weblogic 10.2 server types are configured via AutoDiscovery.

See Weblogic Admin 10.2 Server for product setup information.

Weblogic 10.2 Application Service

This topic provides information about the Weblogic 10.2 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-62. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 Entity EJB Service

This topic provides information about the Weblogic 10.2 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-63. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min

Table 4-63. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 Execute Queue Service

This topic provides information about the Weblogic 10.2 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-64. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 JDBC Connection Pool Service

This topic provides information about the Weblogic 10.2 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-65. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-66. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min

Table 4-66. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 JMS Destination Service

This topic provides information about the Weblogic 10.2 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-67. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min

Table 4-67. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic 10.2 JMS Server Service

This topic provides information about the Weblogic 10.2 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-68. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min

Table 4-68. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic 10.2 JTA Resource Service

This topic provides information about the Weblogic 10.2 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-69. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min

Table 4-69. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic 10.2 Message Driven EJB Service

This topic provides information about the Weblogic 10.2 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-70. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-70. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 Stateful EJB Service

This topic provides information about the Weblogic 10.2 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-71. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min

Table 4-71. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 Stateless EJB Service

This topic provides information about the Weblogic 10.2 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-72. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-72. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.2 Webapp Service

This topic provides information about the Weblogic 10.2 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-73. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-74. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

For more information, refer to [“Enable Webapp Response Time,”](#) on page 104.

Configuration Help

Weblogic 10.3 Server

This topic provides information about the Weblogic 10.3 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-75. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-76. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min

Table 4-76. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA System Transactions Rolled Back	JTATxSysRolled Back	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolled Back1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolled Back	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolled Back1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolled Back	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolled Back1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics 1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min

Table 4-76. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min

Table 4-76. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

NOTE Weblogic 10.3 server types are configured via AutoDiscovery.

See Weblogic Admin 10.3 Server for product setup information.

Weblogic 10.3 Application Service

This topic provides information about the Weblogic 10.3 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-77. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.3 Entity EJB Service

This topic provides information about the Weblogic 10.3 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-78. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min

Table 4-78. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.3 Execute Queue Service

This topic provides information about the Weblogic 10.3 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-79. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.3 JDBC Connection Pool Service

This topic provides information about the Weblogic 10.3 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-80. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-81. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min

Table 4-81. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.3 JMS Destination Service

This topic provides information about the Weblogic 10.3 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-82. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min

Table 4-82. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic 10.3 JMS Server Service

This topic provides information about the Weblogic 10.3 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-83. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min

Table 4-83. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic 10.3 JTA Resource Service

This topic provides information about the Weblogic 10.3 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-84. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min

Table 4-84. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic 10.3 Message Driven EJB Service

This topic provides information about the Weblogic 10.3 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-85. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-85. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.3 Stateful EJB Service

This topic provides information about the Weblogic 10.3 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-86. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min

Table 4-86. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic 10.3 Webapp Service

This topic provides information about the Weblogic 10.3 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-87. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-88. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min

Table 4-88. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

For more information, refer to [“Enable Webapp Response Time,”](#) on page 104.

Configuration Help

Weblogic Admin 9.1 Server

This topic provides information about the Weblogic Admin 9.1 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-89. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-90. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min

Table 4-90. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min

Table 4-90. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Time Service Exception Count per Minute	TimeSvcExceptio ns1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMi n	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTo tal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsAc tive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockou t	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockou t1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1 m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsW hileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsW hileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1 m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbag eCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbag eCollectionCount 1m	none	UTILIZATION	false	10 min

Table 4-90. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

The `weblogic.installpath` may need to be configured in `agent.properties`, for example:
`weblogic.installpath=/usr/local/bean/weblogic91.`

The plugin will auto-configure this value using the Windows registry or process table if WebLogic is already running.

Optional SSL support requires the following properties in `agent.properties`:

- `weblogic.security.TrustKeyStore=DemoTrust`
- `weblogic.security.CustomTrustKeyStoreFileName=${installpath.escaped}/DemoTrust.jks`
- `weblogic.security.SSL.ignoreHostnameVerification=true`

Weblogic Admin 9.1 Application Service

This topic provides information about the Weblogic Admin 9.1 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-91. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 Entity EJB Service

This topic provides information about the Weblogic Admin 9.1 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-92. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min

Table 4-92. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 Execute Queue Service

This topic provides information about the Weblogic Admin 9.1 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-93. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 JDBC Connection Pool Service

This topic provides information about the Weblogic Admin 9.1 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-94. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-95. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min

Table 4-95. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 JMS Destination Service

This topic provides information about the Weblogic Admin 9.1 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-96. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min

Table 4-96. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic Admin 9.1 JMS Server Service

This topic provides information about the Weblogic Admin 9.1 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-97. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min

Table 4-97. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic Admin 9.1 JTA Resource Service

This topic provides information about the Weblogic Admin 9.1 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-98. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min

Table 4-98. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic Admin 9.1 Message Driven EJB Service

This topic provides information about the Weblogic Admin 9.1 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-99. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-99. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 Stateful EJB Service

This topic provides information about the Weblogic Admin 9.1 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-100. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min

Table 4-100. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 Stateless EJB Service

This topic provides information about the Weblogic Admin 9.1 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-101. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min

Table 4-101. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.1 Webapp Service

This topic provides information about the Weblogic Admin 9.1 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-102. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-103. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 Server

This topic provides information about the Weblogic Admin 9.2 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-104. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-105. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min

Table 4-105. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA System Transactions Rolled Back	JTATxSysRolled Back	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolled Back1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolled Back	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolled Back1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolled Back	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolled Back1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics 1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min

Table 4-105. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min

Table 4-105. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

The `weblogic.installpath` path may need to be configured in `agent.properties`, for example:
`weblogic.installpath=/usr/local/bean/weblogic91.`

The plugin will auto-configure this value using the Windows registry or process table if WebLogic is already running.

Optional SSL support requires the following properties in `agent.properties`:

- `weblogic.security.TrustKeyStore=DemoTrust`
- `weblogic.security.CustomTrustKeyStoreFileName=${installpath.escaped}/DemoTrust.jks`
- `weblogic.security.SSL.ignoreHostnameVerification=true`

Weblogic Admin 9.2 Application Service

This topic provides information about the Weblogic Admin 9.2 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-106. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 Entity EJB Service

This topic provides information about the Weblogic Admin 9.2 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-107. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min

Table 4-107. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 Execute Queue Service

This topic provides information about the Weblogic Admin 9.2 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-108. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 JDBC Connection Pool Service

This topic provides information about the Weblogic Admin 9.2 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-109. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-110. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 JMS Destination Service

This topic provides information about the Weblogic Admin 9.2 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-111. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min

Table 4-111. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic Admin 9.2 JMS Server Service

This topic provides information about the Weblogic Admin 9.2 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-112. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min

Table 4-112. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic Admin 9.2 JTA Resource Service

This topic provides information about the Weblogic Admin 9.2 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-113. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min

Table 4-113. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Heuristic Commits per Minute	TxHeuristicCom mits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHaza rd	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHaza rd1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixe d	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixe d1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollb acks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollb acks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic Admin 9.2 Message Driven EJB Service

This topic provides information about the Weblogic Admin 9.2 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-114. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 Stateful EJB Service

This topic provides information about the Weblogic Admin 9.2 Stateful EJB Service metric.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-115. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 Stateless EJB Service

This topic provides information about the Weblogic Admin 9.2 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-116. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 9.2 Webapp Service

This topic provided information about the Weblogic Admin 9.2 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-117. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-118. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 Server

This topic provides information about the Weblogic Admin 10.0 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-119. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-120. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSSrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSSrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min

Table 4-120. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min

Table 4-120. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min

Table 4-120. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

weblogic.installpath may need to be configured in agent.properties, for example:

weblogic.installpath=/usr/local/bean/weblogic91.

The plugin will auto-configure this value using the Windows registry or process table if WebLogic is already running.

Optional SSL support requires the following properties in agent.properties:

- weblogic.security.TrustKeyStore=DemoTrust.
- weblogic.security.CustomTrustKeyStoreFileName=\${installpath.escaped}/DemoTrust.jks.
- weblogic.security.SSL.ignoreHostnameVerification=true.

Weblogic Admin 10.0 Application Service

This topic provides information about the Weblogic Admin 10.0 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-121. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 Entity EJB Service

This topic provides information about the Weblogic Admin 10.0 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-122. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min

Table 4-122. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 Execute Queue Service

This topic provides information about the Weblogic Admin 10.0 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-123. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 JDBC Connection Pool Service

This topic provides information about the Weblogic Admin 10.0 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-124. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-125. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 JMS Destination Service

This topic provides information about the Weblogic Admin 10.0 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-126. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min

Table 4-126. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic Admin 10.0 JMS Server Service

This topic provides information about the Weblogic Admin 10.0 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-127. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min

Table 4-127. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic Admin 10.0 JTA Resource Service

This topic provides information about the Weblogic Admin 10.0 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-128. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic Admin 10.0 Message Driven EJB Service

This topic provides information about the Weblogic Admin 10.0 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-129. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 Stateful EJB Service

This topic provides information about the Weblogic Admin 10.0 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-130. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 Stateless EJB Service

This topic provides information about the Weblogic Admin 10.0 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-131. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.0 Webapp Service

This topic provides information about the Weblogic Admin 10.0 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-132. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-133. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 Server

This topic provides information about the Weblogic Admin 10.1 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-134. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-135. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSSrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSSrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min

Table 4-135. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min

Table 4-135. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min

Table 4-135. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

weblogic.installpath may need to be configured in agent.properties, for example:

```
weblogic.installpath=/usr/local/bean/weblogic91.
```

The plugin will auto-configure this value using the Windows registry or process table if WebLogic is already running.

Optional SSL support requires the following properties in agent.properties:

- weblogic.security.TrustKeyStore=DemoTrust
- weblogic.security.CustomTrustKeyStoreFileName=\${installpath.escaped}/DemoTrust.jks
- weblogic.security.SSL.ignoreHostnameVerification=true

Weblogic Admin 10.1 Application Service

This topic provides information about the Weblogic Admin 10.1 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-136. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 Entity EJB Service

This topic provides information about the Weblogic Admin 10.1 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-137. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min

Table 4-137. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 Execute Queue Service

This topic provides information about the Weblogic Admin 10.1 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-138. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 JDBC Connection Pool Service

This topic provides information about the Weblogic Admin 10.1 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-139. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-140. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 JMS Destination Service

This topic provides information about the Weblogic Admin 10.1 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-141. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min

Table 4-141. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic Admin 10.1 JMS Server Service

This topic provides information about the Weblogic Admin 10.1 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-142. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min

Table 4-142. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic Admin 10.1 JTA Resource Service

This topic provides information about the Weblogic Admin 10.1 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-143. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic Admin 10.1 Message Driven EJB Service

This topic provides information about the Weblogic Admin 10.1 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-144. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 Stateful EJB Service

This topic provides information about the Weblogic Admin 10.1 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-145. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 Stateless EJB Service

This topic provides information about the Weblogic Admin 10.1 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-146. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.1 Webapp Service

This topic provides information about the Weblogic Admin 10.1 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-147. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-148. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 Server

This topic provides information about the Weblogic Admin 10.2 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-149. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-150. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSSrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSSrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min

Table 4-150. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min

Table 4-150. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min

Table 4-150. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

weblogic.installpath may need to be configured in agent.properties, for example:

```
weblogic.installpath=/usr/local/boa/weblogic91.
```

The plugin will auto-configure this value using the Windows registry or process table if WebLogic is already running.

Optional SSL support requires the following properties in agent.properties:

- weblogic.security.TrustKeyStore=DemoTrust.
- weblogic.security.CustomTrustKeyStoreFileName=\${installpath.escaped}/DemoTrust.jks.
- weblogic.security.SSL.ignoreHostnameVerification=true.

Weblogic Admin 10.2 Application Service

This topic provides information about the Weblogic Admin 10.2 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-151. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 Entity EJB Service

This topic provides information about the Weblogic Admin 10.2 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-152. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min

Table 4-152. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 Execute Queue Service

This topic provides information about the Weblogic Admin 10.2 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-153. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 JDBC Connection Pool

This topic provides information about the Weblogic Admin 10.2 JDBC Connection Pool metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-154. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-155. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 JMS Destination Service

This topic provides information about the Weblogic Admin 10.2 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-156. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min

Table 4-156. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic Admin 10.2 JMS Server Service

This topic provides information about the Weblogic Admin 10.2 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-157. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min

Table 4-157. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic Admin 10.2 JTA Resource Service

This topic provides information about the Weblogic Admin 10.2 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-158. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic Admin 10.2 Message Driven EJB Service

This topic provides information about the Weblogic Admin 10.2 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-159. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 Stateless EJB Service

This topic provides information about the Weblogic Admin 10.2 Stateless EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-160. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.2 Webapp Service

This topic provides information about the Weblogic Admin 10.2 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-161. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-162. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 Server

This topic provides information about the Weblogic Admin 10.3 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 4-163. Custom Properties Supported

Name	Description
ServerVersion	Server Version
JavaVersion	Java Version
JavaVendor	Java Vendor

Supported Control Actions: start, stop, runGarbageCollector

Table 4-164. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Active Connections	JMSConnActive	none	UTILIZATION	false	5 min
JMS Total Connections	JMSConnTotal	none	UTILIZATION	false	10 min
JMS Total Connections per Minute	JMSConnTotal1m	none	UTILIZATION	false	10 min
JMS Active Servers	JMSsrvActive	none	UTILIZATION	false	5 min
JMS Total Servers	JMSsrvTotal	none	UTILIZATION	false	5 min
JTA Seconds Active	JTASecActive	sec	UTILIZATION	false	10 min

Table 4-164. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Seconds Active per Minute	JTASecActive1m	sec	UTILIZATION	false	10 min
JTA Transactions Rolled Back	JTATxRolledBack	none	UTILIZATION	false	10 min
JTA Transactions Rolled Back per Minute	JTATxRolledBack1m	none	UTILIZATION	true	10 min
JTA System Transactions Rolled Back	JTATxSysRolledBack	none	UTILIZATION	false	10 min
JTA System Transactions Rolled Back per Minute	JTATxSysRolledBack1m	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back	JTATxAppRolledBack	none	UTILIZATION	false	10 min
JTA App Transactions Rolled Back per Minute	JTATxAppRolledBack1m	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back	JTATxResRolledBack	none	UTILIZATION	false	10 min
JTA Resource Transactions Rolled Back per Minute	JTATxResRolledBack1m	none	UTILIZATION	false	10 min
JTA Transaction Heuristics	JTATxHeuristics	none	THROUGHPUT	false	10 min
JTA Transaction Heuristics per Minute	JTATxHeuristics1m	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned	JTATxAbandoned	none	THROUGHPUT	false	10 min
JTA Transactions Abandoned per Minute	JTATxAbandoned1m	none	THROUGHPUT	false	10 min
JTA Total Transactions	JTATxTotal	none	THROUGHPUT	false	10 min
JTA Total Transactions per Minute	JTATxTotal1m	none	THROUGHPUT	true	10 min
JTA Transaction Rollback Timeouts	JTATxRollbackTimeouts	none	THROUGHPUT	false	10 min
JTA Transaction Rollback Timeouts per Minute	JTATxRollbackTimeouts1m	none	THROUGHPUT	false	10 min
JTA Active Transactions	JTATxActive	none	THROUGHPUT	false	10 min

Table 4-164. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JTA Active Transactions per Minute	JTATxActive1m	none	THROUGHPUT	false	10 min
JTA Committed Transactions	JTATxCommitted	none	THROUGHPUT	false	10 min
JTA Committed Transactions per Minute	JTATxCommitted1m	none	THROUGHPUT	false	10 min
Server Availability	Availability	percentage	AVAILABILITY	true	5 min
Time Service Exception Count	TimeSvcExceptions	none	UTILIZATION	false	10 min
Time Service Exception Count per Minute	TimeSvcExceptions1m	none	UTILIZATION	false	10 min
Time Service Executions Per Minute	TimeSvcExPerMin	none	UTILIZATION	false	5 min
Time Service Scheduled Triggers	TimeSvcTriggers	none	UTILIZATION	false	5 min
Connector Service Total Pools	ConnSvcPoolsTotal	none	UTILIZATION	false	5 min
Connector Service Active Pools	ConnSvcPoolsActive	none	UTILIZATION	false	5 min
User Lockout Total	NumUserLockout	none	THROUGHPUT	false	10 min
User Lockout Total per Minute	NumUserLockout1m	none	THROUGHPUT	false	10 min
Unlocked Users	UnlockedUsers	none	THROUGHPUT	false	10 min
Unlocked Users per Minute	UnlockedUsers1m	none	THROUGHPUT	false	10 min
Login Attempts While Locked	LoginAttemptsWhileLocked	none	THROUGHPUT	false	10 min
Login Attempts While Locked per Minute	LoginAttemptsWhileLocked1m	none	THROUGHPUT	false	10 min
Invalid Login Attempts	InvalidLogins	none	THROUGHPUT	false	10 min
Invalid Login Attempts per Minute	InvalidLogins1m	none	THROUGHPUT	false	10 min
Sockets Open	SocketsOpen	none	UTILIZATION	true	5 min
Sockets Opened	SocketsOpened	none	UTILIZATION	false	10 min
Sockets Opened per Minute	SocketsOpened1m	none	UTILIZATION	false	10 min
Restarts	Restarts	none	UTILIZATION	false	10 min
Restarts per Minute	Restarts1m	none	UTILIZATION	false	10 min

Table 4-164. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Free Memory	FreeMemory	B	UTILIZATION	true	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	false	5 min
JVM Total Garbage Collection Count	JVMTotalGarbageCollectionCount	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Count per Minute	JVMTotalGarbageCollectionCount1m	none	UTILIZATION	false	10 min
JVM Total Garbage Collection Time	JVMTotalGarbageCollectionTime	ms	PERFORMANCE	false	10 min
JVM Total Garbage Collection Time per Minute	JVMTotalGarbageCollectionTime1m	ms	PERFORMANCE	false	10 min
JVM Total Nursery Size	TotalMemory	B	UTILIZATION	false	5 min
JVM Number Of Daemon Threads	JVMNumberOfDaemonThreads	none	UTILIZATION	false	5 min

Configuration Help

weblogic.installpath may need to be configured in agent.properties, for example:

```
weblogic.installpath=/usr/local/beat/weblogic91.
```

The plugin will auto-configure this value using the Windows registry or process table if WebLogic is already running.

Optional SSL support requires the following properties in agent.properties:

- weblogic.security.TrustKeyStore=DemoTrust.
- weblogic.security.CustomTrustKeyStoreFileName=\${installpath.escaped}/DemoTrust.jks.
- weblogic.security.SSL.ignoreHostnameVerification=true.

Weblogic Admin 10.3 Application Service

This topic provides information about the Weblogic Admin 10.3 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-165. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Application Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 Entity EJB Service

This topic provides information about the Weblogic Admin 10.3 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-166. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min

Table 4-166. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 Execute Queue Service

This topic provides information about the Weblogic Admin 10.3 Execute Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-167. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Serviced Requests	Requests	none	THROUGHPUT	false	10 min
Serviced Requests per Minute	Requests1m	none	THROUGHPUT	true	10 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Pending Requests	PendingRequests	none	THROUGHPUT	true	5 min
Exq Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 JDBC Connection Pool Service

This topic provides information about the Weblogic Admin 10.3 JDBC Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 4-168. Custom Properties Supported

Name	Description
URL	JDBC URL
DriverName	JDBC Driver Name

Supported Control Actions: pause, stop, restart, start, shrink

Table 4-169. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Leaked Connections	Leaked	none	UTILIZATION	false	10 min
Leaked Connections per Minute	Leaked1m	none	UTILIZATION	true	10 min
Total Connections	Total	none	UTILIZATION	false	10 min
Total Connections per Minute	Total1m	none	UTILIZATION	false	10 min
Active Connections	Active	none	UTILIZATION	true	5 min
Max Connections	MaxCapacity	none	UTILIZATION	false	10 min
Max Connections per Minute	MaxCapacity1m	none	UTILIZATION	false	10 min
Waiting For Connection Current Count	WaitersCurrent	none	UTILIZATION	true	5 min
Failures to Reconnect	ReconnectFailures	none	UTILIZATION	false	10 min
Failures to Reconnect per Minute	ReconnectFailures1m	none	UTILIZATION	false	10 min
JDBC Pool Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 JMS Destination Service

This topic provides information about the Weblogic Admin 10.3 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-170. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Destination Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min

Table 4-170. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Consumers Current	ConsumersCurrent	none	UTILIZATION	true	5 min
Consumers Total	ConsumersTotal	none	UTILIZATION	false	10 min
Consumers Total per Minute	ConsumersTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min

Configuration Help

Weblogic Admin 10.3 JMS Server Service

This topic provides information about the Weblogic Admin 10.3 JMS Server Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-171. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JMS Server Availability	Availability	percentage	AVAILABILITY	true	10 min
Bytes Current	BytesCurrent	B	THROUGHPUT	false	5 min
Bytes Pending	BytesPending	B	THROUGHPUT	false	5 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min

Table 4-171. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Received per Minute	BytesReceived1m	B	THROUGHPUT	true	10 min
Bytes Threshold Time	BytesThresholdTime	ms	PERFORMANCE	false	10 min
Bytes Threshold Time per Minute	BytesThresholdTime1m	ms	PERFORMANCE	true	10 min
Destinations Current	DestinationsCurrent	none	UTILIZATION	true	5 min
Destinations Total	DestinationsTotal	none	UTILIZATION	false	10 min
Destinations Total per Minute	DestinationsTotal1m	none	UTILIZATION	false	10 min
Messages Current	MessagesCurrent	none	THROUGHPUT	false	5 min
Messages Pending	MessagesPending	none	THROUGHPUT	false	5 min
Messages Received	MessagesReceived	none	THROUGHPUT	false	10 min
Messages Received per Minute	MessagesReceived1m	none	THROUGHPUT	false	10 min
Messages Threshold	MessagesThresholdTime	ms	PERFORMANCE	false	10 min
Messages Threshold per Minute	MessagesThresholdTime1m	ms	PERFORMANCE	false	10 min
Session Pools Current	SessionPoolsCurrent	none	UTILIZATION	false	5 min
Session Pools Total	SessionPoolsTotal	none	THROUGHPUT	false	10 min
Session Pools Total per Minute	SessionPoolsTotal1m	none	THROUGHPUT	false	10 min

Configuration Help

Weblogic Admin 10.3 JTA Resource Service

This topic provides information about the Weblogic Admin 10.3 JTA Resource Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-172. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
JTA Resource Availability	Availability	percentage	AVAILABILITY	true	10 min
Transactions Committed	TxCommitted	none	THROUGHPUT	false	10 min
Transactions Committed per Minute	TxCommitted1m	none	THROUGHPUT	true	10 min
Transaction Heuristic Commits	TxHeuristicCommits	none	THROUGHPUT	false	10 min
Transaction Heuristic Commits per Minute	TxHeuristicCommits1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total	TxHeuristicHazard	none	THROUGHPUT	false	10 min
Transaction Heuristic Hazard Total per Minute	TxHeuristicHazard1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total	TxHeuristicMixed	none	THROUGHPUT	false	10 min
Transaction Heuristic Mixed Total per Minute	TxHeuristicMixed1m	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks	TxHeuristicRollbacks	none	THROUGHPUT	false	10 min
Transaction Heuristic Rollbacks per Minute	TxHeuristicRollbacks1m	none	THROUGHPUT	false	10 min
Transaction Heuristics Total	TxHeuristics	none	THROUGHPUT	false	10 min
Transaction Heuristics Total per Minute	TxHeuristics1m	none	THROUGHPUT	false	10 min
Transactions Rolled Back	TxRolledBack	none	THROUGHPUT	false	10 min
Transactions Rolled Back per Minute	TxRolledBack1m	none	THROUGHPUT	true	10 min
Transactions Total	TxTotal	none	THROUGHPUT	false	5 min

Configuration Help

Weblogic Admin 10.3 Message Driven EJB Service

This topic provides information about the Weblogic Admin 10.3 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-173. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Pool Accesses	PoolAccesses	none	UTILIZATION	false	10 min
Pool Accesses per Minute	PoolAccesses1m	none	UTILIZATION	false	10 min
Pool Misses	PoolMisses	none	UTILIZATION	false	10 min
Pool Misses per Minute	PoolMisses1m	none	UTILIZATION	false	10 min
Pool Beans Destroyed	PoolBeansDestroyed	none	UTILIZATION	false	10 min
Pool Beans Destroyed per Minute	PoolBeansDestroyed1m	none	UTILIZATION	false	10 min
Pool Beans Idle	PoolBeansIdle	none	UTILIZATION	false	5 min
Pool Beans Available	PoolBeansAvailable	none	UTILIZATION	false	5 min
Pool Beans In Use	PoolBeansInUse	none	UTILIZATION	false	5 min
Pool Waiters	PoolWaiters	none	UTILIZATION	false	5 min
Pool Timeouts	PoolTimeouts	none	UTILIZATION	false	10 min
Pool Timeouts per Minute	PoolTimeouts1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 Stateful EJB Service

This topic provides information about the Weblogic Admin 10.3 Stateful EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: deploy, start, undeploy, stop

Table 4-174. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Transactions Rolled Back	TransactionsRolledBack	none	UTILIZATION	false	10 min
Transactions Rolled Back per Minute	TransactionsRolledBack1m	none	UTILIZATION	true	10 min
Transactions Committed	TransactionsCommitted	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TransactionsCommitted1m	none	UTILIZATION	true	10 min
Transactions Timed Out	TransactionsTimedOut	none	UTILIZATION	false	10 min
Transactions Timed Out per Minute	TransactionsTimedOut1m	none	UTILIZATION	false	10 min
Cached Beans	CachedBeans	none	UTILIZATION	false	5 min
Cache Hits	CacheHits	none	UTILIZATION	false	10 min
Cache Hits per Minute	CacheHits1m	none	UTILIZATION	false	10 min
Cache Misses	CacheMisses	none	UTILIZATION	false	10 min
Cache Misses per Minute	CacheMisses1m	none	UTILIZATION	false	10 min
Activates	Activates	none	UTILIZATION	false	10 min
Activates per Minute	Activates1m	none	UTILIZATION	false	10 min
Passivates	Passivates	none	UTILIZATION	false	10 min
Passivates per Minute	Passivates1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic Admin 10.3 Webapp Service

This topic provides information about the Weblogic Admin 10.3 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 4-175. Custom Properties Supported

Name	Description
ContextRoot	Context Root

Supported Control Actions: deploy, start, undeploy, stop, deleteInvalidSessions

Table 4-176. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Sessions Created	SessionsCreated	none	UTILIZATION	false	10 min
Sessions Created per Minute	SessionsCreated1m	none	UTILIZATION	true	10 min
Current Active Sessions	SessionsActive	none	UTILIZATION	true	5 min
Webapp Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Weblogic NodeManager 9.1 Server

This topic provides information about the Weblogic NodeManager 9.1 Server metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-177. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Configuration Help

Weblogic NodeManager 9.2 Server

This topic provides information about the Weblogic NodeManager 9.2 Server metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-178. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Configuration Help

Weblogic NodeManager 10.0 Server

This topic provides information about the Weblogic NodeManager 10.0 Server metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-179. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Configuration Help

Weblogic NodeManager 10.1 Server

This topic provides information about the Weblogic NodeManager 10.1 Server metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-180. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Configuration Help

Weblogic NodeManager 10.2 Server

This topic provides information about the Weblogic NodeManager 10.2 Server metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-181. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Configuration Help

Weblogic NodeManager 10.3 Server

This topic provides information about the Weblogic NodeManager 10.3 Server metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 4-182. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Configuration Help

RabbitMQ

The RabbitMQ plugin manages RabbitMQ brokers, the virtual hosts within a broker, and RabbitMQ exchanges, queues, connections, and channels. The plugin can discover and manage multiple RabbitMQ nodes on the same platform as the vCenter Hyperic agent.

- [Supported Versions and Requirements](#) on page 247
This section details the supported versions and requirements for the RabbitMQ plugin.
- [RabbitMQ Resources and the vCenter Hyperic Inventory Model](#) on page 248
The table below lists the resource types in vCenter Hyperic that map to managed RabbitMQ entities. The right column indicates the inventory level for each type in the vCenter Hyperic inventory model.
- [SSL Requirements](#) on page 248
To communicate with RabbitMQ over SSL, you must configure a keystore for the agent and manually import the RabbitMQ server's SSL certificate into the agent keystore if the server's certificate is unverified.
- [RabbitMQ Configuration Instructions](#) on page 249
The RabbitMQ plugin can automatically discover and monitor one or more RabbitMQ nodes and associated Rabbit services running on a platform.
- [RabbitMQ Resource Types and Management Functions](#) on page 250
This section describes the management functions the RabbitMQ plugin performs for Rabbit MQ components.

Supported Versions and Requirements

This section details the supported versions and requirements for the RabbitMQ plugin.

The RabbitMQ plugin supports RabbitMQ 2.x and later running on Linux and Windows platforms, and requires v4.6 or later of the vCenter Hyperic agent and the vCenter Hyperic server.

This version of the plugin requires that RabbitMQ has the `rabbitmq-management` plugin installed and running.

RabbitMQ Resources and the vCenter Hyperic Inventory Model

The table below lists the resource types in vCenter Hyperic that map to managed RabbitMQ entities. The right column indicates the inventory level for each type in the vCenter Hyperic inventory model.

Table 5-1. RabbitMQ Entities

Hyperic Resource Type	Description	Hyperic Inventory Type
RabbitMQ	<p>A RabbitMQ broker, also referred to as a node, is an implementation of an Advanced Message Queuing Protocol (AMQP) broker. It is a configurable entity that listens for messages on a TCP/IP port.</p> <p>A broker is represented in Hyperic as a "RabbitMQ" server.</p>	server
RabbitMQ Exchange	<p>A RabbitMQ exchange is a resource that routes messages to queues.</p> <p>An exchange is represented in Hyperic as a "RabbitMQ Exchange" service.</p>	service
RabbitMQ Queue	<p>A queue is a resource that stores and forwards messages to message consumers.</p> <p>A queue is represented in Hyperic as a "RabbitMQ Queue" service.</p>	service
RabbitMQ VirtualHost	<p>A virtual host serves as a name-spacing mechanism for queues and exchanges on a broker. A broker always has a default virtual host identified by a forward slash character (/). Additional virtual hosts can be explicitly configured on a broker. The same queue (or exchange) name in two virtual hosts denotes a different resource in each virtual host.</p> <p>RabbitMQ's first level of access control is enforced at the virtual host level; if a user attempts to connect to a virtual host to which he does not have credentials, the a broker rejects the connection attempt.</p> <p>A RabbitMQ virtual host is represented in Hyperic as a "RabbitMQ VirtualHost" service.</p>	service
RabbitMQ Connection	<p>A physical connection e.g. using TCP/IP or SCTP. A connection is bound to a user.</p>	service
RabbitMQ Channel	<p>A logical connection that is tied to a connection.</p>	service

SSL Requirements

To communicate with RabbitMQ over SSL, you must configure a keystore for the agent and manually import the RabbitMQ server's SSL certificate into the agent keystore if the server's certificate is unverified.

RabbitMQ Configuration Instructions

The RabbitMQ plugin can automatically discover and monitor one or more RabbitMQ nodes and associated Rabbit services running on a platform.

You must run the vCenter Hyperic agent on same platform as the RabbitMQ nodes it will manage.

- [Step 1: Remove Previous RabbitMQ Inventory Resources and Agent Installation](#) on page 249
If you use the previous version of the RabbitMQ plugin, you must remove the existing RabbitMQ resources from from inventory and perform a fresh agent install.
- [Step 2: Install vCenter Hyperic Agent](#) on page 249
This topic provides instructions for installing vCenter Hyperic agent.
- [Step 3: Import RabbitMQ Server\(s\) to Inventory](#) on page 250
The vCenter Hyperic agent on a platform automatically discovers each RabbitMQ node running on the platform. After the RabbitMQ node(s) are discovered, the platform appears in the Auto-Discovery portlet of the vCenter Hyperic dashboard and present the RabbitMQ nodes as new servers.
- [Step 4: Set Event Tracking Options](#) on page 250
The RabbitMQ plugin supports log tracking for the RabbitMQ server resource type. By default, the plugin tails the standard RabbitMQ node log file, and logs an event for messages of level ERR.
- [Step 5: Tailor Plugin Monitoring Defaults](#) on page 250
These steps will allow you to tailor the plugin monitoring defaults.
- [Step 6: Configure Alert Definitions](#) on page 250
This topic provides instructions for configuring alert definitions.

Step 1: Remove Previous RabbitMQ Inventory Resources and Agent Installation

If you use the previous version of the RabbitMQ plugin, you must remove the existing RabbitMQ resources from from inventory and perform a fresh agent install.

If you currently use the RabbitMQ plugin released in vCenter Hyperic 4.5.0, the following requirements apply:

Procedure

- 1 Remove the RabbitMQ server resource runs from inventory:
 - a Use **Browse > Resource > Servers > RabbitMQ**
 - b Select **DeleteServer** from the **Tools** menu.

The RabbitMQ server and service resources on the platform are removed from inventory.
- 2 Stop the vCenter Hyperic agent that runs on the RabbitMQ host.
- 3 Uninstall the vCenter Hyperic agent from the RabbitMQ host by deleting the AgentHome directory.
- 4 Do a fresh install of the vCenter Hyperic agent as described in

Step 2: Install vCenter Hyperic Agent

This topic provides instructions for installing vCenter Hyperic agent.

Procedure

- ◆ If you have not already done so, install a vCenter Hyperic agent on the RabbitMQ host. See *Install an Agent-Only Package in Getting Started with vCenter Hyperic* for instructions.

Step 3: Import RabbitMQ Server(s) to Inventory

The vCenter Hyperic agent on a platform automatically discovers each RabbitMQ node running on the platform. After the RabbitMQ node(s) are discovered, the platform appears in the Auto-Discovery portlet of the vCenter Hyperic dashboard and present the RabbitMQ nodes as new servers.

Procedure

- ◆ **Import** the platform and the new RabbitMQ server resources.

Step 4: Set Event Tracking Options

The RabbitMQ plugin supports log tracking for the RabbitMQ server resource type. By default, the plugin tails the standard RabbitMQ node log file, and logs an event for messages of level ERR.

Procedure

- 1 Navigate to the Monitoring section of the Configuration Properties page for the RabbitMQ server.
- 2 Verify that log tracking is enabled (or disabled).
- 3 Set a preferred tracking level.
- 4 Verify message tracking based on whether they include (or exclude) a specified string.

Step 5: Tailor Plugin Monitoring Defaults

These steps will allow you to tailor the plugin monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page.

Procedure

- 1 Click the **Administration** tab and select Monitoring Defaults.
- 2 Scroll down to the desired RabbitMQ resource type and click **Edit Metric Template**.

Step 6: Configure Alert Definitions

This topic provides instructions for configuring alert definitions.

Procedure

- ◆ Create alert definitions as desired for your managed RabbitMQ components.

RabbitMQ Resource Types and Management Functions

This section describes the management functions the RabbitMQ plugin performs for Rabbit MQ components.

- [RabbitMQ Auto-Discovery](#) on page 251

The plugin auto-discovers the RabbitMQ Server instances on a platform by querying the process table, and then discovers the queues, exchanges, and the virtual hosts for each server instance.

- [RabbitMQ Metric Collection](#) on page 253

The following sections define the metrics for each RabbitMQ resource type.

RabbitMQ Auto-Discovery

The plugin auto-discovers the RabbitMQ Server instances on a platform by querying the process table, and then discovers the queues, exchanges, and the virtual hosts for each server instance.

When the plugin detects that a transient service no longer exists in RabbitMQ, the plugin removes the associated vCenter Hyperic resource from inventory. The RabbitMQ server must be running for the plugin to detect that previously existing services no longer exist - the plugin will not remove services while the Rabbit node is down.

RabbitMQ Server Properties

This topic details the RabbitMQ Server Properties metrics.

Table 5-2. RabbitMQ Server Properties

Property	Description	Default
resource name	N/A	N/A
Owner	The Hyperic account under which the resource was created.	N/A
node	RabbitMQ node name (rabbit_X@servername)	N/A
addr	IP address or hostname RabbitMQ HTTP management API.	localhost
port	Listen port for the RabbitMQ HTTP management API.	55672
username	RabbitMQ admin username	guest
password	RabbitMQ admin username	guest
nodurable	Discover non-durable objects, If checked, all nondurable objects (Channels, Queue, etc.) will be auto-discovered.	false
autosync	Auto-Delete Unavailable Objects. If checked, all unavailable objects (Channels, Queue, etc.) will be auto-delete (except for idle objects, which shows as paused.)	false

RabbitMQ Exchange Service Properties

This topic details RabbitMQ Exchange Service properties.

Table 5-3. RabbitMQ Exchange Service Properties

Property	Description
resource name	N/A
Owner	The Hyperic user account under which the resource was created.
vhost	rabbit node-vhost name
exchange	exchange name

Table 5-3. RabbitMQ Exchange Service Properties (Continued)

Property	Description
Exchange Type	Values include: <ul style="list-style-type: none"> ■ fanout ■ direct ■ topic ■ headers
Durable	Whether or not the exchange (and the routing data it contains) will survive a server restart.
Auto-Delete	Whether or not the exchange is removed when all queues have stopped using it.

RabbitMQ Queue Service Properties

This topic details the RabbitMQ Queue Service properties.

Table 5-4. RabbitMQ Queue Service Properties

Property	Description
resource name	N/A
Owner	The Hyperic account under which the resource was created.
durable	Whether or not the queue will survive a server restart.
vhost	rabbit node-vhost name
queue	N/A

RabbitMQ VirtualHost Service Properties

This topic details the RabbitMQ VirtualHost Service properties.

Table 5-5. RabbitMQ VirtualHost Service Properties

Property	Description
resource name	N/A
Owner	The Hyperic user account under which the resource was created.
vhost	rabbit node-vhost name
name	Virtual Host
users	Users

RabbitMQ Connection Service Properties

This topic details the RabbitMQ Connection Service properties.

Table 5-6. RabbitMQ Connection Service Properties

Property	Description
resource name	N/A
Owner	The Hyperic account under which the resource was created.
connection	connection name

Table 5-6. RabbitMQ Connection Service Properties (Continued)

Property	Description
authMechanism Authentication	N/A
protocol	Protocol
user	User
timeout	Timeout
ssl	SSL

RabbitMQ Channel Service Properties

This topic details the RabbitMQ Channel Service properties.

Table 5-7. RabbitMQ Channel Service Properties

Property	Description
resource name	N/A
Description	N/A
Owner	The Hyperic user account under which the resource was created.
vhost	rabbit node-vhost name
channel	channelname
user	User
confirm	Confirm
transactional Transactional	N/A

RabbitMQ Metric Collection

The following sections define the metrics for each RabbitMQ resource type.

- [RabbitMQ Metrics](#) on page 254
This topic details the RabbitMQ Metrics metrics.
- [RabbitMQ Exchange Metrics](#) on page 255
This topic details the RabbitMQ Exchange metrics.
- [RabbitMQ Queue Metrics](#) on page 255
This topic details the RabbitMQ Queue metrics.
- [RabbitMQ VirtualHost Metrics](#) on page 256
This topic details the RabbitMQ VirtualHost metrics.
- [RabbitMQ Connection Metrics](#) on page 256
This topic details the RabbitMQ Connection metrics.
- [RabbitMQ Channel Metrics](#) on page 257
This topic details the RabbitMQ Channel metrics.
- [RabbitMQ Server Metrics](#) on page 257
This topic details the RabbitMQ Server metrics.
- [RabbitMQ VirtualHost Service](#) on page 259
This topic details the RabbitMQ VirtualHost Service metrics.

- [RabbitMQ Queue Service](#) on page 259

This topic details the RabbitMQ Queue Service metrics.

- [RabbitMQ Exchange Service](#) on page 260

This topic details the RabbitMQ Exchange Service metrics.

- [RabbitMQ Channel Service](#) on page 260

This topic details the RabbitMQ Channel Service metrics.

- [RabbitMQ Connection Service](#) on page 261

This topic details the RabbitMQ Connection Service metrics.

RabbitMQ Metrics

This topic details the RabbitMQ Metrics metrics.

Table 5-8. RabbitMQ Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Messages	Messages	none	UTILIZATION	true	5 min
Messages Ready	MessagesReady	none	UTILIZATION	true	5 min
Messages Unacknowledged	MessagesUnacknowledged	none	UTILIZATION	true	5 min
Messages Publish /s	MessagesPublish/s	none	UTILIZATION	true	5 min
Messages Confirm /s	MessagesConfirm/s	none	UTILIZATION	true	5 min
Messages Deliver /s	MessagesDeliver/s	none	UTILIZATION	true	5 min
Messages Acknowledge /s	MessagesAcknowledge/s	none	UTILIZATION	true	5 min
Messages Get /s	MessagesGet/s	none	UTILIZATION	true	5 min
Messages Get (noack) /s	MessagesGet(noack)/s	none	UTILIZATION	true	5 min
Messages Deliver (noack) /s	MessagesDeliver(noack)/s	none	UTILIZATION	true	5 min
Messages Deliver +Get /s	MessagesDeliver+Get/s	none	UTILIZATION	true	5 min
Memory watermark	Memorywatermark	none	UTILIZATION	true	5 min
Erlang Processes used	ErlangProcessesused	none	UTILIZATION	false	5 min
Erlang Processes % used	ErlangProcesses%used	percentage	UTILIZATION	true	5 min
Process Open File Descriptors %	ProcessOpenFileDescriptors%	percentage	UTILIZATION	true	5 min
Process Virtual Memory Size	ProcessVirtualMemorySize	B	UTILIZATION	false	5 min
Process Resident Memory Size	ProcessResidentMemorySize	B	UTILIZATION	true	5 min
Process Page Faults	ProcessPageFaults	none	UTILIZATION	false	10 min

Table 5-8. RabbitMQ Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Process Page Faults per Minute	ProcessPageFaults1m	none	UTILIZATION	false	10 min
Process Cpu System Time	ProcessCpuSystemTime	ms	UTILIZATION	false	10 min
Process Cpu System Time per Minute	ProcessCpuSystemTime1m	ms	UTILIZATION	false	10 min
Process Cpu User Time	ProcessCpuUserTime	ms	UTILIZATION	false	10 min
Process Cpu User Time per Minute	ProcessCpuUserTime1m	ms	UTILIZATION	false	10 min
Process Cpu Total Time	ProcessCpuTotalTime	ms	UTILIZATION	false	10 min
Process Cpu Total Time per Minute	ProcessCpuTotalTime1m	ms	UTILIZATION	false	10 min
Process Cpu Usage	ProcessCpuUsage	percentage	UTILIZATION	true	5 min
Process Start Time	ProcessStartTime	epoch-millis	AVAILABILITY	false	5 min
Process Open File Descriptors	ProcessOpenFileDescriptors	none	UTILIZATION	false	5 min
Process Threads	ProcessThreads	none	UTILIZATION	false	5 min
Channels	Channels	none	UTILIZATION	true	5 min
Connections	Connections	none	UTILIZATION	true	5 min

RabbitMQ Exchange Metrics

This topic details the RabbitMQ Exchange metrics.

Table 5-9. RabbitMQ Exchange Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
IN Messages Publish /s	in_publish_details	none	THROUGHPUT	true	5 min
OUT Messages Publish /s	out_publish_details	none	THROUGHPUT	true	5 min

RabbitMQ Queue Metrics

This topic details the RabbitMQ Queue metrics.

Table 5-10. RabbitMQ Queue Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
idle Time	idleTime	ms	UTILIZATION	true	30 min
Messages Publish /s	publishDetails	none	UTILIZATION	true	5 min

Table 5-10. RabbitMQ Queue Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Confirm /s	confirmDetails	none	UTILIZATION	true	5 min
Messages Deliver /s	deliverDetails	none	UTILIZATION	true	5 min
Messages Acknowledge /s	ackDetails	none	UTILIZATION	true	5 min
Messages Get /s	getDetails	none	UTILIZATION	true	5 min
Messages Get (noack) /s	getNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver (noack) /s	deliverNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver +Get /s	deliverGetDetails	none	UTILIZATION	true	5 min
Messages	messages	none	THROUGHPUT	true	5 min
Consumers	consumers	none	UTILIZATION	true	5 min
Transactions	transactions	none	THROUGHPUT	true	5 min
Acks Uncommitted	acksUncommitted	none	THROUGHPUT	true	5 min
Messages Ready	messagesReady	none	THROUGHPUT	true	5 min
Messages Unacknowledged	messagesUnacknowledged	none	THROUGHPUT	true	5 min
Messages Uncommitted	messagesUncommitted	none	THROUGHPUT	true	5 min
Memory	memory	b	UTILIZATION	true	5 min

RabbitMQ VirtualHost Metrics

This topic details the RabbitMQ VirtualHost metrics.

Table 5-11. RabbitMQ VirtualHost Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Exchanges	exchangeCount	none	UTILIZATION	true	5 min
Queues	queueCount	none	UTILIZATION	true	5 min

RabbitMQ Connection Metrics

This topic details the RabbitMQ Connection metrics.

Table 5-12. RabbitMQ Connection Metrics

Name	Alias	Units	Category	Default On	Default Interval
Octets Received	octetsReceived	B	THROUGHPUT	true	5 min
Octets Sent	octetsSent	B	THROUGHPUT	true	5 min
Network Packets Received	packetsReceived	B	THROUGHPUT	true	5 min

Table 5-12. RabbitMQ Connection Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Network Packets Sent	packetsSent	B	THROUGHPUT	true	5 min
Channels	channelCount	none	UTILIZATION	true	5 min
Pending Sends	pendingSends	none	UTILIZATION	true	5 min
Availability	Availability	percentage	AVAILABILITY	true	5 min

RabbitMQ Channel Metrics

This topic details the RabbitMQ Channel metrics.

Table 5-13. RabbitMQ Channel Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Messages Publish /s	publishDetails	none	UTILIZATION	true	5 min
Messages Confirm /s	confirmDetails	none	UTILIZATION	true	5 min
Messages Deliver /s	deliverDetails	none	UTILIZATION	true	5 min
Messages Acknowledge /s	ackDetails	none	UTILIZATION	true	5 min
Messages Get /s	getDetails	none	UTILIZATION	true	5 min
Messages Get (noack) /s	getNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver (noack) /s	deliverNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver +Get /s	deliverGetDetails	none	UTILIZATION	true	5 min
idle Time	idleTime	ms	UTILIZATION	true	30 min
Consumers	consumerCount	none	UTILIZATION	true	5 min
Prefetch Count	prefetchCount	B	THROUGHPUT	true	5 min
Acks Uncommitted	acksUncommitted	B	THROUGHPUT	true	5 min
Messages Unacknowledged	messagesUnacknowledged	B	THROUGHPUT	true	5 min

RabbitMQ Server Metrics

This topic details the RabbitMQ Server metrics.

Table 5-14. RabbitMQ Server

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Messages	Messages	none	UTILIZATION	true	5 min
Messages Ready	MessagesReady	none	UTILIZATION	true	5 min

Table 5-14. RabbitMQ Server (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Unacknowledged	MessagesUnacknowledged	none	UTILIZATION	true	5 min
Messages Publish /s	MessagesPublish/s	none	UTILIZATION	true	5 min
Messages Confirm /s	MessagesConfirm/s	none	UTILIZATION	true	5 min
Messages Deliver /s	MessagesDeliver/s	none	UTILIZATION	true	5 min
Messages Acknowledge /s	MessagesAcknowledge/s	none	UTILIZATION	true	5 min
Messages Get /s	MessagesGet/s	none	UTILIZATION	true	5 min
Messages Get (noack) /s	MessagesGet(noack)/s	none	UTILIZATION	true	5 min
Messages Deliver (noack) /s	MessagesDeliver(noack)/s	none	UTILIZATION	true	5 min
Messages Deliver +Get /s	MessagesDeliver+Get/s	none	UTILIZATION	true	5 min
Memory watermark	Memorywatermark	none	UTILIZATION	true	5 min
Erlang Processes used	ErlangProcessesused	none	UTILIZATION	false	5 min
Erlang Processes % used	ErlangProcesses%used	percentage	UTILIZATION	true	5 min
Process Open File Descriptors %	ProcessOpenFileDescriptors%	percentage	UTILIZATION	true	5 min
Process Virtual Memory Size	ProcessVirtualMemorySize	B	UTILIZATION	false	5 min
Process Resident Memory Size	ProcessResidentMemorySize	B	UTILIZATION	true	5 min
Process Page Faults	ProcessPageFaults	none	UTILIZATION	false	10 min
Process Page Faults per Minute	ProcessPageFaults1m	none	UTILIZATION	false	10 min
Process Cpu System Time	ProcessCpuSystemTime	ms	UTILIZATION	false	10 min
Process Cpu System Time per Minute	ProcessCpuSystemTime1m	ms	UTILIZATION	false	10 min
Process Cpu User Time	ProcessCpuUserTime	ms	UTILIZATION	false	10 min
Process Cpu User Time per Minute	ProcessCpuUserTime1m	ms	UTILIZATION	false	10 min
Process Cpu Total Time	ProcessCpuTotalTime	ms	UTILIZATION	false	10 min
Process Cpu Total Time per Minute	ProcessCpuTotalTime1m	ms	UTILIZATION	false	10 min
Process Cpu Usage	ProcessCpuUsage	percentage	UTILIZATION	true	5 min

Table 5-14. RabbitMQ Server (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Process Start Time	ProcessStartTime	epoch-millis	AVAILABILITY	false	5 min
Process Open File Descriptors	ProcessOpenFile Descriptors	none	UTILIZATION	false	5 min
Process Threads	ProcessThreads	none	UTILIZATION	false	5 min
Channels	Channels	none	UTILIZATION	true	5 min
Connections	Connections	none	UTILIZATION	true	5 min

RabbitMQ VirtualHost Service

This topic details the RabbitMQ VirtualHost Service metrics.

Table 5-15. RabbitMQ VirtualHost Service

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Exchanges	exchangeCount	none	UTILIZATION	true	5 min
Queues	queueCount	none	UTILIZATION	true	5 min

RabbitMQ Queue Service

This topic details the RabbitMQ Queue Service metrics.

Table 5-16. RabbitMQ Queue Service

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
idle Time	idleTime	ms	UTILIZATION	true	30 min
Messages Publish /s	publishDetails	none	UTILIZATION	true	5 min
Messages Confirm /s	confirmDetails	none	UTILIZATION	true	5 min
Messages Deliver /s	deliverDetails	none	UTILIZATION	true	5 min
Messages Acknowledge /s	ackDetails	none	UTILIZATION	true	5 min
Messages Get /s	getDetails	none	UTILIZATION	true	5 min
Messages Get (noack) /s	getNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver (noack) /s	deliverNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver +Get /s	deliverGetDetails	none	UTILIZATION	true	5 min
Messages	messages	none	THROUGHPUT	true	5 min
Consumers	consumers	none	UTILIZATION	true	5 min
Transactions	transactions	none	THROUGHPUT	true	5 min
Acks Uncommitted	acksUncommitted	none	THROUGHPUT	true	5 min

Table 5-16. RabbitMQ Queue Service (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Ready	messagesReady	none	THROUGHPUT	true	5 min
Messages Unacknowledged	messagesUnacknowledged	none	THROUGHPUT	true	5 min
Messages Uncommitted	messagesUncommitted	none	THROUGHPUT	true	5 min
Memory	memory	b	UTILIZATION	true	5 min

RabbitMQ Exchange Service

This topic details the RabbitMQ Exchange Service metrics.

Table 5-17. RabbitMQ Exchange Service

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
IN Messages Publish /s	in_publish_details	none	THROUGHPUT	true	5 min
OUT Messages Publish /s	out_publish_details	none	THROUGHPUT	true	5 min

RabbitMQ Channel Service

This topic details the RabbitMQ Channel Service metrics.

Table 5-18. RabbitMQ Channel Service

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Messages Publish /s	publishDetails	none	UTILIZATION	true	5 min
Messages Confirm /s	confirmDetails	none	UTILIZATION	true	5 min
Messages Deliver /s	deliverDetails	none	UTILIZATION	true	5 min
Messages Acknowledge /s	ackDetails	none	UTILIZATION	true	5 min
Messages Get /s	getDetails	none	UTILIZATION	true	5 min
Messages Get (noack) /s	getNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver (noack) /s	deliverNoAckDetails	none	UTILIZATION	true	5 min
Messages Deliver +Get /s	deliverGetDetails	none	UTILIZATION	true	5 min
idle Time	idleTime	ms	UTILIZATION	true	30 min
Consumers	consumerCount	none	UTILIZATION	true	5 min
Prefetch Count	prefetchCount	B	THROUGHPUT	true	5 min

Table 5-18. RabbitMQ Channel Service (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Acks Uncommitted	acksUncommitted	B	THROUGHPUT	true	5 min
Messages Unacknowledged	messagesUnacknowledged	B	THROUGHPUT	true	5 min

RabbitMQ Connection Service

This topic details the RabbitMQ Connection Service metrics.

Table 5-19. RabbitMQ Connection Service

Name	Alias	Units	Category	Default On	Default Interval
Octets Received	octetsReceived	B	THROUGHPUT	true	5 min
Octets Sent	octetsSent	B	THROUGHPUT	true	5 min
Network Packets Received	packetsReceived	B	THROUGHPUT	true	5 min
Network Packets Sent	packetsSent	B	THROUGHPUT	true	5 min
Channels	channelCount	none	UTILIZATION	true	5 min
Pending Sends	pendingSends	none	UTILIZATION	true	5 min
Availability	Availability	percentage	AVAILABILITY	true	5 min

vCenter Hyperic's GemFire plugin manages a GemFire Distributed System (DS) and the servers and services it comprises.

Supported Versions

The GemFire plugin supports GemFire v6.5.

- [GemFire Resources and the vCenter Hyperic Inventory Model](#) on page 264
The table below describes each GemFire resource type; the right column indicates the inventory level for a type in the vCenter Hyperic inventory model.
- [GemFire Configuration Overview](#) on page 265
The GemFire plugin uses the GemFire JMX agent to obtain inventory properties and metrics for the GemFire components in a GemFire Distributed System (DS). You configure a vCenter Hyperic agent to communicate with the DS's JMX Agent. The vCenter Hyperic agent can run on the same platform as the JMX Agent, or on another platform.
- [GemFire Resource Types and Management Functions](#) on page 265
This section details the GemFire resource types and management functions.
- [GemFire Configuration Instructions](#) on page 272
Perform these steps for each distributed system to be managed.
- [GemFire Metric Documentation](#) on page 274
This section details the metrics for each GemFire resource type.
- [GemFire Events](#) on page 277
This topic details the GemFire events.
- [vCenter Hyperic GemFire View](#) on page 278
vCenter Hyperic's GemFire plugin provides a live data user interface for viewing metrics in real-time.

GemFire Resources and the vCenter Hyperic Inventory Model

The table below describes each GemFire resource type; the right column indicates the inventory level for a type in the vCenter Hyperic inventory model.

Table 6-1. GemFire Resources and the Hyperic Inventory Model

GemFire Resource Hierarchy	Description	Inventory Type
GemFire Distributed System (DS)	<p>GemFire is a distributed caching system. A GemFire Distributed System (DS) is a logical entity --- a set of servers that are configured to communicate with one another. The servers in a DS are referred to as members or nodes. Member types (defined in the rows below) include:</p> <ul style="list-style-type: none"> ■ JMX Agent ■ Gateway Hub 6.5 ■ Cache Server 6.5 ■ Application Peer 6.5 	platform
JMX Agent	A GemFire JMX Agent is an administrative member of a DS through which the Hyperic Agent obtains GemFire resource and metric data. The JMX Agent returns ModelMBeans attributes that correspond to inventory properties and metric values for members of the DS.	server
Gateway Hub 6.5	<p>A Gateway Hub is present in a DS that is part of a multi-DS deployment. The Gateway Hub for a DS:</p> <ul style="list-style-type: none"> ■ Creates and manages Gateways for communicating with remote DSs. ■ Receives gateway events from other DSs, and distributes the events to one or all local gateways, in accordance with its distribution policy. ■ Hosts a GemFire cache. 	server
Gateway Hub 6.5 Gateway	A Gateway manages a queue of events (where an event is an operation that affects a specific region) to be propagated to a particular remote DS.	service
Cache Server 6.5	A Cache Server is a server for cached objects. (As opposed to a GemFire Application Peer, which is a GemFire cache within an application).	server

Table 6-1. GemFire Resources and the Hyperic Inventory Model (Continued)

GemFire Resource Hierarchy	Description	Inventory Type
Application Peer 6.5	An Application Peer is an application process running a GemFire cache.	server
regions	<p>In GemFire, a region is a set of cached objects that are managed in accordance with the same policies. For example, rules for expiration, data policy, scope, the directories to which region data is written, the Gateway Hub to which region events are distributed, and so on.</p> <p>A region can have subregions, which in turn can have their own subregions. Regions provide a hierarchical namespace for sets of objects in a cache. A region can exist in any non-admin member of the DS. The name of a region in vCenter Hyperic indicates the resource type of its parent in the managed resource hierarchy:</p> <ul style="list-style-type: none"> ■ Application Peer 6.5 Region ■ Cache Server 6.5 Region ■ Gateway Hub 6.5 Region 	service

NOTE For more information about the managed resource hierarchy, see the *vCenter Hyperic Overview* guide.

GemFire Configuration Overview

The GemFire plugin uses the GemFire JMX agent to obtain inventory properties and metrics for the GemFire components in a GemFire Distributed System (DS). You configure a vCenter Hyperic agent to communicate with the DS's JMX Agent. The vCenter Hyperic agent can run on the same platform as the JMX Agent, or on another platform.

The key requirements for successfully managing GemFire components with Hyperic are:

- The vCenter Hyperic agent must be able to connect to the JMX agent. If the vCenter Hyperic agent is on a different platform than the JMX agent for the DS, you must ensure that the vCenter Hyperic agent can connect to the JMX agent's RMI service.
- Each GemFire member's `statistic-sampling-enabled` property (in its `gemfire.properties` file) must be set to `true`. The default for the property is `false`.

GemFire Resource Types and Management Functions

This section details the GemFire resource types and management functions.

- [GemFire Management Functions for GemFire Distributed Systems](#) on page 266
This topic details the GemFire management functions for GemFire distributed systems.
- [GemFire Management Functions for JMX Agent](#) on page 267
This topic details the GemFire management functions for JMX agent.
- [Management Functions for Cache Server 6.5](#) on page 267
This topic details the management functions for Cache Server 6.5.

- [GemFire Management Functions for Cache Server 6.5 Region](#) on page 268
This topic details the GemFire management functions for Cache Server 6.5 Region.
- [GemFire Management Functions for Gateway Hub 6.5](#) on page 269
This topic details the GemFire management functions for Gateway Hub 6.5.
- [GemFire Management Functions for Gateway Hub 6.5 Gateway](#) on page 269
This topic details the management functions for Gateway Hub 6.5 Gateway.
- [GemFire Management Functions for Gateway Hub 6.5 Region](#) on page 270
This topic details the management functions for Gateway Hub 6.5 Region.
- [GemFire Management Functions for Application Peer 6.5](#) on page 271
This topic details the management functions for Application Peer 6.5.
- [GemFire Management Functions for Application Peer 6.5 Region](#) on page 272
This topic details the management functions for Application Peer 6.5 Region.

GemFire Management Functions for GemFire Distributed Systems

This topic details the GemFire management functions for GemFire distributed systems.

Table 6-2. Management Functions for GemFire Distributed System

Management Function	Description	Classes
Auto-discovery	The GemFire plugin does not automatically discover the platform resource - you explicitly create the resource, and configure it to connect to the JMX Agent for the DS, as described in the “GemFire Configuration Instructions,” on page 272.	<code>com.vmware.springsource.hyperic.plugin.gemfire.detectors.GemfirePlatformDetector</code>
Metric Collection	The GemFireCollector class obtains data about DS membership and presents it as metrics for the platform resource. See “GemFire Distributed System Metrics,” on page 275.	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.GemfireCollector</code>
Event Tracking	If event tracking is configured for the DS, the AlertsPlugin class logs an event for each of the GemFire alert types listed in “GemFire Events,” on page 277.	<code>com.vmware.springsource.hyperic.plugin.gemfire.AlertsPlugin</code>
Live Data	The GemFireLiveData class provides a live data-user interface for viewing member metrics in real-time. (As opposed to the Monitor tab for a GemFire component, which presents metrics that have been saved to the database). See “vCenter Hyperic GemFire View,” on page 278.	<code>com.vmware.springsource.hyperic.plugin.gemfire.GemFireLiveData</code>

GemFire Management Functions for JMX Agent

This topic details the GemFire management functions for JMX agent.

Table 6-3. Management Functions for JMX Agent

Management Function	Description	Classes
Auto-discovery	The JMX Agent for a DS is discovered when the plugin connects to the JMX connection configured for the DS platform.	<code>com.vmware.springsource.hyperic.plugin.gemfire.detectors.JMXAgentDetector</code>
Metric Collection	The <code>JMXAgentCollector</code> class reports the availability of a JMX agent based on its ability to connect to it and query for member information.	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.JMXAgentCollector</code>

Management Functions for Cache Server 6.5

This topic details the management functions for Cache Server 6.5.

Table 6-4. Management Functions for Cache Server 6.5

Management Function	Description	Classes
Auto-Discovery	A Cache Server is discovered via JMX agent for the DS. The <code>CacheServerDetector</code> class obtains inventory properties from the <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for a Cache Server. This list indicates the MBean attribute that supplies each property: <ul style="list-style-type: none"> ■ ID - the <code>gemfire.member.id</code> ■ Type - <code>gemfire.member.type</code> ■ Peer Host - <code>gemfire.member.host</code> ■ Peer Port - <code>gemfire.member.port</code> 	<code>com.vmware.springsource.hyperic.plugin.gemfire.detectors.CacheServerDetector</code>
Metric Collection	The plugin obtains metrics for Cache Server from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the server via the JMX Agent for the DS. Each metric corresponds to an attribute of the MBean.	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.MemberCollector</code>

GemFire Management Functions for Cache Server 6.5 Region

This topic details the GemFire management functions for Cache Server 6.5 Region.

Table 6-5. Management Functions for Cache Server 6.5 Region

Management Function	Description	Classes
Auto-Discovery	<p>The <code>CacheServerDetector</code> class obtains inventory properties from the <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for a region in a Cache Server. This list indicates the MBean attribute that supplies each property:</p> <ul style="list-style-type: none"> ■ Name - <code>gemfire.region.name.string</code> ■ Path - <code>gemfire.region.path.string</code> ■ Scope - <code>gemfire.region.scope.string</code> ■ Data Policy - <code>gemfire.region.datapolicy.string</code> ■ Interest - <code>gemfire.region.interestpolicy.string</code> ■ Disk Attributes - <code>gemfire.region.distattrs.string</code> 	<code>com.vmware.springsource.hyperic.plugin.gemfire.detectors.CacheServerDetector</code>
Metric Collection	<p>The <code>RegionCollector</code> class obtains metrics for a region in a Cache Server from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the server. Each metric corresponds to an attribute of the MBean.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.RegionCollector</code>

GemFire Management Functions for Gateway Hub 6.5

This topic details the GemFire management functions for Gateway Hub 6.5.

Table 6-6. Management Functions for Gateway Hub 6.5

Management Function	Description	Classes
Auto-Discovery	<p>The GemFire plugin discovers members of a DS via the JMX agent for the DS. The <code>GatewayHubDetector</code> class obtains inventory properties from the <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for a Gateway Hub. This list indicates the MBean attribute that supplies each property:</p> <ul style="list-style-type: none"> ■ ID - the <code>gemfire.member.id.string</code> ■ Type - <code>gemfire.member.type.string</code> ■ Peer Host - <code>gemfire.member.host.string</code> ■ Peer Port - <code>gemfire.member.port.string</code> 	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.GatewayHubDetector</code>
Metric Collection	<p>The <code>GatewayHubCollector</code> obtains metrics for a Gateway Hub from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the server. Each metric corresponds to an attribute of the MBean.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.GatewayHubCollector</code>

GemFire Management Functions for Gateway Hub 6.5 Gateway

This topic details the management functions for Gateway Hub 6.5 Gateway.

Table 6-7. Management Functions for Gateway Hub 6.5 Gateway

Management Function	Description	Classes
Auto-Discovery	<p>The <code>GatewayHubDetector</code> class obtains inventory properties for a Gateway from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the Gateway Hub server. Each metric corresponds to an attribute of the MBean.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.GatewayHubDetector</code>
Metric Collection	<p>The <code>GatewayCollector</code> class obtains metrics for a Gateway from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the Gateway Hub server. Each metric corresponds to an attribute of the MBean.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.GatewayCollector</code>

GemFire Management Functions for Gateway Hub 6.5 Region

This topic details the management functions for Gateway Hub 6.5 Region.

Table 6-8. Management Functions for Gateway Hub 6.5 Region

Management Function	Description	Classes
Auto-Discovery	<p>The GatewayHubDetector class obtains inventory properties for a region in the Gateway Hub from the MemberInfoWithStatsMBean ModelMBean for the Gateway Hub. This list indicates the MBean attribute that supplies each property:</p> <ul style="list-style-type: none"> ■ ID - <code>gemfire.member.id</code> ■ Name - <code>gemfire.region.name.string</code> ■ Path - <code>gemfire.region.path.string</code> ■ Scope - <code>gemfire.region.scope.string</code> ■ Data Policy - <code>gemfire.region.datapolicy.string</code> ■ Interest Policy - <code>gemfire.region.interestpolicy.string</code> ■ Disk Attributes - <code>gemfire.region.distatts.string</code> 	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.GatewayHubDetector</code>
Metric Collection	<p>The RegionCollector class obtains metrics for a region in a Gateway Hub from the GemFire MemberInfoWithStatsMBean ModelMBean for the Gateway Hub.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.RegionCollector</code>

GemFire Management Functions for Application Peer 6.5

This topic details the management functions for Application Peer 6.5.

Table 6-9. Management Functions for Application Peer 6.5

Management Function	Description	Classes
Auto-Discovery	<p>The GemFire plugin discovers members of a DS via the JMX Agent for the DS. The <code>ApplicationServerDetector</code> class obtains inventory properties from the <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for an Application Peer. This list indicates the MBean attribute that supplies each property:</p> <ul style="list-style-type: none"> ■ ID - the <code>gemfire.member.id.string</code> ■ Type - <code>gemfire.member.type.string</code> ■ Peer Host - <code>gemfire.member.host.string</code> ■ Peer Port - <code>gemfire.member.port.string</code> 	<code>com.vmware.springsource.hyperic.plugin.gemfire.detectors.ApplicationServerDetector</code>
Metric Collection	<p>The plugin <code>MemberCollector</code> class obtains metrics for an Application Peer from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the server. Each metric corresponds to an attribute of the MBean.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.MemberCollector</code>

GemFire Management Functions for Application Peer 6.5 Region

This topic details the management functions for Application Peer 6.5 Region.

Table 6-10. Management Functions for Application Peer 6.5 Region

Management Function	Description	Classes
Auto-Discovery	<p>The <code>ApplicationServerDetector</code> class obtains inventory properties for a region in the Application Peer from the <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the Application Peer. This list indicates the MBean attribute that supplies each property:</p> <ul style="list-style-type: none"> ■ Name - <code>gemfire.region.name.string</code> ■ Path - <code>gemfire.region.path.string</code> ■ Scope - <code>gemfire.region.scope.string</code> ■ Data Policy - <code>gemfire.region.datapolicy.string</code> ■ Interest Policy - <code>gemfire.region.interestpolicy.string</code> ■ Disk Attributes - <code>gemfire.region.distatts.string</code> 	<code>com.vmware.springsource.hyperic.plugin.gemfire.detectors.ApplicationServerDetector</code>
Metric Collection	<p>The <code>RegionCollector</code> class obtains metrics for a region in an Application from the GemFire <code>MemberInfoWithStatsMBean</code> <code>ModelMBean</code> for the Application Peer. Each metric corresponds to an attribute of the MBean.</p>	<code>com.vmware.springsource.hyperic.plugin.gemfire.collectors.RegionCollector</code>

GemFire Configuration Instructions

Perform these steps for each distributed system to be managed.

- [Step 1: Enable GemFire Member Discovery and Monitoring](#) on page 273
This topic provides instructions to ensure that the GemFire plugin can discover and monitor GemFire components.
- [Step 2: Configure vCenter Hyperic Agent for the DS](#) on page 273
This topic provides you with information to configure vCenter Hyperic agent for the DS.
- [Step 3: Configure a Platform for the DS](#) on page 273
These steps will allow you to configure a platform for the DS.
- [Step 4: Set Event Tracking Options](#) on page 274
These steps will allow you to enable log tracking.
- [Step 5: Tailor Plugin Monitoring Defaults](#) on page 274
These steps will allow you to tailor the plugin monitoring defaults.

- [Step 6: Configure Alert Definitions](#) on page 274
This topic explains how to configure alert definitions.

Step 1: Enable GemFire Member Discovery and Monitoring

This topic provides instructions to ensure that the GemFire plugin can discover and monitor GemFire components.

Procedure

- 1 (Optional) If you plan to run the vCenter Hyperic agent on the same platform as the JMX Agent for the DS, skip to Step 2. If you plan to run the vCenter Hyperic agent on a different platform than the JMX agent's RMI service - do this by specifying the JMX agent's `rmi-bind-address` when you start it:


```
./agent start rmi-bind-address=IP_Address -dir/AgentHome
```
- 2 Enable statistics sampling for each GemFire member in the DS - by default, statistics sampling is not enabled. To enable it, edit each member's `gemfire.properties` file to set the `statistic-sampling-enabled` property to true.

Step 2: Configure vCenter Hyperic Agent for the DS

This topic provides you with information to configure vCenter Hyperic agent for the DS.

If you have not already done so, do one of the following:

Procedure

- ◆ Install a vCenter Hyperic agent to monitor the DS, either on the same platform as the JMX Agent, or on another platform (for instructions see *Getting Started with vCenter Hyperic*, or
Select an existing vCenter Hyperic agent on a remote platform to monitor the DS.

Step 3: Configure a Platform for the DS

These steps will allow you to configure a platform for the DS.

Prerequisites

These instructions assume the vCenter Hyperic agent that will monitor the DS is up and running.

Procedure

- 1 Select **Resources > Browse**.
- 2 Click the **Tools** menu and select **New Platform**.
- 3 On the New Platform page, in the **General Properties** section, enter a meaningful name for the DS, and, as desired, a description and its location.
- 4 On the New Platform page, in the **General Properties** section:
 - a From the **Platform Type** pulldown, select **GemFire Distributed System**.
 - b If the vCenter Hyperic agent is on a different platform from the JMX Agent, select its address:port combination from the **Agent Connection** pulldown.
 - c Enter the FQDN of the platform where the JMX Agent runs.
 - d Enter the IP Address of the platform where the JMX Agent runs.
 - e Click **OK**.

- 5 Navigate to the Configuration Properties section of the Inventory page for the new platform.
 - a `jmx.url` – If the vCenter Hyperic agent and the JMX Agent are on different platforms, edit the default JMX URL shows to include the IP address of the JMX agent. The default `jmx.url` is:


```
service:jmx:rmi:///jndi/rmi://localhost:1099/jmxconnector
```
 - b In the correctly modified `jmx.url`, `localhost` is replaced by the hostname or address of the JMX agent, and the valid JMX connector listen port is specified:


```
service:jmx:rmi:///jndi/rmi://Host:Port/jmxconnector
```
 - c `jmx.username` – Enter the username for accessing the JMX Agent.
 - d `jmx.password` – Enter the password for accessing the JMX Agent.

Step 4: Set Event Tracking Options

These steps will allow you to enable log tracking.

Procedure

- ◆ Navigate to the Monitoring section of the Configuration Properties page for the DS and select the **Enable Log Tracking** checkbox.

vCenter Hyperic logs events of level "ERR" for the alert types listed in ["GemFire Events,"](#) on page 277.

For information about vCenter Hyperic log tracking functionality and configuration options, and how to view log events, see the section about setting up log tracking for a resource in *vCenter Hyperic Administration*.

Step 5: Tailor Plugin Monitoring Defaults

These steps will allow you to tailor the plugin monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

Step 6: Configure Alert Definitions

This topic explains how to configure alert definitions.

Procedure

- ◆ Create alert definitions as desired for your managed vSphere components.

GemFire Metric Documentation

This section details the metrics for each GemFire resource type.

- [GemFire Distributed System Metrics](#) on page 275

This topic details the GemFire Distributed System metrics.

- [GemFire Member Metrics](#) on page 275

The table below defines the metrics available for the server resources in a GemFire deployment.

- [GemFire Region Metrics](#) on page 276

The table below defines the metrics available for the region service resources in a GemFire deployment.

- [Gateway Hub 6.5 Gateway Metrics](#) on page 277

This topic details the Gateway Hub 6.5 Gateway metrics.

GemFire Distributed System Metrics

This topic details the GemFire Distributed System metrics.

Table 6-11. GemFire Distributed System Metrics

Name	Alias	Description	Units	Category	Default On	Default Interval
Availability	Availability	The DS is considered available if the Hyperic Agent can connect to the JMX Agent for the DS.	percentage	AVAILABILITY	true	1 min
Cache Servers	n_caches	Number of Cache Servers in the DS.	none	UTILIZATION	true	5 min
Applications Peer	n_apps	Number of Application Peers in the DS.	none	UTILIZATION	true	5 min
Gateway Hubs	n_gateways	Number of Gateway Hubs in the DS.	none	UTILIZATION	true	5 min

GemFire Member Metrics

The table below defines the metrics available for the server resources in a GemFire deployment.

- [Gateway Hub 6.5](#)
- [Cache Server 6.5 Metrics](#)
- [Application Peer 6.5](#)

Table 6-12. Member Metrics

Name	Alias	Definition	Units	Category	Default On	Default Interval
Availability	Availability	N/A	percentage	AVAILABILITY	true	5 min
Used Heap	used_memory	gemfire. member. stat. usedmemory. long	percentage	UTILIZATION	true	5 min

Table 6-12. Member Metrics (Continued)

Name	Alias	Definition	Units	Category	Default On	Default Interval
Used CPU	used_cpu	gemfire. member. stat. maxmemory.l ong	percentage	UTILIZATIO N	true	5 min
Uptime	uptime	gemfire. member. uptime.long	sec	UTILIZATIO N	true	30 min
Number of Clients	nclients	N/A	none	UTILIZATIO N	false	5 min
Gets	stat.gets	gemfire. member. state. gets. int	none	UTILIZATIO N	false	10 min
Gets per Minute	stat.gets1m	N/A	none	UTILIZATIO N	false	10 min
GetTime	stat.gettime	gemfire. member. stat. gettime. long	sec	UTILIZATIO N	false	5 min
Puts	stat.puts	gemfire. member. stat. puts. int	none	UTILIZATIO N	false	10 min
Puts per Minute	stat.puts1m	N/A	none	UTILIZATIO N	false	10 min
PutTime	stat.puttime	gemfire. member. stat. puttime. long	sec	UTILIZATIO N	false	5 min

GemFire Region Metrics

The table below defines the metrics available for the region service resources in a GemFire deployment.

- Cache Server 6.5 Region
- Application Peer 6.5 Region
- Gateway Hub 6.5 Region

Table 6-13. Region Metrics

Name	Alias	Definition	Units	Category	Default On	Default Interval
Availability	Availability	N/A	percentage	AVAILABILITY	true	10 min
Entry Count	entry_count	Number of regions; gemfire. region. entrycount. int	none	UTILIZATION	true	5 min

Gateway Hub 6.5 Gateway Metrics

This topic details the Gateway Hub 6.5 Gateway metrics.

Table 6-14. Gateway Hub 6.5 Gateway Metrics

Name	Alias	Definition	Units	Category	Default On	Default Interval
Availability	Availability	N/A	percentage	AVAILABILITY	true	10 min
Queue size	queuesize	gemfire. member. gateway. queuesize. int	none	UTILIZATION	true	5 min

GemFire Events

This topic details the GemFire events.

Table 6-15. GemFire Events

Event	Notification Type	Notification Source	Notification Message
A new member has joined the GemFire Enterprise DS.	gemfire.distributedsystem.member.joined	ObjectName of the member.	String id of the member.
A member has left the GemFire Enterprise DS	gemfire.distributedsystem.member.left	ObjectName of the member.	String id of the member.
A member has crashed in the GemFire Enterprise DS	gemfire.distributedsystem.member.crashed	ObjectName of the member.	String id of the member.
An alert raised from GemFire after scraping the logs of members of the GemFire Enterprise DS.	gemfire.distributedsystem.alert	String form of ObjectName of the AdminDistributedSystem MBean.	Message containing the alert details in a fixed format.
The agent has disconnected from the GemFire Enterprise DS.	gemfire.distributedsystem.disconnect	String form of ObjectName of the AdminDistributedSystem MBean.	null
A cache is created on a member in a GemFire Enterprise DS.	gemfire.distributedsystem.cache.created	ObjectName of the member.	N/A

Table 6-15. GemFire Events (Continued)

Event	Notification Type	Notification Source	Notification Message
A cache is closed on a member in a GemFire Enterprise DS.	gemfire.distributedsystem.cache.closed	ObjectName of the member.	N/A
A region is created in a cache on a member in a GemFire Enterprise DS.	gemfire.distributedsystem.cache.region.created	ObjectName of the member.	N/A
A region is removed from a cache on a member in a GemFire Enterprise DS.	gemfire.distributedsystem.cache.region.lost	ObjectName of the member.	N/A

vCenter Hyperic GemFire View

vCenter Hyperic's GemFire plugin provides a live data user interface for viewing metrics in real-time.

(As opposed to the **Monitor** tab for a GemFire component, which presents metrics that have been saved to the vCenter Hyperic database).

GemFire View for a DS

The vCenter Hyperic GemFire View for a Distributed System displays Servers in the DS, Gateways in the DS, and Clients connected to the DS.

The table in the middle of the GemFire View for a DS displays inventory properties and last reported metric values for each server (including Cache Servers, Gateway Hubs and Application Peers) the DS.

- Servers in the DS - The number of Cache Servers, Gateway Hubs and Application Peers in the DS.
- Gateways in the DS - If the DS is part of a multi-site deployment, the number of Gateways in the DS's Gateway Hub.
- Clients connected to the DS - The number of clients (Cache Servers, Gateways, or Application Peers) in other Distributed Systems that are connected to the DS.

GemFire View for a Cache Server or Application Peer

The GemFire View for a Cache Server or Application Peer displays server and region inventory properties and metrics.

- Server metrics - The single row table presents last reported metric values for the Cache Server or Application Peer.
- Region metrics - The multi-row table presents inventory properties and the Entry Count metric for each region the server contains.

GemFire View for a Gateway Hub

The GemFire View for a Gateway Hub displays inventory data and live measurements for the Gateway Hub, the Hubs and Regions it contains, and any clients connected to the Hub.

Network Platform Services

A vCenter Hyperic agent can monitor a variety of remote services over the network. To enable monitoring of a service on the network, you configure a platform service on an operating system platform.

The platform service you configure is a proxy for the remote service - in the vCenter Hyperic user interface, the remote service appears as a "child" of the platform whose agent monitors it.

Platform services are displayed for a selected platform. The resources marked with an arrow are network services that have been configured as platform services on the platform. The network services on the platform include multiple HTTP services, an IMAP service, an RPC service, and an SSH service. The resource named "HTTP" is an autogroup that represents all of the HTTP services configured on the platform. The other platform services in the list are local services (CPUs, FileServer Mounts, and NetworkServer Interfaces) that the agent auto-discovered.

The availability of each network service, and each autogroup of network services, is indicated by an icon:

- Green - "Available", indicates that a service (or all of the services in an autogroup) is available.
- Yellow - The "Warning" availability state does not apply to an individual network service, with few exceptions. Generally, the agent reports that a network service is either "Available" (green) or "Not Available" (red). The "Warning" state is reported for an autogroup of network services, and indicates that not all of the services in the group are available.
- Red - "Not Available", indicates that the service (or all of the services in an autogroup) is not available.
- Grey - "Unknown", indicates that availability cannot be determined, because the service was created, but not configured correctly.
- [Configuration Requirements and Options for Monitoring Network Services](#) on page 280
This section explains the minimum, and optional configuration requirements and options for monitoring network services.
- [Metrics for Network Services](#) on page 280
This section explains the metrics reported for a remote service according to type.
- [Classes for Monitoring a Network Service](#) on page 280
This section explains the network services that are monitored by classes in vCenter Hyperic's netservices plugin.
- [Services vCenter Hyperic Can Monitor Over the Network](#) on page 280
This section provides information on the resource types that vCenter Hyperic can monitor over the network.

Configuration Requirements and Options for Monitoring Network Services

This section explains the minimum, and optional configuration requirements and options for monitoring network services.

Configuration requirements vary by the type of network service you wish to monitor. At a minimum you must configure the location of the network resource, and depending on the resource, you may also need to supply the credentials required to access it.

You can optionally configure event tracking for any type of network service that vCenter Hyperic monitors. If you do, the agent will log an event for responses that match the criteria you specify. You can define alert conditions based on events logged for remote service, just as you can for managed resources on the same platform as the agent.

Metrics for Network Services

This section explains the metrics reported for a remote service according to type.

The metrics reported for a remote service varies by type.

- **Availability** - The vCenter Hyperic agent reports availability for any network service that it can monitor. Availability is determined by various means, depending on the protocol used to communicate with the managed resource. This process typically consists of opening a socket, reading and writing from it, and closing it. For some services, this alone constitutes availability, for other services, availability is conditioned on response content, such as a response level or code. The type of request the agent issues to determine availability is protocol-dependent.
- **Response Time** - Like availability, response time is reported for any network service that the vCenter Hyperic agent can monitor. Response time for a network service reflects the length of time (in ms) that the agent takes to determine service availability.
- **Connection Metrics** - For service types that are purely connection-based, connection state metrics, obtained using netstat, are typically available. Note that connection metrics are not enabled by default. To collect connection metrics for a network service, enable them on the Monitoring Defaults page for the service type.

Classes for Monitoring a Network Service

This section explains the network services that are monitored by classes in vCenter Hyperic's netsservices plugin.

Most network services are monitored by classes in vCenter Hyperic's netsservices plugin. However, if you monitor a remote SNMP agent, vCenter Hyperic's SNMPMeasurement plugin performs most of the metric collection.

Services vCenter Hyperic Can Monitor Over the Network

This section provides information on the resource types that vCenter Hyperic can monitor over the network.

The following sections correspond to the resource types that vCenter Hyperic can monitor over the network. Click a link for information on how to configure a platform service resource of that type, and for information on supported metrics and default monitoring settings.

- [DHCP Platform Service](#) on page 281
This section describes how to monitor and configure the DHCP server.
- [DNS Platform Service](#) on page 284
This section describes how to monitor and configure the DNS service.

- [FTP Platform Service](#) on page 288
You can configure a platform service of type "FTP" to report the availability of a remote FTP service.
- [HTTP Platform Service](#) on page 291
vCenter Hyperic can monitor an HTTP service over the network. You configure a platform service of type "HTTP" on the operating system platform of your choice. The vCenter Hyperic agent on that platform collects the metrics for the remote service and presents them under the newly created platform service.
- [IMAP Platform Service](#) on page 296
You can configure a platform service of type "IMAP" to report the availability of a remote IMAP service.
- [InetAddress Ping Platform Service](#) on page 299
This sections explains how to set up a platform service to report the availability of a remote host by pinging its internet address.
- [LDAP Platform Service](#) on page 301
This section explains how to configure a platform service of type "LDAP" to report the availability of a remote LDAP service.
- [NTP Platform Service](#) on page 305
This section explains how to configure a platform service of type "NTP" to report the availability of a remote NTP server.
- [POP3 Platform Service](#) on page 307
This section explains how to configure a platform service of type "POP3" to report the availability of a remote POP3 service.
- [RPC Platform Service](#) on page 310
This section explains how to configure a platform service of type "RPC" to report the availability of a remote RPC service over the network.
- [SMTP Platform Service](#) on page 312
This section explains how to configure a platform service of type "SMTP".
- [SNMP Platform Service](#) on page 315
This section describes how to configure a platform service of type "SNMP" to report the availability of a remote SNMP agent.
- [SSH Platform Service](#) on page 318
This section explains how to configure a platform service of type "SSH" on the operating system platform of your choice.
- [TCP Socket Platform Service](#) on page 320
This section explains how to configure a platform service of type "TCP" on the operating system platform of your choice.

DHCP Platform Service

This section describes how to monitor and configure the DHCP server.

- [Monitor a Remote DHCP Service](#) on page 282
You can configure a platform service of type "DHCP" to report the availability of a remote Dynamic Host Configuration Protocol (DHCP) server.
- [DHCP Netservices Plugin Functions](#) on page 282
This section explains the functions performed by vCenter Hyperic's netservices plugin.

- [Configure the DHCP Service](#) on page 282
This topic provides instructions for configuring the DHCP service.
- [DHCP Configuration Options](#) on page 282
This section details the options in the configuration schema for the DHCP service type.
- [DHCP Metrics](#) on page 283
This topic details the metrics for the DHCP service.
- [Define DHCP Monitoring Defaults](#) on page 284
- [DHCP Event Tracking](#) on page 284
This section explains how to enable event tracking.

Monitor a Remote DHCP Service

You can configure a platform service of type "DHCP" to report the availability of a remote Dynamic Host Configuration Protocol (DHCP) server.

DHCP NetServices Plugin Functions

This section explains the functions performed by vCenter Hyperic's netservices plugin.

The DHCP service type is managed by vCenter Hyperic's netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.DHCPCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the DHCP Service

This topic provides instructions for configuring the DHCP service.

Procedure

- 1 Navigate to the platform whose Agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "DHCP" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in "[DHCP Configuration Options](#)," on page 282.

DHCP Configuration Options

This section details the options in the configuration schema for the DHCP service type.

Properties in the plugin descriptor set default values for:

- `port` to 67.
- `hostname` to 255.255.255.255 - This is the IP limited broadcast address. Packets will be broadcast to all NICs on the same network segment as the source NIC, and not forwarded by a router. You can also use the IP address of a specific DHCP server.

Table 7-1. DHCP Configuration Options

<option> Name	Description	Default	Optional	Type	Notes	Parent Schema
hwaddr	Hardware (MAC) Address	N/A	true	N/A	If MAC address is supplied, the plugin will issue a request for the IP address mapped to the MAC address on the DHCP Server. If the DHCP client request packet will be forwarded by a router to a DHCP server in a different subnet, the router must support static allocation.	dhcp
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

DHCP Metrics

This topic details the metrics for the DHCP service.

- Availability - The DHCP service is considered available if the DHCP server issues an IP address lease offer in response to a DHCP DISCOVER from the DHCPClient class.
- Response Time - The time (in ms) it took to determine service availability.

Define DHCP Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

DHCP Event Tracking

This section explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

DNS Platform Service

This section describes how to monitor and configure the DNS service.

- [Monitor a Remote DNS Service](#) on page 284
You can configure a platform service of type "DNS" to report the availability of a remote DNS service.
- [DNS Net services Plugin Functions](#) on page 285
This section explains the functions performed by vCenter Hyperic's net services plugin.
- [Configure a DNS Service in vCenter Hyperic](#) on page 285
These steps will allow you to manually configure the "DNS" service type on an operating system platform.
- [DNS Configuration Options](#) on page 285
This section details the options in the configuration schema for the DNS service type in the net services plugin descriptor.
- [DNS Metrics](#) on page 287
This section details the DNS metrics.
- [Define DNS Monitoring Defaults](#) on page 288
These steps will allow you to tailor the monitoring defaults.
- [DNS Event Tracking](#) on page 288
This section explains how to enable event tracking.

Monitor a Remote DNS Service

You can configure a platform service of type "DNS" to report the availability of a remote DNS service.

DNS Net services Plugin Functions

This section explains the functions performed by vCenter Hyperic's net services plugin.

The "DNS" service type is managed by vCenter Hyperic's net services plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.net services.DNSCollector`.
- Event tracking using the `reportEvent` method in the `Collector` class to report DNS error codes and messages.

Configure a DNS Service in vCenter Hyperic

These steps will allow you to manually configure the "DNS" service type on an operating system platform.

Procedure

- 1 Navigate to the platform whose Agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "DNS" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["DNS Configuration Options,"](#) on page 285.

DNS Configuration Options

This section details the options in the configuration schema for the DNS service type in the net services plugin descriptor.

A property in the plugin descriptor sets the default value of port for a DNS service to 53.

Table 7-2. DNS Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
lookupname	Lookup Name	www.hyperic.com	N/A	N/A	Hostname to use in queries to the DNS service.	dns
pattern	Answer Match	N/A	true	N/A	<p>This setting affects how the agent will determine availability of the DNS service.</p> <p>If you do not enter a value, if the agent can connect to the DNS service, the agent will report it to be available, even if no Answers are returned.</p> <p>If you enter an asterisk, the agent will report the DNS service to be available if the service returns an Answer to a query.</p> <p>If you enter a regular expression or substring, the agent will report the DNS service to be available if it returns an Answer that matches the pattern.</p>	dns
type	Record type	N/A	N/A	enum	The DNS resource record type to use in queries to the DNS service. Selector list values are: A, ANY, CNAME, MX, NS, TXT.	dns

Table 7-2. DNS Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

DNS Metrics

This section details the DNS metrics.

Table 7-3. DNS Metrics

Metric	Definition
Availability	If no value is specified for the <code>pattern</code> configuration option, the DNS service is considered to be available if the Hyperic agent can contact it, whether or not any Answers are returned. If an asterisk is specified for the <code>pattern</code> option, the service is considered available if at least one Answer is returned. If <code>pattern</code> is set to a substring or regular expression, the service is considered available if at least one Answer returned matches the expression. If Answers are returned that do not match the pattern, Availability is reported at the "Warning" level.
Response Time	Time in ms it took to determine availability.
Answers	Number of resource Record(s) which answer the question.
Authority Records	Number of Resource Record(s) which point to the domain authority.
Additional Records	Number of Resource Record(s) which may hold additional information

Define DNS Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

DNS Event Tracking

This section explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

FTP Platform Service

You can configure a platform service of type "FTP" to report the availability of a remote FTP service.

- [FTP Netservices Plugin Functions](#) on page 288
This topic explains the functions performed by vCenter Hyperic's netservices plugin.
- [Configure the FTP Service](#) on page 289
This section explains how to configure the FTP service. You manually configure an FTP service on supported Unix-like platforms.
- [FTP Configuration Options](#) on page 289
This section details the options in the configuration schema for the FTP service type the netservices plugin descriptor.
- [FTP Metrics](#) on page 290
This topic details the metrics for the FTP service.
- [Define FTP Monitoring Defaults](#) on page 290
This topic provides instructions for defining the FTP monitoring defaults.
- [FTP Event Tracking](#) on page 291
This topic explains how to enable event tracking.

FTP Netservices Plugin Functions

This topic explains the functions performed by vCenter Hyperic's netservices plugin.

The "FTP" service type is managed by vCenter Hyperic's netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.FTPCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the FTP Service

This section explains how to configure the FTP service. You manually configure an FTP service on supported Unix-like platforms.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select **FTP** from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in [“FTP Configuration Options,”](#) on page 289.

FTP Configuration Options

This section details the options in the configuration schema for the FTP service type the netservices plugin descriptor.

Note the following:

- If user and pass are not configured, the anonymous credentials defined in the `org.hyperic.hq.plugin.netservices.FTPCollector` class "anonymous" and "hyperic-monitor@" are used to connect to the FTP server.
- The default value of port is set to 21 by a property in the netservices plugin descriptor.

Table 7-4. FTP Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

Table 7-4. FTP Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
user	Username	N/A	true	N/A	Supply if target site is password-protected.	credentials
pass	Password	N/A	true	secret	Supply if target site is password-protected.	credentials

FTP Metrics

This topic details the metrics for the FTP service.

- Availability - An FTP service is considered available if the 3 digit response code it returns begins with 1, 3, or 3. The agent reports the service to be unavailable if there is no response, or a response code that begins with 4 or 5.
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- Response Time - The time (in ms) it took to determine service availability.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN
 - SYN_RECEIVED
 - SYN_SEND
 - TIME_WAIT

Define FTP Monitoring Defaults

This topic provides instructions for defining the FTP monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

FTP Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

HTTP Platform Service

vCenter Hyperic can monitor an HTTP service over the network. You configure a platform service of type "HTTP" on the operating system platform of your choice. The vCenter Hyperic agent on that platform collects the metrics for the remote service and presents them under the newly created platform service.

- [HTTP Net services Plugin Functions](#) on page 291
This section explains the functions performed by the net services plugin.
- [Configure the HTTP Service](#) on page 291
These steps will allow you to configure the "HTTP" service in vCenter Hyperic. The "HTTP" service type must be manually configured.
- [HTTP Configuration Options](#) on page 292
This section details the options in the configuration schema for the "HTTP" service type.
- [HTTP Metrics](#) on page 295
This topic details the metrics for the HTTP service.
- [Define HTTP Monitoring Defaults](#) on page 296
These steps will allow you to tailor the monitoring defaults.
- [HTTP Event Tracking](#) on page 296
This section explains how to enable event tracking.

HTTP Net services Plugin Functions

This section explains the functions performed by the net services plugin.

The "HTTP" service type is managed by vCenter Hyperic's net services plugin and performs the following functions:

- Metric collection is performed by the plugin's HTTPCollector class.
- Event tracking using the reportEvent method in the org.hyperic.hq.product.Collector class.

Configure the HTTP Service

These steps will allow you to configure the "HTTP" service in vCenter Hyperic. The "HTTP" service type must be manually configured.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "HTTP" from the **Service Type** pull-down.

- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in [“HTTP Configuration Options,”](#) on page 292.

HTTP Configuration Options

This section details the options in the configuration schema for the "HTTP" service type.

The tables below define the options in the configuration schema for the "HTTP" service type. These are the resource attributes that are displayed, and may be edited, on the Configuration Properties page for an HTTP service, shown above.

The first table defines options specified explicitly in the HTTP configuration schema. The other tables document the options included from "building block" schemas. The far right column contains the name of the configuration schema that defines it.

For the HTTP service type, the netsservices plugin descriptor sets value of:

- port to 80
- sslport to 443

Table 7-5. HTTP Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
method	Request Method	HEAD	false	enum	Allowable values: HEAD, GET. Method for checking availability. HEAD results in less network traffic. Use GET to return the body of the request response if you wish to specify a pattern to match in the response.	http
hostheader	Host Header	none	true	N/A	Use this option to set a "Host" HTTP header in the request, useful if you use name-based virtual hosting. Specify the host name of the Vhost's host, for example, blog.hyperic.com	http

Table 7-5. HTTP Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
follow	Follow Redirects	enabled	true	boolean	Enable if the HTTP request that Hyperic generates will be re-directed. This is important, because an HTTP server returns a different code for a redirect and Hyperic will assume that the HTTP service check is not available if it is a redirect, unless this redirect configuration is set.	http
pattern	Response Match (substring or regex)	none	true	N/A	Specify a pattern or substring that Hyperic will attempt to match against the content in the HTTP response. This allows you to check that in addition to being available, the service is serving the content you expect.	http
proxy	Proxy Connection	none	true	N/A	If connection to the HTTP service will go through a proxy server, supply the hostname and port for the proxy server. For example, proxy.myco.com:3128	http

Table 7-5. HTTP Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
path	Path	/	false	N/A	Enter a value to monitor a specific page or file on the site. for example: /Support.html	url
ssl	Use SSL	false	true	boolean	N/A	ssl
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr
realm	Realm	N/A	true	N/A	Supply security realm if target site is password-protected.	basicauth
user	Username	N/A	true	N/A	Supply if target site is password-protected.	credentials
pass	Password	N/A	true	secret	Supply if target site is password-protected.	credentials

HTTP Metrics

This topic details the metrics for the HTTP service.

- Availability - An HTTP service is reported to be unavailable if the Hyperic Agent cannot connect to the host configured for the service, or the HTTP response status is one of the following:
 - HTTP_BAD_REQUEST
 - HTTP_FORBIDDEN
 - HTTP_NOT_FOUND
 - HTTP_BAD_METHOD
 - HTTP_CLIENT_TIMEOUT
 - HTTP_CONFLICT
 - HTTP_PRECON_FAILED
 - HTTP_ENTITY_TOO_LARGE
 - HTTP_REQ_TOO_LONG
 - HTTP_INTERNAL_ERROR
 - HTTP_NOT_IMPLEMENTED
 - HTTP_UNAVAILABLE
 - HTTP_VERSION
 - HTTP_BAD_GATEWAY
 - HTTP_GATEWAY_TIMEOUT
 - HTTP_UNAUTHORIZED
- Response Code - Response code from the HTTP response returned. Note that if the plugin could not reach the host configured for the service, no HTTP response code is reported.
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- Response Time - The time it took to determine service availability.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN
 - SYN_RECEIVED

- SYN_SEND
- TIME_WAIT

Define HTTP Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

HTTP Event Tracking

This section explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

IMAP Platform Service

You can configure a platform service of type "IMAP" to report the availability of a remote IMAP service.

- [IMAP Netservices Plugin Functions](#) on page 296
This section explains the functions performed by vCenter Hyperic's netservices plugin.
- [Configure the IMAP Service](#) on page 297
These steps will allow you to configure an IMAP on operating system platform types. The IMAP service type must be manually configured.
- [IMAP Configuration Options](#) on page 297
This section details the options in the configuration schema for the IMAP service type.
- [IMAP Metrics](#) on page 298
This section details the metrics for the IMAP service.
- [Define IMAP Monitoring Defaults](#) on page 298
These steps will allow you to tailor the monitoring defaults.
- [IMAP Event Tracking](#) on page 298
This section explains how to enable event tracking.

IMAP Netservices Plugin Functions

This section explains the functions performed by vCenter Hyperic's netservices plugin.

The IMAP platform service type is managed by vCenter Hyperic's netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.IMAPCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the IMAP Service

These steps will allow you to configure an IMAP on operating system platform types. The IMAP service type must be manually configured.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "IMAP" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["IMAP Configuration Options,"](#) on page 297.

IMAP Configuration Options

This section details the options in the configuration schema for the IMAP service type.

The default option values are defined by properties in the `netservices.plugin.descriptor`:

- `port` to 10
- `sslport` to 143

Table 7-6. IMAP Configuration Options

<option> Name	Description	Default	Optional	Type	Notes	Parent Schema
ssl	Use SSL	false	true	boolean	N/A	ssl
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

IMAP Metrics

This section details the metrics for the IMAP service.

- Availability - The IMAP service type is considered available if the agent can establish a socket connection with the IMAP server, issue a response and receive a response of type "OK".
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- Response Time - The time it took to determine service availability.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN
 - SYN_RECEIVED
 - SYN_SEND
 - TIME_WAIT

Define IMAP Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

IMAP Event Tracking

This section explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

InetAddress Ping Platform Service

This section explains how to set up a platform service to report the availability of a remote host by pinging its internet address.

You can set up a platform service to report the availability of a remote host by pinging its internet address. You configure a platform service of type "InetAddress Ping" on the operating system platform of your choice. The vCenter Hyperic agent on that platform pings the address and reports availability under the newly created platform service.

Note these requirements:

- The Hyperic agent must run with Java 1.5 or higher.
- On Unix-like systems, the vCenter Hyperic agent must run as root to ICMP ping some hosts.
- [InetAddress Ping NetServices Plugin Functions](#) on page 299
This section explains the functions performed by the netservices plugin.
- [Configure the InetAddress Ping Service](#) on page 299
These steps will allow you to configure the InetAddress Ping service in Hyperic. The InetAddress Ping service type must be manually configured.
- [InetAddress Ping Configuration Options](#) on page 300
This section details the options in the configuration schema for the "InetAddress Ping" service type.
- [InetAddress Ping Metrics](#) on page 300
This section details the metrics for the InetAddress Ping service.
- [Define InetAddress Ping Monitoring Defaults](#) on page 300
These steps will allow you to tailor the monitoring defaults.
- [InetAddress Ping Event Tracking](#) on page 300
This section explains how to enable event tracking.

InetAddress Ping NetServices Plugin Functions

This section explains the functions performed by the netservices plugin.

The InetAddress Ping service type is managed by the netservices plugin. The plugin performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.InetAddressChecker` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the InetAddress Ping Service

These steps will allow you to configure the InetAddress Ping service in Hyperic. The InetAddress Ping service type must be manually configured.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "**InetAddress Ping**" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in "[InetAddress Ping Configuration Options](#)," on page 300.

InetAddress Ping Configuration Options

This section details the options in the configuration schema for the "InetAddress Ping" service type.

These are the resource attributes that are displayed, and may be edited, on the Configuration Properties page for an InetAddress Ping service, shown above.

Table 7-7. InetAddress Ping Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	N/A	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	netservices plugin descriptor
sotimeout	Socket Timeout (in seconds)	10	N/A	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	netservices plugin descriptor

InetAddress Ping Metrics

This section details the metrics for the InetAddress Ping service.

- Availability - The vCenter Hyperic agent checks the availability of internet address using the `java.net.InetAddress.isReachable` method.
- Response Time - How long (in ms) it took to determine availability.

Define InetAddress Ping Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

InetAddress Ping Event Tracking

This section explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

LDAP Platform Service

This section explains how to configure a platform service of type "LDAP" to report the availability of a remote LDAP service.

- [LDAP Netservices Plugin Functions](#) on page 301
This section explains the functions performed by the netservices plugin.
- [Configure the LDAP Service](#) on page 301
This section explains how to configure the LDAP service. You manually configure an LDAP service on operating system platform types.
- [LDAP Configuration Options](#) on page 301
This section details the options in the configuration schema for the "LDAP" service type.
- [LDAP Metrics](#) on page 304
This section details the metrics for the LDAP service.
- [Define LDAP Monitoring Defaults](#) on page 305
These steps will allow you to tailor the monitoring defaults.
- [LDAP Event Tracking](#) on page 305
This section explains how to enable event tracking.

LDAP Netservices Plugin Functions

This section explains the functions performed by the netservices plugin.

The LDAP service type is managed by the netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.LDAPCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the LDAP Service

This section explains how to configure the LDAP service. You manually configure an LDAP service on operating system platform types.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select **"LDAP"** from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["LDAP Configuration Options,"](#) on page 301.

LDAP Configuration Options

This section details the options in the configuration schema for the "LDAP" service type.

For the HTTP service type, the netservices plugin descriptor sets value of:

- `port` to 389
- `sslport` to 636

Table 7-8. LDAP Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
baseDN	Search Base	N/A	N/A	N/A	The top level of the LDAP directory tree, in X.500 format, for example: o="hyperic",c=US	ldap
bindDN	Bind DN	N/A	true	N/A	The user on the external LDAP server permitted to search the LDAP directory within the defined search base. Supply if directory requires authentication prior to search. Not necessary if anonymous searches are allowed.	ldap
bindPW	Bind Password	N/A	true	secret	Password for user permitted to search the LDAP directory. Supply if directory requires authentication prior to search. Not necessary if anonymous searches are allowed.	ldap

Table 7-8. LDAP Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
filter	Search Filter	N/A	true	N/A	Use to specify entries to search using one or more boolean expressions, based on LDAP attributes. If you specify multiple expressions, prefix them with a logical operator. Here are two example filters: (!(location=SFO*)) - matches if value of location attribute does not begin with "SFO". ((facility=Mission)(facility=Financial)) - matches if value of location attribute is either "Mission" or "Financial".	ldap
ssl	Use SSL	false	true	boolean	N/A	ssl
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr

Table 7-8. LDAP Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

LDAP Metrics

This section details the metrics for the LDAP service.

- Availability - If the agent can connect to an LDAP services and create an initial context, it reports the services to be reports an ldap service to be available.
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN
 - SYN_RECEIVED
 - SYN_SEND
 - TIME_WAIT

Define LDAP Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

LDAP Event Tracking

This section explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

NTP Platform Service

This section explains how to configure a platform service of type "NTP" to report the availability of a remote NTP server.

- [NTP Net services Plugin Functions](#) on page 305
This section explains the functions performed by the net services plugin.
- [Configure the NTP Service](#) on page 306
This section explains how to configure the NTP service. You manually configure an NTP service on operating system platform types.
- [NTP Configuration Options](#) on page 306
This section details the options in the configuration schema for the "NTP" service type.
- [NTP Metrics](#) on page 306
This section details the metrics for the NTP service.
- [Define NTP Monitoring Defaults](#) on page 307
These steps will allow you to tailor the monitoring defaults.
- [NTP Event Tracking](#) on page 307
This topic explains how to enable event tracking.

NTP Net services Plugin Functions

This section explains the functions performed by the net services plugin.

The NTP platform service type is managed by the net services plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.net services.NTPCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the NTP Service

This section explains how to configure the NTP service. You manually configure an NTP service on operating system platform types.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "NTP" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["NTP Configuration Options,"](#) on page 306.

NTP Configuration Options

This section details the options in the configuration schema for the "NTP" service type.

The default value of port is set to 123 by a property in the netservices plugin descriptor.

Table 7-9. NTP Configuration Options

<option> Name	Description	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

NTP Metrics

This section details the metrics for the NTP service.

- Availability - A NTP service is considered available if the connection to the NTP server succeeds.
- Local Clock Offset - The difference in time between the local clock and the reference clock.
- Response Time - The time it took to determine service availability.

- **Round Trip Delay** - The delay for a message launched to arrive at the configured reference clock at a specific time. Measured in seconds with a fraction point between bits 15 and 16. May take positive or negative value, depending on the relative time and frequency offsets. Normal values range from negative values of a few milliseconds to positive values of several hundred milliseconds.
- **Root Delay** - The delay for a message launched to arrive at the primary reference source at the root of the NTP subnet. Measured in seconds with fraction point between bits 15 and 16. May take positive or negative value, depending on the relative time and frequency offsets. Normal values range from negative values of a few milliseconds to positive values of several hundred milliseconds.
- **Root Dispersion** - Maximum error relative to the primary reference source at the root of the NTP subnet. Measures all the errors associated with the network hops and servers between client and the reference source, in seconds.

Define NTP Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

NTP Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

POP3 Platform Service

This section explains how to configure a platform service of type "POP3" to report the availability of a remote POP3 service.

- [POP3 Netservices Plugin Functions](#) on page 308
This topic explains the functions performed by the netservices plugin.
- [Configure the POP3 Service](#) on page 308
This section explains how to configure the POP3 service in Hyperic. You manually configure a POP3 service on operating system platform types.
- [POP3 Configuration Options](#) on page 308
This section details the options in the configuration schema for the POP3 service type.
- [POP3 Metrics](#) on page 309
This topic details the metrics for the POP3 service.
- [Define POP3 Monitoring Defaults](#) on page 310
These steps will allow you to tailor the monitoring defaults.

- [POP3 Event Tracking](#) on page 310

This topic explains how to enable event tracking.

POP3 NetServices Plugin Functions

This topic explains the functions performed by the netservices plugin.

The POP3 platform service type is managed by netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.POP3Collector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the POP3 Service

This section explains how to configure the POP3 service in Hyperic. You manually configure a POP3 service on operating system platform types.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select **"POP3"** from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["POP3 Configuration Options,"](#) on page 308.

POP3 Configuration Options

This section details the options in the configuration schema for the POP3 service type.

These default option values are defined by properties in the netservices plugin descriptor:

- `port` to 110
- `sslport` to 995

Table 7-10. Configuration Options

<option> Name	Description	Default	Optional	Type	Notes	Parent Schema
ssl	Use SSL	false	true	boolean	N/A	ssl
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr

Table 7-10. Configuration Options (Continued)

<option> Name	Description	Default	Optional	Type	Notes	Parent Schema
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr
user	Username	N/A	true	N/A	Supply if target site is password-protected.	credentials
pass	Password	N/A	true	secret	Supply if target site is password-protected.	credentials

POP3 Metrics

This topic details the metrics for the POP3 service.

- Availability - A POP3 service is reported to be available if the agent can connect to the POP3 server, and the POP3 server's response is of type "+OK".
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- Response Time - The time it took to determine service availability.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN
 - SYN_RECEIVED
 - SYN_SEND
 - TIME_WAIT

Define POP3 Monitoring Defaults

These steps will allow you to tailor the monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

POP3 Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

RPC Platform Service

This section explains how to configure a platform service of type "RPC" to report the availability of a remote RPC service over the network.

The RPC service must be registered with its host's portmapper daemon. You configure the host where the RPC service runs, the name of the service, and the protocol it uses.

- [RPC Net services Plugin Functions](#) on page 310
This topic explains the functions performed by the net services plugin.
- [Configure the RPC Service](#) on page 311
This topic explains how to configure the RPC service. You manually configure an RPC service on supported Unix-like platforms.
- [RPC Configuration Options](#) on page 311
This section details the options in the configuration schema for the RPC service type in the net services plugin descriptor.
- [RPC Metrics](#) on page 311
This topic details the metrics for the RPC service.
- [Define RPC Monitoring Defaults](#) on page 312
This topic explains how to define RPC monitoring defaults.
- [RPC Event Tracking](#) on page 312
This topic explains how to enable RPC event tracking.

RPC Net services Plugin Functions

This topic explains the functions performed by the net services plugin.

The RPC services are monitored by net services plugin:

- Monitoring is performed by the `org.hyperic.hq.plugin.net services.RPCCollector` class.

- Event tracking is performed by the `reportEvent` method in the `Collector` class.

Configure the RPC Service

This topic explains how to configure the RPC service. You manually configure an RPC service on supported Unix-like platforms.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select **"RPC"** from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["RPC Configuration Options,"](#) on page 311.

RPC Configuration Options

This section details the options in the configuration schema for the RPC service type in the `net` services plugin descriptor.

Table 7-11. RPC Configuration Options

<option> Name in Plugin	Description in Hyperic UI	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	no	string	IP address or domain name of the RPC host.	rpc
program	RPC program	nfs	no	string	The name by which the program is registered with its host portmapper.	rpc
version	RPC version	2	no	int	N/A	rpc
protocol	RPC protocol	any	no	enum	Specifies transport protocol to use to ping the PRC service. Values are "any", "tcp", "udp". If set to "any", Agent will try try TCP first and then UDP, if necessary.	rpc

RPC Metrics

This topic details the metrics for the RPC service.

- Availability - An RPC service is reported as available if it responds to an RPC ping from the agent.
- Response Time - The length of time required to determine service availability.

Define RPC Monitoring Defaults

This topic explains how to define RPC monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

RPC Event Tracking

This topic explains how to enable RPC event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

SMTP Platform Service

This section explains how to configure a platform service of type "SMTP".

vCenter Hyperic can monitor an SMTP service over the network. You configure a platform service of type "SMTP" on the operating system platform of your choice. The vCenter Hyperic agent on that platform collects the metrics for the remote service and presents them under the newly created platform service.

- [SMTP Net services Plugin Functions](#) on page 312
This topic explains the functions performed by the net services plugin.
- [Configure the SMTP Service](#) on page 313
This section explains how to configure the SMTP service. The "SMTP" service type must be manually configured.
- [SMTP Configuration Options](#) on page 313
This section details the options in the configuration schema for the SMTP service type.
- [SMTP Metrics](#) on page 314
This topic details the metrics for the SMTP service.
- [Define SMTP Monitoring Defaults](#) on page 314
This topic explains how to define monitoring defaults.
- [SMTP Event Tracking](#) on page 314
This topic explains how to enable event tracking.

SMTP Net services Plugin Functions

This topic explains the functions performed by the net services plugin.

The SMTP platform service type is managed by net services plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.net services.SMTPCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the SMTP Service

This section explains how to configure the SMTP service. The "SMTP" service type must be manually configured.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "SMTP" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["SMTP Configuration Options,"](#) on page 313.

SMTP Configuration Options

This section details the options in the configuration schema for the SMTP service type.

These are the resource attributes that are displayed, and may be edited, on the Configuration Properties page for an SMTP service, shown above.

For the SMTP service type, the netservices plugin sets values of:

- port to 25
- sslport to 250

Table 7-12. Configuration Options

<option> Name	Description	Default	Optional	Type	Notes	Parent Schema
ssl	Use SSL	false	true	boolean	N/A	ssl
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

SMTP Metrics

This topic details the metrics for the SMTP service.

- Availability - The agent reports an SMTP service available if it can connect to it and read the welcome banner.
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- Response Time - The time (in ms) it took to determine service availability.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN
 - SYN_RECEIVED
 - SYN_SEND
 - TIME_WAIT

Define SMTP Monitoring Defaults

This topic explains how to define monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

SMTP Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

SNMP Platform Service

This section describes how to configure a platform service of type "SNMP" to report the availability of a remote SNMP agent.

- [SNMP Netservices Plugin Functions](#) on page 315
This topic explains the functions performed by the netservices plugin.
- [Configure the SNMP Service](#) on page 315
These steps will allow you to manually configure the "SNMP" service on an operating system platform.
- [SNMP Configuration Options](#) on page 316
This topic details the options in the configuration schema for the SNMP service type.
- [SNMP Metrics](#) on page 317
This topic details the metrics for the SNMP service.
- [Define SNMP Monitoring Defaults](#) on page 318
This topic explains how to define the monitoring defaults for the SNMP service type.
- [SNMP Event Tracking](#) on page 318
This topic explains how to enable event tracking.

SNMP Netservices Plugin Functions

This topic explains the functions performed by the netservices plugin.

The SNMP service type is managed by netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.product.SNMPMeasurementPlugin` class.

Configure the SNMP Service

These steps will allow you to manually configure the "SNMP" service on an operating system platform.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select "SNMP" from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in "[SNMP Configuration Options](#)," on page 316.

SNMP Configuration Options

This topic details the options in the configuration schema for the SNMP service type.

Table 7-13. SNMP Configuration Options

Name	Description	Default	Opt	Type	Notes	Where Defined
OID	OID	N/A	yes	N/A	If supplied, the plugin will issue a query for the value of the OID.	netsservices plugin descriptor
snmpIp	SNMP agent IP address	127.0.0.1	no	N/A	The IP address of the SNMP agent for the network device.	snmp
snmpPort	SNMP agent port	161	no	port	The port the SNMP agent uses.	snmp
snmpTransport	SNMP Transport	N/A	no	enum	Values: ■ udp ■ tcp	snmp
snmpVersion	SNMP Version	N/A	no	enum	Values: ■ v2c ■ v1 ■ v3	snmp
snmpCommunity (v1 and v2c only)	SNMP Community	public	N/A	N/A	N/A	snmp
snmpUser (v3 only)	SNMP Security Name	username	true	N/A	The SNMP security name to use when communicating with the remote SNMP agent.	snmp
snmpSecurityContext (v3 only)	SNMP Context Name	hqadmin	true	N/A	The name of the SNMP context that provides access to the remote management information.	snmp

Table 7-13. SNMP Configuration Options (Continued)

Name	Description	Default	Opt	Type	Notes	Where Defined
snmpAuthType (v3 only)	SNMP Authentication Protocol	none	true	enum	The SNMP authentication protocol to use for communicating with the remote SNMP agent. Values: ■ none ■ MD5 ■ SHA	snmp
snmpPassword (v3 only)	SNMP Authentication Passphrase	N/A	true	secret	The SNMP authorization passphrase to use for communicating with the remote SNMP agent.	snmp
snmpPrivacyType (v3 only)	SNMP Privacy Protocol	N/A	true	enum	The SNMP Privacy Protocol HQ Server should use for communicating with the remote SNMP agent. Values: ■ none ■ DES ■ 3DES ■ AES-128 ■ AES-192 ■ AES-256	snmp
snmpPrivacyPassPhrase (v3 only)	SNMP Privacy Passphrase	N/A	true	secret	The SNMP privacy passphrase configured for use when communicating with the remote SNMP agent.	snmp

SNMP Metrics

This topic details the metrics for the SNMP service.

- Availability - An SNMP service is considered available if the Hyperic Agent is able to get sysUpTime from the remote SNMP agent. Otherwise the service is reported to be unavailable.
- Response Time - The time (in ms) it took to determine service availability.
- OID Value - Value returned by query, if OID option is configured.

Define SNMP Monitoring Defaults

This topic explains how to define the monitoring defaults for the SNMP service type.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

SNMP Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

SSH Platform Service

This section explains how to configure a platform service of type "SSH" on the operating system platform of your choice.

vCenter Hyperic can monitor an SSH service over the network. You configure a platform service of type "SSH" on the operating system platform of your choice. The vCenter Hyperic agent on that platform collects the metrics for the remote service and presents them under the newly created platform service.

- [SSH NetServices Plugin Functions](#) on page 318

This topic explains the functions performed by the netservices plugin.

- [Configure the SSH Service](#) on page 319

These steps will allow you to configure the "SSH" service. The "SSH" service type must be manually configured.

- [SSH Configuration Options](#) on page 319

This section details the options in the configuration schema for the "SSH" service type.

- [SSH Metrics](#) on page 320

This topic details the metrics for the SSH service type.

- [Define SSH Monitoring Defaults](#) on page 320

This topic explains how to define SSH monitoring defaults.

- [SSH Event Tracking](#) on page 320

This topic explains how to enable event tracking.

SSH NetServices Plugin Functions

This topic explains the functions performed by the netservices plugin.

The SSH service type is managed by the netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.SSHCollector` class.

- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the SSH Service

These steps will allow you to configure the "SSH" service. The "SSH" service type must be manually configured.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select **SSH** from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["SSH Configuration Options,"](#) on page 319.

SSH Configuration Options

This section details the options in the configuration schema for the "SSH" service type.

These are the resource attributes that are displayed, and may be edited, on the Configuration Properties page for an SSH service, shown above.

For the SSH service type, the `netservices` plugin sets value of port to 22.

Table 7-14. SSH Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: <code>mysite.com</code>	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the <code>netservices</code> plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

Table 7-14. SSH Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
user	Username	N/A	true	N/A	Supply if target site is password-protected.	credentials
pass	Password	N/A	true	secret	Supply if target site is password-protected.	credentials

SSH Metrics

This topic details the metrics for the SSH service type.

- Availability - An SSH service is considered available if a ping indicates the service is running and able to accept requests.
- Response Time - The time (in ms) it took to determine service availability.

Define SSH Monitoring Defaults

This topic explains how to define SSH monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

SSH Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

TCP Socket Platform Service

This section explains how to configure a platform service of type "TCP" on the operating system platform of your choice.

vCenter Hyperic can monitor an remote TCP server over the network. You configure a platform service of type "TCP" on the operating system platform of your choice. The vCenter Hyperic agent on that platform collects the metrics for the remote service and presents them under the newly created platform service.

- [TCP Socket NetServices Plugin Functions](#) on page 321
This topic describes the functions performed by the netservices plugin.

- [Configure the TCP Socket Service](#) on page 321
These steps will allow you to configure the "TCP Socket" service. The "TCP Socket" service type must be manually configured.
- [TCP Socket Configuration Options](#) on page 321
This section details the options in the configuration schema for the "TCP Socket" service type.
- [TCP Socket Metrics](#) on page 322
This topic details the metrics for the TCP Socket service type.
- [Define TCP Socket Monitoring Defaults](#) on page 323
This topic explains how to define monitoring defaults.
- [TCP Socket Event Tracking](#) on page 323
This topic explains how to enable event tracking.

TCP Socket NetServices Plugin Functions

This topic describes the functions performed by the netservices plugin.

The TCP Socket service type is managed by Hyperic's netservices plugin and performs the following functions:

- Metric collection using the `org.hyperic.hq.plugin.netservices.TCPSocketCollector` class.
- Event tracking using the `reportEvent` method in the `Collector` class.

Configure the TCP Socket Service

These steps will allow you to configure the "TCP Socket" service. The "TCP Socket" service type must be manually configured.

Procedure

- 1 Navigate to the platform whose agent will monitor the service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On New Service page, enter a name for the service and select **"TCP Socket"** from the **Service Type** pull-down.
- 4 Supply all required values on the Configuration Properties page. Configuration options are defined in ["TCP Socket Configuration Options,"](#) on page 321.

TCP Socket Configuration Options

This section details the options in the configuration schema for the "TCP Socket" service type.

These are the resource attributes that are displayed, and may be edited, on the Configuration Properties page for a TCP Socket service, shown above.

Table 7-15. TCP Socket Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
hostname	Hostname	localhost	false	N/A	Hostname of system that hosts the service to monitor. For example: mysite.com	sockaddr
port	Port	A default value for port is usually set for each type of network service by properties in the netservices plugin descriptor.	false	N/A	Port where service listens.	sockaddr
sotimeout	Socket Timeout (in seconds)	10	true	int	The maximum amount of time the agent will wait for a response to a request to the remote service.	sockaddr

TCP Socket Metrics

This topic details the metrics for the TCP Socket service type.

- Availability - A remote TCP service is considered available if the Hyperic agent can open a socket connection to the remote system, write to the stream, and read from the stream.
- Connection Metrics
 - All Inbound Connections - Number of inbound connections of all types to the service.
 - All Outbound Connections - Number of outbound connections of all types from the service.
 - Inbound Connections - Number of inbound TCP connections to the service.
 - Outbound Connections - Number of outbound TCP connections from the service.
- Response Time - The time (in ms) it took to determine service availability.
- TCP connection state metrics - The number of connections in each connection state is reported:
 - CLOSE_WAIT
 - CLOSED
 - ESTABLISHED
 - FIN_WAIT_1
 - FIN_WAIT_2
 - LAST_ACK
 - LISTEN

- SYN_RECEIVED
- SYN_SEND
- TIME_WAIT

Define TCP Socket Monitoring Defaults

This topic explains how to define monitoring defaults.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

TCP Socket Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a network service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

Spring Insight

This section provides information on the nature and functions of Spring Insight.

Spring Insight Operations captures Web application events known as traces. A trace represents a thread of execution. Traces are usually started by an HTTP request but can also be started by a background job. A trace contains operations, which represent significant points in the execution of the trace, for example, a JDBC query or transaction commit. Insight Operations uses trace data to calculate summary information that helps identify the root cause of application performance issues.

Insight Operations has a two-tiered architecture that consists of Spring Insight Dashboard and Spring Insight agent. tc Server instances that run production Web applications run the Spring Insight agent application. Insight Agent collects trace data and sends it to a single, dedicated tc Runtime instance running Spring Insight Dashboard. Insight Dashboard provides a user interface for monitoring applications across all servers and to get detailed statistics from individual servers.

- [Functionality of Hyperic Spring Insight Plugin](#) on page 326
This topic details the functionality of the vCenter Hyperic Spring Insight plugin.
- [Spring Insight Supported Versions and Requirements](#) on page 326
This section details the supported versions and requirements for the Spring Insight plugin.
- [Spring Insight Resources and the Hyperic Inventory Model](#) on page 326
This section details the resource types in Hyperic that map to managed Spring Insight entities.
- [Spring Insight Installation Environment](#) on page 326
This section explains the requirements and parameters for installation of Spring Insight.
- [Spring Insight Configuration Instructions](#) on page 327
This sections provides instructions for configuring the Spring Insight plugin.
- [Spring Insight Resource Types and Management Functions](#) on page 328
This section describes the management functions the Spring Insight plugin performs.
- [Spring Insight Metric Collection](#) on page 329
These sections define the metrics for each Spring Insight resource type.
- [Spring Insight Pre-Configured Alert Definitions](#) on page 331
This section details the pre-configured alert definitions for Spring Insight Application resources.
- [Spring Insight Applications View](#) on page 332
This section explains the Spring Insight applications view.

Functionality of Hyperic Spring Insight Plugin

This topic details the functionality of the vCenter Hyperic Spring Insight plugin.

Hyperic's Spring Insight plugin:

- Collects application metrics from a Spring Insight Dashboard as described below in [“Spring Insight Metric Collection,”](#) on page 329.
- Provides two built-in resource type alerts that apply to all Spring Insight Application resources. The alerts are described in [“Spring Insight Pre-Configured Alert Definitions,”](#) on page 331.
- Provides a user interface for viewing the health of Spring Insight Applications and for analyzing application health and performance issues. For more information, see [“Spring Insight Applications View,”](#) on page 332.

Spring Insight Supported Versions and Requirements

This section details the supported versions and requirements for the Spring Insight plugin.

The Spring Insight plugin requires:

- vCenter Hyperic 4.6 or later.
- Spring Insight Operations 1.5.1.

Spring Insight Resources and the Hyperic Inventory Model

This section details the resource types in Hyperic that map to managed Spring Insight entities.

Table 8-1. Spring Insight Resource Types

Hyperic Resource Type	Description	Hyperic Inventory Type
Spring Insight	Represents the Insight Dashboard application. A tcServer runtime created with the Insight-Dashboard template.	server
Spring Insight Application	A Spring application that is monitored by Insight. An application running in a tc Server runtime created with the Insight-Agent template.	service

NOTE The right column indicates the inventory level for each type in the Hyperic inventory model.

Spring Insight Installation Environment

This section explains the requirements and parameters for installation of Spring Insight.

You must install and configure a vCenter Hyperic agent on both of the following:

- The Insight Dashboard host.
- Each host that runs an Insight Agent reporting to the Insight Dashboard.

If your application server is monitored by a vCenter Hyperic agent, performance metrics for the server instance that a Spring Insight application runs are available in the Spring Insight plugin user interface, described in [“Spring Insight Applications View,”](#) on page 332.

If your application has a database tier, if the database server is managed by a vCenter Hyperic agent, the Spring Application View will include database metrics, along with metrics for the application, application server, and platform tiers.

If you want to see database metrics in the Spring Application View, you must install and configure a vCenter Hyperic agent on the database server host.

Spring Insight Configuration Instructions

This sections provides instructions for configuring the Spring Insight plugin.

- [Step 1: Install vCenter Hyperic Agents](#) on page 327
This topic explains how to install vCenter Hyperic agents.
- [Step 2: Import Insight Dashboard to vCenter Hyperic Inventory](#) on page 327
This section explains how to import the Insight Dashboard to vCenter Hyperic Inventory.
- [Step 3: Tailor Plugin Monitoring Defaults \(Optional\)](#) on page 327
This section explains how to tailor the plugin monitoring defaults for Spring Insight and Spring Insight Application Resources. This step is optional.
- [Step 4: Tailor Alert Definitions \(Optional\)](#) on page 328
This section explains how to tailor the alert definitions for Spring Insight Application Resources. This step is optional.

Step 1: Install vCenter Hyperic Agents

This topic explains how to install vCenter Hyperic agents.

Procedure

- ◆ If you have not already done so, install and start a vCenter Hyperic agent on the host where the Insight Dashboard runs, and on each host of each Insight Agent reporting to the Insight Dashboard.

See *Getting Started with vCenter Hyperic* for instructions.

Step 2: Import Insight Dashboard to vCenter Hyperic Inventory

This section explains how to import the Insight Dashboard to vCenter Hyperic Inventory.

After you start the vCenter Hyperic agent on the Insight Dashboard, and it discovers the Insight Dashboard, the dashboard server resource appears in the Auto-Discovery Portlet on the vCenter Hyperic dashboard.

Procedure

- ◆ Import the resource to inventory to start monitoring the Insight Applications reporting to the dashboard.

Step 3: Tailor Plugin Monitoring Defaults (Optional)

This section explains how to tailor the plugin monitoring defaults for Spring Insight and Spring Insight Application Resources. This step is optional.

See [“Spring Insight Metric Collection,”](#) on page 329 for the default metric collection settings for Spring Insight and Spring Insight Application resources.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page.

Procedure

- 1 Click on the **Administration** tab and select **Monitoring Defaults**.

- 2 Scroll down to the desired resource type - Spring Insight or Spring Insight Application - and click **Edit Metric Template**.

Step 4: Tailor Alert Definitions (Optional)

This section explains how to tailor the alert definitions for Spring Insight Application Resources. This step is optional.

The Spring Insight plugin provides two built-in resource type alerts for Spring Insight Application resources, described in [“Spring Insight Pre-Configured Alert Definitions,”](#) on page 331.

To view and edit one of the alert definitions:

Procedure

- 1 Click on the **Administration** tab and select **Monitoring Defaults**.
The Monitoring Defaults page displays key information about the alert.
- 2 Scroll down to the Spring Insight Application resource type and click **Edit Alerts**.
- 3 From the Spring Insight Application services page you can:
 - a Disable an alert definition by placing a checkmark next to it, and toggling the **Set Active** control from "Yes" to "No".
 - b Create a new alert definition for the Spring Insight Application resource type, by clicking **New**.
 - c View or edit an alert definition, by clicking its name in the **Alert Definition** column.

Spring Insight Resource Types and Management Functions

This section describes the management functions the Spring Insight plugin performs.

Spring Insight Auto-Discovery

This section explains the auto-discovery process for Spring Insight.

The Spring Insight plugin performs a Sigar process query to discover a local Insight Dashboard process, and creates a server of type "Spring Insight".

Once the "Spring Insight" resource is imported to inventory, the plugin creates a service of type "Spring Insight Application" for each application reporting to the dashboard.

- [Spring Insight Auto-Discovery Spring Insight](#) on page 329
This section details the properties of server type "Spring Insight".
- [Spring Insight Auto-Discovery Spring Insight Application](#) on page 329
This section details the properties of server type "Spring Insight Application".

Spring Insight Auto-Discovery Spring Insight

This section details the properties of server type "Spring Insight".

Table 8-2. Spring Insight Server Properties

Property	Description
resource name	The plugin forms the Hyperic name for a Spring Insight Dashboard by concatenating: parent platforms FQDN, a space, and the string "Spring Insight Dashboard".
Description	N/A
Instance Port	N/A

Spring Insight Auto-Discovery Spring Insight Application

This section details the properties of server type "Spring Insight Application".

Table 8-3. Application Properties

Property	Description
resource name	The plugin forms the Hyperic name for a Spring Insight Dashboard Application by concatenating: parents resource name, a space, "application name", and the string "Application".
Description	The plugin forms the description.
Owner	The Hyperic user account under which the resource was created.

Spring Insight Metric Collection

These sections define the metrics for each Spring Insight resource type.

- [Spring Insight Dashboard Metrics](#) on page 330
This topic details the Spring Insight Dashboard Metrics metrics.
- [Spring Insight Application Metrics](#) on page 330
This topic details the Spring Insight Application Metrics metrics.
- [Spring Insight Application Server Metrics](#) on page 330
This section explains which metrics can be charted that you collect for tcServer Runtime on the Spring Insight Applications view.
- [Spring Insight Database Metrics](#) on page 331
This section explains which metrics you collect for the database can be presented in the Spring Insight Applications view.
- [Spring Insight Platform Metrics](#) on page 331
This section explains which metrics can be charted that you collect for the platform where the application server runs on the Spring Insight Applications view.

Spring Insight Dashboard Metrics

This topic details the Spring Insight Dashboard Metrics metrics.

Table 8-4. Spring Insight Dashboard Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min

Spring Insight Application Metrics

This topic details the Spring Insight Application Metrics metrics.

Table 8-5. Spring Insight Application Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Health	Health[rangeLabel=Last 5 minutes].score	percentage	PERFORMANCE	true	5 min
Total Invocation Count	MetricDataSummaries[metric=invocationCount,label=Last 5 minutes].value	none	UTILIZATION	true	5 min
Frustrated Invocation Count	MetricDataSummaries[metric=tag.frustrated,label=Last 5 minutes].value	none	UTILIZATION	true	5 min
Satisfied Invocation Count	MetricDataSummaries[metric=tag.satisfied,label=Last 5 minutes].value	none	UTILIZATION	true	5 min
Tolerated Invocation Count	MetricDataSummaries[metric=tag.tolerated,label=Last 5 minutes].value	none	UTILIZATION	true	5 min
Error Rate	MetricDataSummaries[metric=errorCount/invokeionCount,label=Last 5 minutes].value	percentage	PERFORMANCE	true	5 min

Spring Insight Application Server Metrics

This section explains which metrics can be charted that you collect for tcServer Runtime on the Spring Insight Applications view.

You can chart any metric you collect for tcServer Runtime on the Spring Insight Applications view.

Spring Insight Database Metrics

This section explains which metrics you collect for the database can be presented in the Spring Insight Applications view.

If your application accesses a database server that is managed by a vCenter Hyperic agent, any of the metrics you collect for the database can be presented in the Spring Insight Applications view.

Spring Insight Platform Metrics

This section explains which metrics can be charted that you collect for the platform where the application server runs on the Spring Insight Applications view.

You can chart any metric you collect for the platform where the application server runs on the Spring Insight Applications view.

Spring Insight Pre-Configured Alert Definitions

This section details the pre-configured alert definitions for Spring Insight Application resources.

The Spring Insight plugin provides two pre-configured alert definitions for Spring Insight Application resources. The built-in alert definitions specify resource type alerts - alerts that are assigned at the resource type level, rather than to individual resource instances.

- [Spring Insight Application Health Alert](#) on page 331
This section details the properties for the Application Health Alert.
- [Spring Insight Application Error Alert](#) on page 331
This section details the properties for the Application Error Alert.

Spring Insight Application Health Alert

This section details the properties for the Application Health Alert.

The properties for this alert are:

- Name - Application health is degrading.
- Description - Application error rate for the last 5 minutes is high.
- If Condition - Health < 85.0%.
- Enable Action(s) - Each time conditions are met. Generate one alert and then disable alert definition until fixed.

Spring Insight Application Error Alert

This section details the properties for the Application Error Alert.

The properties for this alert are:

- Name - Application error rate is high.
- Description - Application error rate for the last 5 minutes is high.
- If Condition - Error Rate > 10.0%.
- Enable Action(s) - Each time conditions are met. Generate one alert and then disable alert definition until fixed.

Spring Insight Applications View

This section explains the Spring Insight applications view.

The Spring Insight Application page is available on the Resources tab if you have Insight Operations components under Hyperic management. This view presents health metrics for an Insight application along with metrics for related resources (for example, the application server where the application runs, the machine that hosts the application server, or a database that the application reads and updates) over the same timeframe.

When the "Insight Application View" indicates an application performance issue, you can investigate by jumping from the Hyperic user interface into the Insight Dashboard application, into the same application context as the problem occurred.

Local Platform Services

This section provides general instructions for creating a service in vCenter Hyperic.

There are two types of platform services in vCenter Hyperic:

- System services local to an operating system platform, such as CPUs, network interfaces, filesystems, and so on. Most local service are auto-discovered by the system plugin.
- Remote services that the vCenter Hyperic agent monitors over the network, such as HTTP, FTP, DNS, and other services using a supported protocol. Because such services are monitored by a remote agent, they cannot be auto-discovered. For network services, you manually configure platform service on the platform running the vCenter Hyperic agent that will monitor the service.
- [Create a Platform Service](#) on page 333
This topic explains how to create a platform service.
- [Configuration Instructions for Platform Services](#) on page 334
This topic details all of the supported platform types in vCenter Hyperic.
- [Event Tracking](#) on page 336
This topic explains how to enable event tracking.

Create a Platform Service

This topic explains how to create a platform service.

Procedure

- 1 Use **Browse > Resources > Platforms** to navigate to the platform to which you wish to add a service.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 On the New Platform Service page enter the following:
 - a Name - A meaningful name for the service.
 - b Description - (optional) A description of the service.
 - c Service Type - Select the desired service type from the pull-down list.
- 4 After entering the Name, Description, and Service Type, click **OK** to create the new service.
The Inventory tab for the new service appears.
- 5 In the prompt, click **Configuration Properties**.

- 6 On the Configuration Properties page, enter values for the required configuration properties, which are prefixed with a red asterisk, and optional properties as appropriate. For information about the configuration properties for a service type, click the link in the Configuration Notes column for it in the [“Configuration Instructions for Platform Services,”](#) on page 334 table.

Configuration Instructions for Platform Services

This topic details all of the supported platform types in vCenter Hyperic.

The table below lists all supported platform service types in Hyperic. The Configuration Notes column for a network service or another platform service type that require configuration has a link to a configuration properties reference for the service type. No configuration instructions are provided for auto-discovered platform services.

Table 9-1. Configuration Instructions for Platform Services

Service	Description	Configuration Notes
CPU	The Hyperic Agent on a platform automatically discovers CPUs on the platform.	It is not necessary to manually configure CPU monitoring. For information about metrics available for a CPU, see Chapter 17, “CPU Service,” on page 355.
DHCP	Use to monitor a remote Dynamic Host Configuration Protocol server.	See “Configure the DHCP Service,” on page 282.
DNS	Use to monitor a remote Domain Name System server.	See “Configure a DNS Service in vCenter Hyperic,” on page 285.
FileServer Directory	Use to monitor a directory.	See Chapter 10, “FileServer Directory Service,” on page 337.
FileServer File	Use to monitor a file.	See Chapter 12, “FileServer File Service,” on page 341.
FileServer Mount	Use to monitor a filesystem mount point and associated disks and raid arrays. NOTE The Hyperic agent auto-discovers local mount points. You only need to explicitly configure a FileServer Mount service to monitor a remote network file system (NFS). Alternatively, you can install a Hyperic agent on the system that hosts the NFS, in which case the NFS will be auto-discovered.	See Chapter 13, “FileServer Mount Service,” on page 343.
FileServer Directory Tree	Use to monitor a directory and the entire tree under that directory.	See Chapter 11, “FileServer Directory Tree Service,” on page 339.
HTTP	Use to monitor a particular URL.	See “Configure the HTTP Service,” on page 291.
FTP	Use to monitor a remote File Transfer Protocol server.	See “Configure the FTP Service,” on page 289.
IMAP	Use to monitor a remote Internet Message Access Protocol server.	See “Configure the IMAP Service,” on page 297.
InetAddress Ping	Use to ping a remote host for availability.	See “Configure the InetAddress Ping Service,” on page 299.
LDAP	Use to monitor a remote Lightweight Directory Access Server.	See “Configure the LDAP Service,” on page 301.

Table 9-1. Configuration Instructions for Platform Services (Continued)

Service	Description	Configuration Notes
Multiprocess	Use to monitor multiple related processes. For example, to monitor the number of httpd processes running on Apache and the system resource they consume in aggregate.	See Chapter 14, “Multiprocess Service,” on page 345.
NetworkServer Interface	Use to monitor a network interface. NOTE Because the Hyperic agent auto-discovers network interfaces, manual configuration of a NetworkServer Interface is rare.	See Chapter 18, “NetworkService Interface Service,” on page 357.
NTP	Use to monitor a remote Network Time Protocol server.	See “Configure the NTP Service,” on page 306.
POP3	Use to monitor a remote Post Office Protocol 3 server. Configure along with an SMTP service to monitor incoming and outgoing email services.	See “Configure the POP3 Service,” on page 308.
Process	Use to monitor a process using a Hyperic SIGAR Process Table Query Language (PTQL) query. To configure, you supply the PTQL query in the form: Class.Attribute.operator=value For example: Pid.PidFile.eq=/var/run/sshd.pid	See Chapter 15, “Process Service,” on page 349.
RPC	Use to monitor a Remote Procedure Call service. NOTE Not available on Windows platforms.	See “Configure the RPC Service,” on page 311.
Script	Used to configure Hyperic to periodically run a script that collects a system or application metric.	See Chapter 16, “Script Service,” on page 353.
SMTP	Use to monitor a remote Simple Mail Transfer Protocol server. Configure along with a POP3 service to monitor incoming and outgoing email services.	See “Configure the SMTP Service,” on page 313.
SNMP	Use to monitor a remote Simple Network Management Protocol agent.	See “Configure the SNMP Service,” on page 315.
SSH	Use to monitor a remote SSH service.	See “Configure the SSH Service,” on page 319.

Table 9-1. Configuration Instructions for Platform Services (Continued)

Service	Description	Configuration Notes
TCP Socket	Use to monitor the availability of a remote TCP socket	See “Configure the TCP Socket Service,” on page 321.
Windows Service	Use to monitor an application that runs as a service under Windows.	<p>To configure it, you supply its Service Name in Windows. To determine the Service Name:</p> <ol style="list-style-type: none"> 1 Click the Windows start menu and select Run. 2 Type services.msc in the run dialog and click Ok. 3 In the list of services displayed, right-click the service you wish to monitor and select Properties. 4 Locate the Service Name on the General tab. See Chapter 19, “Windows Service,” on page 359.

Event Tracking

This topic explains how to enable event tracking.

You can enable log tracking for a FileServer Directory service. If you do, the agent will log an event for responses that match the criteria you specify.

Procedure

- 1 From the Configuration Properties page click the **Monitoring** section.
- 2 Click the **Enable Log Tracking** box.

FileServer Directory Service

This section explains how to create and configure a FileServer Directory service.

A directory in a file system is represented by a platform service of type FileServer Directory. Although a vCenter Hyperic agent automatically discovers file systems on a platform, to monitor a particular directory, you must configure it manually.

- [Create FileServer Directory Service](#) on page 337
This topic explains how to create a FileServer Directory service.
- [FileServer Directory Service Configuration Options](#) on page 337
This topic details all of the FileServer Directory Service configuration options
- [FileServer Directory Service Metrics](#) on page 338
This topic details the FileServer Directory Service metrics.

Create FileServer Directory Service

This topic explains how to create a FileServer Directory service.

To create a FileServer Directory service:

Procedure

- 1 Navigate to the platform where the directory exists.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 Name the service.
- 4 From the **Service Type** pull-down, select **FileServer Directory**.
- 5 Click **Edit** in the Configuration Properties section of the new service's Inventory page.
- 6 On the Configuration Properties page, supply at least the required properties, described in the table below.

FileServer Directory Service Configuration Options

This topic details all of the FileServer Directory Service configuration options

Table 10-1. FileServer Directory Service Configuration Options

Name	Description	Required	Example	Notes
path	Path to the directory	Yes	/Users/myfiles	Hyperic will check that the path exists.

FileServer Directory Service Metrics

This topic details the FileServer Directory Service metrics.

Each instance of a FileServer Directory service provides the following metrics:

Table 10-2. FileServer Directory Service Metrics

Name	Alias	Units	Category	Default On	Default Interval
Last Modified Time	LastModified	epoch-millis	UTILIZATION	false	30 min
Last Change Time	LastChange	epoch-millis	UTILIZATION	false	30 min
Last Access Time	LastAccess	epoch-millis	UTILIZATION	false	30 min
Permissions	Permissions	none	UTILIZATION	false	30 min
Owner User Id	Uid	none	UTILIZATION	false	30 min
Owner Group Id	Gid	none	UTILIZATION	false	30 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Regular Files	Files	none	UTILIZATION	true	5 min
Subdirectories	Subdirs	none	UTILIZATION	true	5 min
Symbolic Links	Symlinks	none	UTILIZATION	false	5 min
Character Devices	Chrdevs	none	UTILIZATION	false	5 min
Block Devices	Blkdevs	none	UTILIZATION	false	5 min
Sockets	Sockets	none	UTILIZATION	false	5 min
Total	Total	none	UTILIZATION	true	5 min
Disk Usage	DiskUsage	B	UTILIZATION	false	5 min

FileServer Directory Tree Service

This section provides instructions for creating and configuring a FileServer Directory Tree service in vCenter Hyperic.

In vCenter Hyperic, a directory tree in a file system is represented by a platform service of type "FileServer Directory Tree". Although a vCenter Hyperic agent automatically discovers filesystems on a platform, to monitor a particular directory tree, you must configure it manually.

- [Create FileServer Directory Tree Service](#) on page 339
This topic explains how to create a FileServer Directory Tree service.
- [FileServer Directory Tree Service Configuration Options](#) on page 339
This topic details the FileServer Directory Tree Service configuration options
- [FileServer Directory Tree Metrics](#) on page 340
This topic details the FileServer Directory Tree metrics.

Create FileServer Directory Tree Service

This topic explains how to create a FileServer Directory Tree service.

Procedure

- 1 Navigate to the platform where the directory tree exists.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 Name the service.
- 4 From the **Service Type** pull-down, select **FileServerDirectory**.
- 5 Click **Edit** in the "Configuration Properties" section of the new service's Inventory page.
- 6 On the Configuration Properties page, supply at least the required properties, described in the table below.

FileServer Directory Tree Service Configuration Options

This topic details the FileServer Directory Tree Service configuration options

Table 11-1. FileServer Directory Tree Service Configuration Options

Name	Description	Required	Example	Notes
path	Path to the directory	yes	/Users/myfiles	Must be a valid, existing path.

FileServer Directory Tree Metrics

This topic details the FileServer Directory Tree metrics.

Each instance of a FileServer Directory Tree service provides the following metrics:

Table 11-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Regular Files	Files	none	UTILIZATION	true	5 min
Subdirectories	Subdirs	none	UTILIZATION	true	5 min
Symbolic Links	Symlinks	none	UTILIZATION	false	5 min
Character Devices	Chrdevs	none	UTILIZATION	false	5 min
Block Devices	Blkdevs	none	UTILIZATION	false	5 min
Sockets	Sockets	none	UTILIZATION	false	5 min
Total	Total	none	UTILIZATION	true	5 min
Disk Usage	DiskUsage	B	UTILIZATION	false	5 min

FileServer File Service

This section provides instructions for creating and configuring a FileServer File service in vCenter Hyperic.

In vCenter Hyperic, a file in a file system is represented by a platform service of type "FileServer File". Although a vCenter Hyperic agent automatically discovers filesystems on a platform, to monitor a particular directory tree, you must configure it manually.

- [Create FileServer File Service](#) on page 341
This topic explains how to create a FileServer File service.
- [FileServer File Service Configuration Options](#) on page 341
This topic details the FileServer File Service configuration options.
- [FileServer File Service Metrics](#) on page 342
This topic details the FileServer File Service metrics.

Create FileServer File Service

This topic explains how to create a FileServer File service.

Procedure

- 1 Navigate to the platform where the file exists.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 Name the service.
- 4 From the **Service Type** pull-down, select **FileServerFile**.
- 5 Click **Edit** in the "Configuration Properties" section of the new service's Inventory page.
- 6 On the Configuration Properties page, supply at least the required properties, described in the table below.

FileServer File Service Configuration Options

This topic details the FileServer File Service configuration options.

Table 12-1. FileServer File Service Configuration Options

Name	Description	Required	Example	Notes
path	Path to the directory	yes	/Users/myfiles	Hyperic will check that the path exists.

FileServer File Service Metrics

This topic details the FileServer File Service metrics.

Each instance of a FileServer File service provides the following metrics:

Table 12-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Last Modified Time	LastModified	epoch-millis	UTILIZATION	false	30 min
Last Change Time	LastChange	epoch-millis	UTILIZATION	false	30 min
Last Access Time	LastAccess	epoch-millis	UTILIZATION	false	30 min
Permissions	Permissions	none	UTILIZATION	false	30 min
Owner User Id	Uid	none	UTILIZATION	false	30 min
Owner Group Id	Gid	none	UTILIZATION	false	30 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Size	Size	B	UTILIZATION	true	5 min

FileServer Mount Service

This section provides instructions for creating and configuring a FileServer Mount service in vCenter Hyperic.

In vCenter Hyperic, a file system is represented by a platform service of type "FileServer Mount". Typically, the vCenter Hyperic agent automatically discovers file systems on a platform. If the agent does not discover the file system on a platform, you can manually configure it.

- [Create FileServer Mount Service](#) on page 343
This topic explains how to create a FileServer Mount service.
- [FileServer Mount Service Configuration Options](#) on page 343
This topic details the FileServer Mount Service configuration options.
- [FileServer Mount Service Metrics](#) on page 344
This topic details the FileServer Mount Service metrics.

Create FileServer Mount Service

This topic explains how to create a FileServer Mount service.

Procedure

- 1 Navigate to the platform where the file exists.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 Name the service.
- 4 From the **Service Type** pull-down, select **FileServerMount**.
- 5 Click **Edit** in the "Configuration Properties" section of the new service's Inventory page.
- 6 On the Configuration Properties page, supply at least the required properties, described in the table below.

FileServer Mount Service Configuration Options

This topic details the FileServer Mount Service configuration options.

Table 13-1. FileServer Mount Service Configuration Options

Name	Description	Required	Example	Notes
path	Path to the directory	yes	/Users/myfiles	Hyperic will verify that the path exists.

FileServer Mount Service Metrics

This topic details the FileServer Mount Service metrics.

Each instance of a FileServer Mount service provides the following metrics:

Table 13-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Use Percent	UsePercent	percentage	UTILIZATION	true	5 min
Total Bytes Used	TotFsUsed	KB	UTILIZATION	false	5 min
Capacity	Capacity	KB	UTILIZATION	false	30 min
Total Bytes Free	TotFsFree	KB	UTILIZATION	true	5 min
Total Bytes Avail	TotFsAvail	KB	UTILIZATION	false	5 min
Disk Reads	DiskReads	none	THROUGHPUT	false	10 min
Disk Reads per Minute	DiskReads1m	none	THROUGHPUT	true	10 min
Disk Writes	DiskWrites	none	THROUGHPUT	false	10 min
Disk Writes per Minute	DiskWrites1m	none	THROUGHPUT	true	10 min
Disk Read Bytes	DiskReadBytes	B	THROUGHPUT	false	10 min
Disk Read Bytes per Minute	DiskReadBytes1m	B	THROUGHPUT	false	10 min
Disk Write Bytes	DiskWriteBytes	B	THROUGHPUT	false	10 min
Disk Write Bytes per Minute	DiskWriteBytes1m	B	THROUGHPUT	false	10 min
Disk Queue	DiskQueue	none	THROUGHPUT	false	5 min
Disk Service Time	DiskServiceTime	ms	UTILIZATION	false	5 min
Free Files	FreeFiles	none	UTILIZATION	false	5 min
Total Files	Files	none	UTILIZATION	false	5 min

Multiprocess Service

This section explains how to configure vCenter Hyperic to monitor a set of processes.

- [Create a Multiprocess Service](#) on page 345
This topic explains how to create a multiprocess service.
- [Multiprocess Service Configuration Options](#) on page 346
This topic details the Multiprocess Service configuration options.
- [Multiprocess Service Metrics](#) on page 346
This topic details the Multiprocess Service metrics.
- [Specifying Multiprocess Queries](#) on page 346
This topic explains how to specify query statements that identify the processes you wish to monitor.

Create a Multiprocess Service

This topic explains how to create a multiprocess service.

Procedure

- 1 Navigate to the platform where the process runs.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 Name the service.
- 4 From the **Service Type** pull-down, select **Multiprocess**.
- 5 Click **Edit** in the "Configuration Properties" section of the new service's Inventory page.
- 6 On the Configuration Properties page, supply at least the required properties, described in the table below.

Multiprocess Service Configuration Options

This topic details the Multiprocess Service configuration options.

Table 14-1. Multiprocess Service Configuration Options

Name	Description	Required	Example	Notes
process.query	A PTQL statement, which contains one or more PTQL queries, that identifies the processes to monitor.	Yes	N/A	N/A

Multiprocess Service Metrics

This topic details the Multiprocess Service metrics.

Each instance of a Multiprocess service provides the following metrics:

Table 14-2. Multiprocess Service Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Processes	NumProcesses	none	UTILIZATION	true	10 min
Memory Size	MemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	true	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	10 min
Cpu Usage	Usage	percentage	UTILIZATION	true	5 min

Specifying Multiprocess Queries

This topic explains how to specify query statements that identify the processes you wish to monitor.

You specify a query statement that identifies the processes you wish to monitor. You specify queries using Process Table Query Language (PTQL), a simple query language for finding processes based on their attributes.

PTQL queries take this form: Class.Attribute.operator=value

where:

- Class - is the name of the Sigar class minus the Proc prefix.
- Attribute - is an attribute of the given Class, index into an array or key in a Map class.

- Operator - is one of the following (for String values):
 - eq - Equal to value.
 - ne - Not equal to value.
 - ew - Ends with value.
 - sw - Starts with value.
 - ct - Contains value (substring).
 - re - Regular expression value matches.

Delimit queries with a comma.

For example, this query statement finds a JBoss instance by looking for a process whose name is "org.jboss.Main":

```
State.Name.eq=java,Args.*.eq=org.jboss.Main
```

this query statement finds the OpenSSH daemon by looking for sshd PID file.

```
Pid.PidFile.eq=/var/run/sshd.pid
```


Process Service

This section explains how to configure vCenter Hyperic to monitor a process.

- [Specifying Process Queries](#) on page 349
This section explains how to specify a query statement that identifies the process you wish to monitor.
- [Create a Process Service](#) on page 350
This topic explains how to create a Process service.
- [Process Service Configuration Options](#) on page 350
This topic details the Process Service configuration options.
- [Process Service Metrics](#) on page 350
This topic details the Process Service metrics.
- [Process Controls](#) on page 351
This topic lists the supported control actions.

Specifying Process Queries

This section explains how to specify a query statement that identifies the process you wish to monitor.

You specify a query statement that identifies the process you wish to monitor. You specify queries using Process Table Query Language (PTQL), a simple query language for finding processes based on their attributes.

PTQL queries take this form: `Class.Attribute.operator=value`

where:

- **Class** - is the name of the Sigar class minus the Proc prefix.
- **Attribute** - is an attribute of the given Class, index into an array or key in a Map class.
- **Operator** - is one of the following (for String values):
 - **eq** - Equal to value.
 - **ne** - Not equal to value.
 - **ew** - Ends with value.
 - **sw** - Starts with value.
 - **ct** - Contains value (substring).
 - **re** - Regular expression value matches.

Delimit queries with a comma.

For example, this query statement finds a JBoss instance by looking for a process whose name is "org.jboss.Main":

```
State.Name.eq=java,Args.*.eq=org.jboss.Main
```

this query statement finds the OpenSSH daemon by looking for sshd PID file.

```
Pid.PidFile.eq=/var/run/sshd.pid
```

Create a Process Service

This topic explains how to create a Process service.

Procedure

1. Navigate to the platform where the process runs.
2. From the **Tools** menu, select **New Platform Service**.
3. Name the service.
4. From the **Service Type** pull-down, select **Process**.
5. Click **Edit** in the "Configuration Properties" section of the new service's Inventory page.
6. On the Configuration Properties page, supply at least the required properties, described in the table below.

Process Service Configuration Options

This topic details the Process Service configuration options.

Table 15-1. Process Service Configuration Options

Name	Description	Required	Example	Notes
process.query	A PTQL statement, which contains one or more PTQL queries, that identifies the process to monitor.	Yes	N/A	N/A

Process Service Metrics

This topic details the Process Service metrics.

Each instance of a Process service provides the following metrics:

Table 15-2. Process Service Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Virtual Memory Size	VirtualMemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	true	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min

Table 15-2. Process Service Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	10 min
Cpu Usage	Usage	percentage	UTILIZATION	true	5 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Open File Descriptors	OpenFd	none	UTILIZATION	false	5 min
Threads	Threads	none	UTILIZATION	false	5 min
Child Processes	ChildProcesses	none	UTILIZATION	false	5 min

Process Controls

This topic lists the supported control actions.

Supported Control Actions:

- kill
- SIGHUP
- SIGINT
- SIGQUIT
- SIGKILL
- SIGTERM
- SIGUSR1
- SIGUSR2

Script Service

This section explains how to configure vCenter Hyperic to run a custom measurement script on a scheduled basis and save metrics in the vCenter Hyperic database along with plugin-reported metrics.

You can configure vCenter Hyperic to run a custom measurement script on a scheduled basis and save metrics in the vCenter Hyperic database along with plugin-reported metrics. To integrate a custom script, you create a platform service of type "Script", and define the script location and any arguments on the Configuration Properties page for the service. If your script returns results, the first value in the result stream is reported as a "Result Value" metric.

>About Custom Script Plugins

If you wish to run scripts in vCenter Hyperic that provide richer monitoring than available from a configured script service, you can build a custom script plugin that reports as many metrics as you like. A script plugin includes an XML descriptor and at least one script, which can be defined externally or embedded in the XML file. The plugin can use multiple scripts or a single script; the script must output key=output pairs.

Unicode characters must be escaped

Unicode characters encountered in a script will be decoded during script processing. For example, the string "%3D" is decoded to an equals sign (=). To preserve the value of a string that might be interpreted as a Unicode character, escape the string with a double backslash, for example: \\%3D

This chapter includes the following topics:

- [“Create a Script Service,”](#) on page 353
- [“Script Service Configuration Options,”](#) on page 354
- [“Script Service Metrics,”](#) on page 354

Create a Script Service

This topic explains how to create a Script Service.

Procedure

- 1 Navigate to the platform where the process runs.
- 2 From the **Tools** menu, select **New Platform Service**.
- 3 Name the service.
- 4 From the **Service Type** pull-down, select **Script**.
- 5 Click **Edit** in the "Configuration Properties" section of the new service's Inventory page.

- 6 On the Configuration Properties page, supply at least the required properties, described in the table below.

Script Service Configuration Options

This topic details the Script Service configuration options.

Table 16-1. Script Service Configuration Options

Name	Description	Required	Example	Notes
prefix	Space delimited prefix argument(s)	No	sudo	N/A
path	Path to the script or program	Yes	/usr/local/nagios/libexec/check_http	Hyperic will check that the path exists
arguments	Space delimited script arguments	No	-H 209.237.227.36	Use quotes for arguments with spaces
timeout	Timeout in seconds	Yes	120	Execution is aborted if > timeout

Script Service Metrics

This topic details the Script Service metrics.

Each instance of a Script service provides the following metrics:

- Availability - Uses process exit code:
 - 0 = OK
 - 1 = Warning
 - 2 = Critical
 - 3 = Unknown
 - 4 = Paused
- Execution Time - Milliseconds it took to execute the script.
- Result Value - - If the script returns results, the first result in the output stream, for example: "Number of Transactions: 234"

CPU Service

This section explains the CPU service.

In vCenter Hyperic, a CPU is represented by a platform service of type "CPU". The vCenter Hyperic agent automatically discovers CPUs on a platform.

CPU Service Metrics

This topic details the CPU Service metrics.

Table 17-1. CPU Service Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cpu Idle	CpuIdle	percentage	UTILIZATION	false	5 min
Cpu Idle Time	CpuIdleSec	ms	UTILIZATION	false	10 min
Cpu Usage	CpuUsage	percentage	UTILIZATION	true	5 min
Cpu Wait Time	CpuUsage	percentage	UTILIZATION	false	10 min
System Cpu	CpuSys	percentage	UTILIZATION	true	
System Cpu Time	CpuSysSec	ms	UTILIZATION	false	10 min
User Cpu	CpuUser	percentage	UTILIZATION	true	5 min
User Cpu Time	CpuUserSec	ms	UTILIZATION	false	10 min

NetworkService Interface Service

This topic explains the NetworkService Interface service.

In vCenter Hyperic, network interfaces are represented by a platform service of type "NetworkServer Interface". The vCenter Hyperic agent automatically discovers network interfaces on a platform.

NetworkServer Interface Service Metrics

This topic details the NetworkServer Interface Service metrics.

Each instance of a NetworkServer Interface service provides the following metrics:

Table 18-1. NetworkServer Interface Service Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Bits Received	BitsIn	bytesToBits	THROUGHPUT	false	10 min
Bits Received Per Second	BitsIn	bytesToBits	THROUGHPUT	true	10 min
Bits Transmitted	BitsOut	bytesToBits	THROUGHPUT	false	10 min
Bits Transmitted Per Second	BitsOut	bytesToBits	THROUGHPUT	true	10 min
Bytes Received	BytesIn	B	THROUGHPUT	false	10 min
Bytes Received Per Minute	BytesIn	B	THROUGHPUT	false	10 min
Bytes Transmitted	BytesOut	B	THROUGHPUT	false	10 min
Bytes Transmitted Per Minute	BytesOut	B	THROUGHPUT	false	10 min
Packets Received	PacketsIn	none	UTILIZATION	false	10 min
Packets Received Per Minute	PacketsIn	none	UTILIZATION	true	10 min
Packets Transmitted	PacketsOut	none	UTILIZATION	false	10 min
Packets Transmitted Per Minute	PacketsOut	none	UTILIZATION	true	10 min
Receive Errors	RxErrors	none	UTILIZATION	false	10 min
Receive Errors Per Minute	RxErrors	none	UTILIZATION	false	10 min

Table 18-1. NetworkServer Interface Service Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Receive Packets Dropped	RxDropped	none	UTILIZATION	false	10 min
Receive Packets Dropped Per Minute	RxDropped	none	UTILIZATION	false	10 min
Transmit Collisions	TxCollisions	none	UTILIZATION	false	10 min
Transmit Collisions Per Minute	TxCollisions	none	UTILIZATION	false	10 min
Transmit Errors	TxErrors	none	UTILIZATION	false	10 min
Transmit Errors Per Minute	TxErrors	none	UTILIZATION	false	10 min
Transmit Packets Dropped	TxDropped	none	UTILIZATION	false	10 min
Transmit Packets Dropped Per Minute	TxDropped	none	UTILIZATION	false	10 min

Windows Service

This section explains how to configure a platform service of type "Windows Service" on a Windows platform.

vCenter Hyperic can monitor a windows service. You configure a platform service of type "Windows Service" on a Windows platform.

- [Windows Service Plugin Function](#) on page 359
This topic explains the functions performed by the Windows service plugin.
- [Configure the Windows Service](#) on page 359
These steps will allow you to configure the "Windows Service" service. The "Windows Service" service type must be manually configured.
- [Windows Service Metrics](#) on page 360
This topic details the Windows Service metrics.
- [Define Windows Service Monitoring Defaults](#) on page 360
This topic explains how to define monitoring defaults for a Windows service.

Windows Service Plugin Function

This topic explains the functions performed by the Windows service plugin.

The Windows Service service type is managed by the system plugin.

Configure the Windows Service

These steps will allow you to configure the "Windows Service" service. The "Windows Service" service type must be manually configured.

Procedure

- 1 If you know the name of the Windows Service, proceed to step 2. Otherwise:
 - a From the Windows **Start** menu, select **Run**.
 - b Type **services.msc** in the **Run** dialog and click **OK**.
- 2 In the list of services displayed, right-click the service you wish to monitor and select **Properties**.
- 3 Locate the Service Name on the General tab.
- 4 In the Hyperic user interface, navigate to the Windows platform where the service runs.
- 5 From the **Tools** menu, select **New Platform Service**.

- 6 On New Service page, enter a name for the service and select "**Windows Service**" from the **Service Type** pull-down.
- 7 Supply all required values on the Configuration Properties page.

Windows Service Metrics

This topic details the Windows Service metrics.

Table 19-1. Windows Service Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Start Type	StartType	None		false	30 min
Memory Size	MemSize	B	UTILIZATION		5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION		5 min
Cpu System Time	SystemTime		UTILIZATION		10 min
Cpu User Time	UserTime	ms	UTILIZATION		10 min
Cpu Total Time	TotalTime	ms	UTILIZATION		10 min
Cpu Usage	Usage	ms	UTILIZATION	true	5 min
Start Time	StartTime	epoch-millis	UTILIZATION		30 min
Open Handles	OpenHandles		UTILIZATION		
Threads		none	UTILIZATION		

Define Windows Service Monitoring Defaults

This topic explains how to define monitoring defaults for a Windows service.

You can enable and disable metrics, select indicator metrics, and change the collection interval for a resource type on its Monitoring Defaults page. To navigate to a resource type's Monitoring Defaults page:

Procedure

- 1 Click the **Administration** tab and select **Monitoring Defaults**.
- 2 Scroll down to the resource type and click **Edit Metric Template**.

This section has instructions for configuring a Sun JVM for monitoring.

- [Step 1 - Configure JVM for JMX Monitoring](#) on page 361
This topic provides instructions for configuring JVM for JMX monitoring.
- [Step 2 - Add JVM to Inventory](#) on page 361
This topic provides instruction about how to add the JVM to vCenter Hypericinventory:
- [Step 3 - Configure JVM for Monitoring](#) on page 362
This topic provides instructions for configuring the JVM for monitoring.
- [Sun JVM Events](#) on page 362
This topic provides information about events specific to Sun JVM.
- [VmDisconnectedEvent](#) on page 394
This topic provides information about events specific to the VmDisconnectedEvent.
- [VmFailedToShutdownGuestEvent](#) on page 396
This topic provides information about events related to the VmFailedToShutdownGuestEvent
- [AccountCreatedEvent](#) on page 405
This topic provides information about events surrounding the AccountCreatedEvent.
- [VmInstanceUuidChangedEvent](#) on page 440
This section provides information about the VmInstanceUuidChangedEvent, as well as other events.

Step 1 - Configure JVM for JMX Monitoring

This topic provides instructions for configuring JVM for JMX monitoring.

Procedure

- ◆ Explicitly enable JMX monitoring of your JVM.

Step 2 - Add JVM to Inventory

This topic provides instruction about how to add the JVM to vCenter Hypericinventory:

Procedure

- 1 Navigate to the platform where the JVM runs using **Resources > Browse**.

- 2 On the **Tools** menu, click **New Server**.
- 3 On the New Server page, enter information in the following fields:
 - Name
 - Description
 - Server Type - Select "Sun JVM 1.5" for the server type list.
 - Install Path - Enter your `$JAVA_HOME` directory.
- 4 Click **OK**.

Step 3 - Configure JVM for Monitoring

This topic provides instructions for configuring the JVM for monitoring.

Procedure

- 1 Click **Edit** in the Configuration Properties section of Inventory page for the JVM.
- 2 On the Edit Configuration Properties Page:
 - a For `jmx.url`, verify that the value is correct.
 - b In the `jmx.username` field, enter if you configured authentication for JMX monitoring access.
 - c In the `jmx.password` field, enter if you configured authentication for JMX monitoring access.
 - d Configure log and configuration tracking, as desired.
 - e Leave the box for Auto-Discover Garbage Collectors and Memory Pools? selected.
- 3 Click **OK**.

After a moment or so, vCenter HypericServer will start receiving the default metrics for the JVM.

Sun JVM Events

This topic provides information about events specific to Sun JVM.

Table 20-1. Sun JVM Events

Name	Description	Available from	vCenter Reference
AccountCreatedEvent	This event records that an account was created on a host.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AccountCreatedEvent.html
AccountRemovedEvent	This event records that an account was removed from a host.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AccountRemovedEvent.html
AccountUpdatedEvent	This event records that an account was updated on a host.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AccountUpdatedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
AdminPasswordNotChangedEvent	Default password for the Admin user on the host has not been changed.	Since VI API 2.5.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AdminPasswordNotChangedEvent.html
AlarmActionTriggeredEvent	This event records that an alarm was triggered.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmActionTriggeredEvent.html
AlarmCreatedEvent	This event records the creation of an alarm.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmCreatedEvent.html
AlarmEmailCompletedEvent	This event records the completion of an alarm email notification.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmEmailCompletedEvent.html
AlarmEmailFailedEvent	This event records a failure to complete an alarm email notification.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmEmailFailedEvent.html
AlarmReconfiguredEvent	This event records the reconfiguration of an alarm.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmReconfiguredEvent.html
AlarmRemovedEvent	This event records the removal of an alarm.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmRemovedEvent.html
AlarmScriptCompleteEvent	This event records the completion of an alarm-triggered script.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmScriptCompleteEvent.html
AlarmScriptFailedEvent	This event records a failure to complete an alarm-triggered script.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmScriptFailedEvent.html
AlarmSnmpCompletedEvent	This event records the completion of an alarm SNMP notification.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmSnmpCompletedEvent.html
AlarmSnmpFailedEvent	This event records a failure to complete an alarm SNMP notification.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmSnmpFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
AlarmStatusChangedevent	This event records that an entity (such as a host or VM) has changed its overall status because an alarm was triggered. The event will show which entity and will indicate which alarm was triggered. A host's or VM's alarm status changing from "green"/ "yellow"/ "red" to "gray" may indicate that the host or VM has been shutdown. If the alarm status is "yellow" or "red" then the icons in the VI Client will change (see the host and VM samples below).	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmStatusChangedevent.html
AllVirtualMachinesLicensedevent	This event records that the previously unlicensed virtual machines on the specified host are now licensed. After this event is entered into the event log, we expect to see that the configuration issue removed from the host managed object.	Since VI API 2.5.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AllVirtualMachinesLicensedevent.html
AlreadyAuthenticatedSessionEvent	This event records a failed user logon due to the user already being logged on.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlreadyAuthenticatedSessionEvent.html
BadUsernameSessionEvent	This event records a failed user logon. Failed logons are due to no match existing between the provided user name and password combination and the combinations stored for authentication.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.BadUsernameSessionEvent.html
CanceledHostOperationEvent	An operation performed on the host was canceled. Typically, a previous event in the sequence of events contains more information about the cause of this cancellation.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CanceledHostOperationEvent.html
ClusterComplianceCheckedEvent	This event records that a compliance check was triggered on the cluster.	Since VI API 4.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterComplianceCheckedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
ClusterCreatedEvent	This event records when a cluster is created.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterCreatedEvent.html
ClusterDestroyedEvent	This event records when a cluster is destroyed.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterDestroyedEvent.html
ClusterOvercommittedEvent	This event records when a cluster's host capacity cannot satisfy resource configuration constraints.	Since VI API 2.0.	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterOvercommittedEvent.html
ClusterReconfiguredEvent	This event records when a cluster is reconfigured.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterReconfiguredEvent.html
ClusterStatusChangedEvent	This event records when a cluster's overall status changed.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterStatusChangedEvent.html
com.vmware.license.AddLicenseEvent	Added license	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.AddLicenseEvent.html
com.vmware.license.AssignLicenseEvent	Assigned license	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.AssignLicenseEvent.html
com.vmware.license.LicenseAssignFailedEvent	License assignment faults	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.LicenseAssignFailedEvent.html
com.vmware.license.LicenseExpiryEvent	License expiry	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.LicenseExpiryEvent.html
com.vmware.license.RemoveLicenseEvent	Removed license	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.RemoveLicenseEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
com.vmware.license.UnassignLicenseEvent	Unassigned license	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.UnassignLicenseEvent.html
com.vmware.vc.cim.CIMGroupHealthStateChanged	Hardware health changed	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.vc.cim.CIMGroupHealthStateChanged.html
CustomFieldDefAddedEvent	This event records the addition of a custom field definition.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefAddedEvent.html
CustomFieldDefEvent	This event records a custom field definition event.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefEvent.html
CustomFieldDefRemovedEvent	This event records the removal of a custom field definition.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefRemovedEvent.html
CustomFieldDefRenamedEvent	This event records the renaming of a custom field definition.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefRenamedEvent.html
CustomFieldValueChangedEvent	This event records a change to a custom field value for a particular entity.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldValueChangedEvent.html
CustomizationFailed	The customization sequence completed unsuccessfully in the guest.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationFailed.html
CustomizationLinuxIdentityFailedEvent	Failed to set Linux identity. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationLinuxIdentityFailedEvent.html
CustomizationNetworkSetupFailedEvent	Network setup failed in the guest during customization. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationNetworkSetupFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
CustomizationStartedEvent	The customization sequence has started in the VM guest.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationStartedEvent.html
CustomizationSucceeded	The customization sequence completed successfully in the guest.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationSucceeded.html
CustomizationSysprepFailedEvent	Sysprep failed to run in the guest during customization. This will most likely have been caused by the fact that the wrong sysprep was used for the guest, so we include the version information in the event. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationSysprepFailedEvent.html
CustomizationUnknownFailureEvent	The customization sequence failed unexpectedly in the guest. Refer to the log file specified in the event message.	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationUnknownFailureEvent.html
DasAdmissionControlDisabledEvent	This event records when admission control checks have been disabled in a HA cluster.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAdmissionControlDisabledEvent.html
DasAdmissionControlEnabledEvent	This event records when admission control checks have been enabled in a HA cluster.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAdmissionControlEnabledEvent.html
DasAgentFoundEvent	This event records that vCenter has re-established contact with a primary host in this HA cluster.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAgentFoundEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DasAgentUnavailableEvent	This event records that vCenter cannot contact any primary host in this HA cluster. HA designates some hosts as primary hosts in the HA cluster. When adding a new host to an existing cluster, HA needs to contact one of the primary hosts to finish the configuration. vCenter has lost contact with all primary nodes in the connected state. Attempts to configure HA on a host in this cluster will fail until a DasAgentFoundEvent is logged or unless this is the first node to be configured. For example, if all the other hosts are disconnected first.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAgentUnavailableEvent.html
DasClusterIsolatedEvent	This event records that all hosts have been isolated from the network in a HA cluster.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasClusterIsolatedEvent.html
DasDisabledEvent	This event records when a cluster has been disabled for HA.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasDisabledEvent.html
DasEnabledEvent	This event records when a cluster has been enabled for HA.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasEnabledEvent.html
DasHostFailedEvent	This event records when a host failure has been detected by HA.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasHostFailedEvent.html
DasHostIsolatedEvent	This event records that a host has been isolated from the network in a HA cluster. Since an isolated host cannot be distinguished from a failed host except by the isolated host itself, this event is logged when the isolated host regains network connectivity.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasHostIsolatedEvent.html
DatacenterCreatedEvent	This event records when a datacenter object has been created.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatacenterCreatedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DatacenterRenamedEvent	This event is generated whenever a datacenter is renamed.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatacenterRenamedEvent.html
DatastoreCapacityIncreasedEvent	This event records when increase in a datastore's capacity is observed. It may happen due to different reasons, like extending or expanding a datastore.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreCapacityIncreasedEvent.html
DatastoreDestroyedEvent	This event records when a datastore is removed from vCenter.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreDestroyedEvent.html
DatastoreDiscoveredEvent	This event records when a host is added to vCenter and datastores are discovered.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreDiscoveredEvent.html
DatastoreDuplicatedEvent	This event records when a duplicate datastore name is found. This event is used in vCenter 1.x and is included for backward compatibility.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreDuplicatedEvent.html
DatastoreFileCopiedEvent	This event records copy of a file or directory.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreFileCopiedEvent.html
DatastoreFileDeletedEvent	This event records deletion of a file or directory.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreFileDeletedEvent.html
DatastoreFileMovedEvent	This event records move of a file or directory.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreFileMovedEvent.html
DatastorePrincipalConfigured	This event records that a datastore principal was configured on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastorePrincipalConfigured.html
DatastoreRenamedEvent	This event records the renaming of a datastore.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreRenamedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DatastoreRemovedOnHostEvent	This event records when a datastore is removed from a host but not from vCenter.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreRemovedOnHostEvent.html
DatastoreRenamedOnHostEvent	This event records when a datastore is added to vCenter and is renamed by vCenter because this datastore already exists in vCenter with a different name, or because the name conflicts with another datastore in vCenter.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreRenamedOnHostEvent.html
DrsDisabledEvent	This event records when DRS is disabled on a cluster.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsDisabledEvent.html
DrsEnabledEvent	This event records when DRS is enabled on a cluster.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsEnabledEvent.html
DrsEnteredStandbyModeEvent	This event records that the host has completely put into standby mode by Distributed Power Management. A host in this mode has no running virtual machines and no provisioning operations are occurring.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsEnteredStandbyModeEvent.html
DrsEnteringStandbyModeEvent	This event records that a host has begun the process of entering standby mode initiated by Distributed Power Management.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsEnteringStandbyModeEvent.html
DrsExitedStandbyModeEvent	This event records that Distributed Power Management has brought this host out of standby mode.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsExitedStandbyModeEvent.html
DrsExitingStandbyModeEvent	This event records that a host has begun the process of exiting standby mode initiated by Distributed Power Management.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsExitingStandbyModeEvent.html
DrsExitStandbyModeFailedEvent	This event records that Distributed Power Management tried to bring a host out from standby mode, but the host failed to exit standby mode.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsExitStandbyModeFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DrsInvocationFailedEvent	This event records DRS invocation failure.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsInvocationFailedEvent.html
DrsRecoveredFromFailureEvent	This event records that DRS has recovered from failure. It is triggered by a successful DRS invocation after repeated failure.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsRecoveredFromFailureEvent.html
DrsResourceConfigureFailedEvent	This event records when resource configuration specification synchronization fails on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsResourceConfigureFailedEvent.html
DrsResourceConfigureSyncedEvent	This event records when resource configuration specification returns to synchronized from previous failure.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsResourceConfigureSyncedEvent.html
DrsVmMigratedEvent	This event records a virtual machine migration that was recommended by DRS.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsVmMigratedEvent.html
DrsVmPoweredOnEvent	This event records when a virtual machine is powered on by DRS.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsVmPoweredOnEvent.html
DuplicateIpDetectedEvent	This event records that a duplicate IP address has been observed in conflict with the vmotion or IP storage interface configured on the host.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DuplicateIpDetectedEvent.html
DVPortgroupCreatedEvent	Two distributed virtual portgroup was created.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortgroupCreatedEvent.html
DVPortgroupDestroyedEvent	Two distributed virtual portgroup was destroyed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortgroupDestroyedEvent.html
DVPortgroupReconfiguredEvent	Two distributed virtual portgroup was reconfigured.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortgroupReconfiguredEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DVPortgroupRenamedEvent	Two distributed virtual portgroup was renamed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortgroupRenamedEvent.html
DvsCreatedEvent	A distributed virtual switch was created.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsCreatedEvent.html
DvsDestroyedEvent	A distributed virtual switch was destroyed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsDestroyedEvent.html
DvsEvent	These are dvs-related events.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsEvent.html
DvsHostBackInSyncEvent	The DVS configuration on the host was synchronized with that of the vCenter Server and the configuration is the same on the host and vCenter Server.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostBackInSyncEvent.html
DvsHostJoinedEvent	A host joined the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostJoinedEvent.html
DvsHostLeftEvent	A host left the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostLeftEvent.html
DvsHostWentOutOfSyncEvent	The DVS configuration on the host diverged from that of the Virtual Center Server.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostWentOutOfSyncEvent.html
DvsMergedEvent	Two distributed virtual switches was merged.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsMergedEvent.html
DvsPortBlockedEvent	A port is blocked in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortBlockedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DvsPortConnectedEvent	A port is connected in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortConnectedEvent.html
DvsPortCreatedEvent	New ports are created in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortCreatedEvent.html
DvsPortDeletedEvent	Existing ports are deleted in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortDeletedEvent.html
DvsPortDisconnectedEvent	A port is disconnected in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortDisconnectedEvent.html
DvsPortJoinPortgroupEvent	A port was moved into the distributed virtual portgroup.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortJoinPortgroupEvent.html
DvsPortLeavePortgroupEvent	A port was moved out of the distributed virtual portgroup.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortLeavePortgroupEvent.html
DvsPortLinkDownEvent	A port of which link status is changed to down in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortLinkDownEvent.html
DvsPortLinkUpEvent	A port of which link status is changed to up in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortLinkUpEvent.html
DvsPortReconfiguredEvent	Existing ports are reconfigured in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortReconfiguredEvent.html
DvsPortUnblockedEvent	A port is blocked in the distributed virtual switch.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortUnblockedEvent.html
DvsReconfiguredEvent	A distributed virtual switch was reconfigured.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsReconfiguredEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
DvsRenamedEvent	A distributed virtual switch was renamed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsRenamedEvent.html
DvsUpgradeAvailableEvent	An upgrade for the distributed virtual switch is available.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradeAvailableEvent.html
DvsUpgradedEvent	The distributed virtual switch was upgraded.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradedEvent.html
DvsUpgradeInProgressEvent	An upgrade for the distributed virtual switch is in progress.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradeInProgressEvent.html
DvsUpgradeRejectedEvent	An upgrade for the distributed virtual switch is rejected.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradeRejectedEvent.html
EnteredMaintenanceModeEvent	This event records that the host has completely entered maintenance mode. A host in this mode has no running virtual machines and no provisioning operations are occurring.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteredMaintenanceModeEvent.html
EnteredStandbyModeEvent	This event records that the host has completely entered standby mode. A host in this mode has no running virtual machines and no provisioning operations are occurring.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteredStandbyModeEvent.html
EnteringMaintenanceModeEvent	This event records that a host has begun the process of entering maintenance mode. All virtual machine operations are blocked, except for the following: MigrateVM, PowerOffVM, SuspendVM, ShutdownGuest, StandbyGuest	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteringMaintenanceModeEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
EnteringStandbyModeEvent	This event records that a host has begun the process of entering standby mode. All virtual machine operations are blocked, except for the following: MigrateVM, PowerOffVM, SuspendVM, ShutdownGuest, StandbyGuest	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteringStandbyModeEvent.html
ErrorUpgradeEvent	This event is a general error event from upgrade.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ErrorUpgradeEvent.html
ExitedStandbyModeEvent	This event records that the host is no longer in standby mode.	Since VI AP 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitedStandbyModeEvent.html
ExitingStandbyModeEvent	This event records that a host has begun the process of exiting standby mode.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitingStandbyModeEvent.html
ExitMaintenanceModeEvent	This event records that the host is no longer in maintenance mode.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitMaintenanceModeEvent.html
ExitStandbyModeFailedEvent	This event records that the host failed to exit standby mode.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitStandbyModeFailedEvent.html
FailoverLevelRestored	This event records that the amount of cluster resources has increased and is now sufficient to satisfy the configured HA failover level.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.FailoverLevelRestored.html
GeneralEvent	This is actually the base class for general events and should not be seen. The derived general events are the ones that will be generated. See VMware's documentation for the complete list of these events.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralEvent.html
GeneralHostErrorEvent	This event is the general error event for a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralHostErrorEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
GeneralHostInfoEvent	This event is the general information event for a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralHostInfoEvent.html
GeneralHostWarningEvent	This event is the general warning event for a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralHostWarningEvent.html
GeneralUserEvent	This event is the general user event type.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralUserEvent.html
GeneralVmErrorEvent	This event is the general error event for a virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmErrorEvent.html
GeneralVmErrorEvent	This event is the general error event for a virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmErrorEvent.html
GeneralVmInfoEvent	This event is the general information event for a virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmInfoEvent.html
GeneralVmWarningEvent	This event is the general warning event for a virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmWarningEvent.html
GhostDvsProxySwitchDetectedEvent	This event records when vCenter server found DVS proxy switches on the host that don't match any DVS defined in vCenter.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GhostDvsProxySwitchDetectedEvent.html
GhostDvsProxySwitchRemovedEvent	This event records when the ghost DVS proxy switches (a.k.a host proxy switches that don't match any DVS defined in vCenter) were removed on the host.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GhostDvsProxySwitchRemovedEvent.html
GlobalMessageChangeEvent	This event records a change to the global message.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GlobalMessageChangeEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HealthStatusChangedEvent	used to report change in health status of vCenter components.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HealthStatusChangedEvent.html
HostAddedEvent	This event records the addition of a host to vCenter.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAddedEvent.html
HostAddFailedEvent	This event records that adding a host failed.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAddFailedEvent.html
HostAdminDisableEvent	This event records that the permission on the host has been changed such that only the user account used for vCenter operation will have Administrator permission.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAdminDisableEvent.html
HostAdminEnableEvent	This event records that the administrator permission has been restored.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAdminEnableEvent.html
HostCnxFailedAccountFailedEvent	This event records a failure to connect to a host due to a failure to set up a management account.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedAccountFailedEvent.html
HostCnxFailedAlreadyManagedEvent	This event records a failure to connect to a host due to the host being managed by a different vCenter server.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedAlreadyManagedEvent.html
HostCnxFailedBadCagentEvent	This event records a failure to connect to a host due to no response being received from the host agent.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedBadCagentEvent.html
HostCnxFailedBadUsernameEvent	This event records a failure to connect to a host due to an invalid user name and password combination.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedBadUsernameEvent.html
HostCnxFailedBadVersionEvent	This event records a failure to connect to a host due to an incompatible client version.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedBadVersionEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HostCnxFailedCcagentUpgradeEvent	This event records a failure to connect to a host due to a conflict with an upgrade or installation of the host agent.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedCcagentUpgradeEvent.html
HostCnxFailedEvent	This event records a failure to connect to a host due to an unspecified condition.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedEvent.html
HostCnxFailedNetworkErrorEvent	This event records a failure to connect to a host due to a network error.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNetworkErrorEvent.html
HostCnxFailedNoAccessEvent	This event records a failure to connect to a host due to insufficient account privileges.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNoAccessEvent.html
HostCnxFailedNoConnectionEvent	This event records a failure to connect to a host due to a host not being present on the network.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNoConnectionEvent.html
HostCnxFailedNoLicenseEvent	This event records a failure to connect to a host due to a licensing issue.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNoLicenseEvent.html
HostCnxFailedNotFoundEvent	This event records a failure to connect to a host due to a failure to resolve the host name.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNotFoundEvent.html
HostCnxFailedTimeoutEvent	This event records a failure to connect to a host due to a timeout on the connection attempt.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedTimeoutEvent.html
HostComplianceCheckedEvent	This event records that a compliance check was triggered on the host.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostComplianceCheckedEvent.html
HostCompliantEvent	This event records that host is in compliance.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCompliantEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HostConfigAppliedEvent	This event records that a configuration was applied on a host.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostConfigAppliedEvent.html
HostConnectedEvent	This event records a successful host connection. After this event is generated, there will also be a VmConnectedEvent generated for each VM on the host, regardless of the VM's power state.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostConnectedEvent.html
HostConnectionLostEvent	This event records the (unexpected) loss of a host connection. This might occur if a ESX system was powered down, for example. After this event is generated, there will also be a VmDisconnectedEvent generated for each VM on the host, regardless of the VM's power state.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostConnectionLostEvent.html
HostDasDisabledEvent	This event records when HA has been disabled on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasDisabledEvent.html
HostDasDisablingEvent	This event records when HA is being disabled on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasDisablingEvent.html
HostDasEnabledEvent	This event records when HA has been enabled on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasEnabledEvent.html
HostDasEnablingEvent	This event records when HA has been enabled on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasEnablingEvent.html
HostDasErrorEvent	This event records when there is a HA error on a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasErrorEvent.html
HostDasOkEvent	This event records when HA on a host returns to normal after an error.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasOkEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HostDisconnectedEvent	This event records the completion of a user requested disconnect of a host. Following this event, there will be a VmDisconnectedEvent generated for each VM on the host, regardless of the VM's power state.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDisconnectedEvent.html
HostEnableAdminFailedEvent	This event records the failure to restore some of the administrator's permissions.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostEnableAdminFailedEvent.html
HostExtraNetworksEvent	This event records the fact that a host has extra networks not used by other hosts for HA communication.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostExtraNetworksEvent.html
HostGetShortNameFailedEvent	This event records that hostname -s failed or returned a name containing '.'.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostGetShortNameFailedEvent.html
HostInventoryFullEvent	This event records if the inventory of hosts has reached the capacity of the current version of vCenter.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostInventoryFullEvent.html
HostInventoryUnreadableEvent	Event indicating that the virtual machine inventory file on the host is damaged or unreadable.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostInventoryUnreadableEvent.html
HostIpChangedEvent	This event records a change in host IP address.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIpChangedEvent.html
HostIpInconsistentEvent	This event records that the IP address resolution returned different addresses on the host. Please check your host's network configuration.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIpInconsistentEvent.html
HostIpToShortNameFailedEvent	This event records that the host's IP address could not be resolved to a short name.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIpToShortNameFailedEvent.html
HostIsolationIpPingFailedEvent	This event records that the isolation address could not be pinged. The default isolation address is the service console's default gateway.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIsolationIpPingFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HostLicenseExpiredEvent	This event records an expired host license.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostLicenseExpiredEvent.html
HostMissingNetworksEvent	This event records the fact that a host is missing networks that other hosts are using for HA communication.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostMissingNetworksEvent.html
HostMonitoringStateChangedEvent	This event records when host monitoring state has changed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostMonitoringStateChangedEvent.html
HostNoAvailableNetworksEvent	This event records the fact that a host does not have any available networks for HA communication.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNoAvailableNetworksEvent.html
HostNoHAEnabledPortGroupsEvent	This event records the fact that a host does not have any HA-enabled port groups.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNoHAEnabledPortGroupsEvent.html
HostNonCompliantEvent	This event records that host went out of compliance.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNonCompliantEvent.html
HostNoRedundantManagementNetworkEvent	This event records the fact that a host does not have a redundant management network. It is recommended that host management networks be configured with redundancy.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNoRedundantManagementNetworkEvent.html
HostNotInClusterEvent	This event records that the host is not a cluster member.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNotInClusterEvent.html
HostOvercommittedEvent	This event records when a host's capacity cannot satisfy resource configuration constraints.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostOvercommittedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HostPrimaryAgentNotShortNameEvent	This event records that the primary agent specified is not a short name. The name of the primary agent is usually stored as a short name. You should not normally see this error. Please check the network configurations of your hosts.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostPrimaryAgentNotShortNameEvent.html
HostProfileAppliedEvent	This event records that a Profile application was done on the host.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostProfileAppliedEvent.html
HostReconnectionFailedEvent	This event records a failed attempt to re-establish a host connection.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostReconnectionFailedEvent.html
HostRemovedEvent	This event records the removal of a host from vCenter.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostRemovedEvent.html
HostShortNameInconsistentEvent	This event records that host name resolution returned different names on the host. Please check your host's network configuration and your DNS configuration. There may be duplicate entries.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostShortNameInconsistentEvent.html
HostShortNameToIpFailedEvent	This event records that host name resolution returned different names on the host. Please check your host's network configuration and your DNS configuration. There may be duplicate entries.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostShortNameToIpFailedEvent.html
HostShutdownEvent	This event records the shutdown of a host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostShutdownEvent.html
HostStatusChangedEvent	This event records when a host's overall status changed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostStatusChangedEvent.html
HostSyncFailedEvent	This event records a failure to sync up with the vCenter agent on the host.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostSyncFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
HostUpgradeFailedEvent	This event records a failure to connect to a host due to an installation or upgrade issue.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostUpgradeFailedEvent.html
HostUserWorldSwapNotEnabledEvent	This event records that the userworld swap is not enabled on the host. HA needs userworld swap to be configured on embedded ESX hosts to function.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostUserWorldSwapNotEnabledEvent.html
HostVnicConnectedToCustomizedDVPortEvent	This event records when some host vnics were reconfigured to use DVPorts with port level configuration, which might be different from the DVportgroup.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostVnicConnectedToCustomizedDVPortEvent.html
HostWwnChangedEvent	This event records a change in a host's WWN (World Wide Name).	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostWwnChangedEvent.html
HostWwnConflictEvent	This event records a conflict of host WWNs (World Wide Name).	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostWwnConflictEvent.html
IncorrectHostInformationEvent	This event records if the host did not provide the information needed to acquire the correct set of licenses.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.IncorrectHostInformationEvent.html
InfoUpgradeEvent	This event is a general information event from upgrade.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.InfoUpgradeEvent.html
InsufficientFailoverResourcesEvent	This event records that the cluster resources are insufficient to satisfy the configured HA failover level.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.InsufficientFailoverResourcesEvent.html
InvalidEditionEvent	This event records if the license edition is set to an invalid value.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.InvalidEditionEvent.html
LicenseExpiredEvent	This event records the expiration of a license.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseExpiredEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
LicenseNonComplianceEvent	This event records that the inventory is not license compliant.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseNonComplianceEvent.html
LicenseRestrictedEvent	This event records if the required licenses could not be reserved because of a restriction in the option file.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseRestrictedEvent.html
LicenseServerAvailableEvent	This event is reported if the LicenseServer was previously unreachable and is now reachable.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseServerAvailableEvent.html
LicenseServerUnavailableEvent	This event is reported if the LicenseServer becomes unreachable.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseServerUnavailableEvent.html
LocalDatastoreCreatedEvent	This event records when a local datastore is created.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LocalDatastoreCreatedEvent.html
LockerMisconfiguredEvent	Locker has not been configured properly. This event is fired when the datastore configured to back the locker does not exist or when connectivity to the datastore is lost.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LockerMisconfiguredEvent.html
LockerReconfiguredEvent	Locker has not been configured properly. This event is fired when the datastore configured to back the locker does not exist or when connectivity to the datastore is lost.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LockerReconfiguredEvent.html
MigrationErrorEvent	A migration error occurred.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationErrorEvent.html
MigrationHostErrorEvent	This records a migration error that includes the destination host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationHostErrorEvent.html
MigrationHostWarningEvent	This records a migration warning that includes the destination host.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationHostWarningEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
MigrationResourceErrorEvent	This records a migration error that includes both the destination host and resource pool.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationResourceErrorEvent.html
MigrationResourceWarningEvent	This records a migration warning that includes both the destination host and resource pool.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationResourceWarningEvent.html
MigrationWarningEvent	This records a migration warning.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationWarningEvent.html
NASDatastoreCreatedEvent	This event records when a NAS datastore is created.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NASDatastoreCreatedEvent.html
NoAccessUserEvent	This event records a failed user logon due to insufficient access permission.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoAccessUserEvent.html
NoDatastoresConfiguredEvent	No datastores have been configured on the host.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoDatastoresConfiguredEvent.html
NoLicenseEvent	A NoLicenseEvent is reported if the required licenses could not be reserved. Each feature that is not fully licensed is reported.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoLicenseEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
NoMaintenanceModeDrsRecommendationForVM	This event records that DRS did not recommend a migration for a powered on virtual machine, even though its host is going into maintenance mode. DRS may not be able to recommend a migration for a virtual machine for reasons, include but not limited to: No other connected host is compatible with this virtual machine. None of the other compatible hosts have sufficient resources to satisfy the reservation requirements of this virtual machine. Moving to any other host would violate a DRS rule. For example, all other compatible hosts have some incompatible virtual machines running. DRS is disabled on this virtual machine. This virtual machine was still in the process of migrating into the host going into maintenance mode and was not considered by DRS. This virtual machine was in the process of migrating to another host when the host tried to enter maintenance mode.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoMaintenanceModeDrsRecommendationForVM.html
NotEnoughResourcesToStartVmEvent	This event records when the HA does not find sufficient resources to failover a virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NotEnoughResourcesToStartVmEvent.html
OutOfSyncDvsHost	The list of hosts that have the DVS configuration on the host diverged from that of the vCenter Server.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.OutOfSyncDvsHost.html
PermissionAddedEvent	This event records the creation of a permission.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.PermissionAddedEvent.html
PermissionRemovedEvent	This event records the removal of a permission.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.PermissionRemovedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
PermissionUpdatedEvent	This event records the update of a permission.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.PermissionUpdatedEvent.html
ProfileAssociatedEvent	This event records that a Profile was associated with a managed entity.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileAssociatedEvent.html
ProfileChangedEvent	This event records that the profile has been edited.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileChangedEvent.html
ProfileCreatedEvent	This event records that a Profile was created.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileCreatedEvent.html
ProfileDissociatedEvent	This event records that a Profile was dissociated from a managed entity.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileDissociatedEvent.html
ProfileEvent	This event records a Profile specific event.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileEvent.html
ProfileReferenceHostChangedEvent	This event records that the reference host associated with this profile has changed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileReferenceHostChangedEvent.html
ProfileRemovedEvent	This event records that a Profile was removed.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileRemovedEvent.html
ResourcePoolCreatedEvent	This event records when a new resource pool is created.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolCreatedEvent.html
ResourcePoolDestroyedEvent	This event records when a resource pool is destroyed.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolDestroyedEvent.html
ResourcePoolMovedEvent	This event records when a resource pool is moved.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolMovedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
ResourcePoolReconfiguredEvent	This event records when a resource pool configuration is changed.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolReconfiguredEvent.html
ResourceViolatedEvent	This event records when a conflict with a resource pool's resource configuration is detected.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourceViolatedEvent.html
RoleAddedEvent	This event records the creation of a role.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.RoleAddedEvent.html
RoleRemovedEvent	This class records the removal of a role.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.RoleRemovedEvent.html
RoleUpdatedEvent	This event records the creation of a role.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.RoleUpdatedEvent.html
ScheduledTaskCompletedEvent	This event records the completion of a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskCompletedEvent.html
ScheduledTaskCreatedEvent	This event records the creation of a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskCreatedEvent.html
ScheduledTaskEmailCompletedEvent	This event records the sending of a notification via email for a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskEmailCompletedEvent.html
ScheduledTaskEmailFailedEvent	This event records the failure of an attempt to send a notification via email for a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskEmailFailedEvent.html
ScheduledTaskEvent	This event records the completion of a scheduled task. The name of the task is indicated.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskEvent.html
ScheduledTaskFailedEvent	This event records the failure of a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
ScheduledTaskReconfiguredEvent	This event records the reconfiguration of a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskReconfiguredEvent.html
ScheduledTaskRemovedEvent	This event records the removal of a scheduled task.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskRemovedEvent.html
ScheduledTaskStartedEvent	This event records when a scheduled task started.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskStartedEvent.html
ServerLicenseExpiredEvent	This event records an expired vCenter server license.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ServerLicenseExpiredEvent.html
ServerStartedSessionEvent	This event records the starting of the vCenter server.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ServerStartedSessionEvent.html
SessionTerminatedEvent	This event records the termination of a session.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.SessionTerminatedEvent.html
TaskEvent	This event records the completion of a manually triggered task. The name of the task is indicated.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TaskEvent.html
TaskTimeoutEvent	This event records when a task is cleaned up because of a timeout.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TaskTimeoutEvent.html
TemplateBeingUpgradedEvent	This event records the start of a template upgrade.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TemplateBeingUpgradedEvent.html
TemplateUpgradedEvent	This event records that the template upgrade succeeded.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TemplateUpgradedEvent.html
TemplateUpgradeFailedEvent	This event records that the template upgrade failed.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TemplateUpgradeFailedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
TimedOutHostOperationEvent	This event indicates that an operation performed on the host timed out. Typically, a previous event in the sequence of events contains more information about the cause of the operation timing out.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TimedOutHostOperationEvent.html
UnlicensedVirtualMachinesEvent	This event records that we have unlicensed virtual machines on the specified host. This can be both a Config issue and an entry in the event log.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UnlicensedVirtualMachinesEvent.html
UnlicensedVirtualMachinesFoundEvent	This event records that we discovered unlicensed virtual machines on the specified host. After this event is entered into the event log, we expect to see a corresponding UnlicensedVirtualMachinesEvent configIssue on the host.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UnlicensedVirtualMachinesFoundEvent.html
UpdatedAgentBeingRestartedEvent	This event records that the agent has been patched and will be restarted.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UpdatedAgentBeingRestartedEvent.html
UpgradeEvent	This event records that the agent has been patched and will be restarted.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UpgradeEvent.html
UserAssignedToGroup	This event records that a user account membership was added to a group.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserAssignedToGroup.html
UserLoginSessionEvent	This event records a user login. Because these are so prolific, they are ignored (by default) by the nworks VMware Collector.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserLoginSessionEvent.html
UserLogoutSessionEvent	This event records a user logout. Because these are so numerous, they are ignored (by default) by the nworks VMware Collector.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserLogoutSessionEvent.html
UserPasswordChanged	This event records that a user password changed.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserPasswordChanged.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
UserUnassignedFromGroup	This event records that a user account membership was removed from a group.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserUnassignedFromGroup.html
UserUpgradeEvent	This event is a general user event from upgrade.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserUpgradeEvent.html
VcAgentUninstalledEvent	This event records when the vCenter agent on a host is uninstalled.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUninstalledEvent.html
VcAgentUninstallFailedEvent	This event records when the vCenter agent on a host failed to uninstall.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUninstallFailedEvent.html
VcAgentUpgradedEvent	This event records when the vCenter agent on a host upgraded.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUpgradedEvent.html
VcAgentUpgradeFailedEvent	This event records when the vCenter agent on a host failed to upgrade.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUpgradeFailedEvent.html
VimAccountPasswordChangedEvent	Password for the Vim account user on the host has been changed. This is an account created by vCenter and used to manage the host.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VimAccountPasswordChangedEvent.html
VmAcquiredMksTicketEvent	This event records a user successfully acquiring an MKS ticket (i.e., a mouse-keyboard-screen connection ticket).	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmAcquiredMksTicketEvent.html
VmAutoRenameEvent	This event records that a virtual machine was automatically renamed because of a name conflict.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmAutoRenameEvent.html
VmBeingClonedEvent	This event records a virtual machine being cloned.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingClonedEvent.html
VmBeingCreatedEvent	This event records a virtual machine being created.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingCreatedEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
VmBeingDeployedEvent	This event records a virtual machine being deployed from a template.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingDeployedEvent.html
VmBeingHotMigratedEvent	This event records that a virtual machine is being hot-migrated.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingHotMigratedEvent.html
VmBeingMigratedEvent	This event records that a virtual machine is being migrated.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingMigratedEvent.html
VmBeingRelocatedEvent	This event records that a virtual machine is being relocated.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingRelocatedEvent.html
VmClonedEvent	This event records the completion of a virtual machine cloning operation.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmClonedEvent.html
VmCloneFailedEvent	This event records a failure to clone a virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmCloneFailedEvent.html
VmConfigMissingEvent	This event records if the configuration file can not be found.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmConfigMissingEvent.html
VmConnectedEvent	This event is generated by the VC for each VM on a host whenever the host is reconnected to the VC. One event per VM will be generated, regardless of the power state of the VM.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmConnectedEvent.html
VmCreatedEvent	This event records that a virtual machine was successfully created.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmCreatedEvent.html
VmDasBeingResetEvent	This event records when a virtual machine is reset by HA VM Health Monitoring on hosts that do not support the create screenshot api or if the createscreenshot api fails.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasBeingResetEvent.html

Table 20-1. Sun JVM Events (Continued)

Name	Description	Available from	vCenter Reference
VmDasBeingResetWithScreenshotEvent	This event records when a virtual machine is reset by HA VM Health Monitoring on hosts that support the create screenshot api.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasBeingResetEvent.html
VmDasResetFailedEvent	This event records when HA VM Health Monitoring fails to reset a virtual machine after failure.	Since VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasResetFailedEvent.html
VmDasUpdateErrorEvent	The event records that an error occurred when updating the HA agents with the current state of the virtual machine. If this occurs during a powerOn operation, the virtual machine will not be failed over in the event of a host failure. If it occurs during a powerOff, the virtual machine will be automatically powered on if the host it was last running on crashes.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasUpdateErrorEvent.html
VmDasUpdateOkEvent	This event records that HA agents have been updated with the current state of the virtual machine.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasUpdateOkEvent.html
VmDateRolledBackEvent	This event records when the vCenter server date rolled back.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDateRolledBackEvent.html
VmDeployedEvent	This event records the completion of a virtual machine deployment operation.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDeployedEvent.html
VmDeployFailedEvent	This event records a failure to deploy from a template.	Since VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDeployFailedEvent.html

VmDisconnectedEvent

This topic provides information about events specific to the VmDisconnectedEvent.

Table 20-2. VmDisconnectedEvent

Name	Description	Available Since	vCenter Reference
VmDisconnectedEvent	<p>This event is generated by the VC for each VM on a host whenever the host becomes disconnected from the VC. One event per VM will be generated, regardless of the power state of the VM.</p> <p>Disconnection of the host includes both planned disconnections (indicated by HostDisconnectedEvent) and unplanned disconnections (indicated by HostConnectionLostEvent).</p>	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.SinceVI2.0.html
VmDiscoveredEvent	This event records a virtual machine discovery.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDiscoveredEvent.html
VmDiskFailedEvent	This event records a failure to create a virtual disk in a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDiskFailedEvent.html
VmEmigratingEvent	This event records a virtual machine migration.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEmigratingEvent.html
VmEndRecordingEvent	This event indicates the end of a recording session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEndRecordingEvent.html
VmEndReplayingEvent	This event indicates the end of a replay session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEndReplayingEvent.html
VmEvent	This is a catch-all event for various VM events (the type of event is listed in the event). See VMware's documentation for the list of possible events.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEvent.html

Table 20-2. VmDisconnectedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmFailedMigrateEvent	This event records a failure to migrate a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedMigrateEvent.html
VmFailedRelayOutEvent	This event records a specific failure to re-layout a virtual machine, such as a failure to access the disk. "Layout" refers to the reformatting of the data on the disk to match VMware's latest VMFS3 structure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedRelayOutEvent.html
VmFailedRelayoutOnVmfs2DatastoreEvent	This event records a failure to re-layout a virtual machine when the virtual machine still has disks on a VMFS2 volume. "Layout" refers to the reformatting of the data on the disk to match VMware's latest VMFS3 structure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedRelayoutOnVmfs2DatastoreEvent.html
VmFailedStartingSecondaryEvent	This event records vmotion failure when starting a secondary VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedStartingSecondaryEvent.html
VmFailedToPowerOffEvent	This event records a failure to power off a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToPowerOffEvent.html
VmFailedToPowerOnEvent	This event records a failure to power on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToPowerOnEvent.html
VmFailedToRebootGuestEvent	This event records a failure to reboot the guest on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToRebootGuestEvent.html
VmFailedToResetEvent	This event records a failure to reset a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToResetEvent.html

VmFailedToShutdownGuestEvent

This topic provides information about events related to the VmFailedToShutdownGuestEvent

Table 20-3. VmFailedToShutdownGuestEvent

Name	Description	Available Since	vCenter Reference
VmFailedToShutdownGuestEvent	This event records a failure to shut down the guest on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToShutdownGuestEvent.html
VmFailedToStandbyGuestEvent	This event records a failure to set the guest on a virtual machine to a standby state.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToStandbyGuestEvent.html
VmFailedToSuspendEvent	This event records a failure to suspend a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToSuspendEvent.html
VmFailedUpdatingSecondaryConfig	This event records after a failover the new primary failed to update the config of the secondary vm.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedUpdatingSecondaryConfig.html
VmFailoverFailed	This event records when a virtual machine failover was unsuccessful.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailoverFailed.html
VmFaultToleranceStateChangedEvent	This event records a fault tolerance state change. A default alarm will be triggered upon this event, which would change the vm state: the vm state is red if the newState is needSecondary; the vm state is yellow if the newState is disabled; the vm state is green if the newState is notConfigured, starting, enabled or running.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFaultToleranceStateChangedEvent.html
VmFaultToleranceTurnedOffEvent	This event records that all secondary virtual machines have been removed and fault tolerance protection turned off for this virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFaultToleranceTurnedOffEvent.html
VmFaultToleranceTerminatedEvent	This event records a secondary or primary VM is terminated. The reason could be : divergence, lost connection to secondary, partial hardware failure of secondary, or by user.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFaultToleranceVmTerminatedEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmFSDatastoreCreatedEvent	This event records when a VMFS datastore is created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFSDatastoreCreatedEvent.html
VmFSDatastoreExpandedEvent	This event records when a datastore is expanded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFSDatastoreExpandedEvent.html
VmFSDatastoreExtendedEvent	This event records when a datastore is extended.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFSDatastoreExtendedEvent.html
VmGuestRebootEvent	This is a virtual machine guest reboot request event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmGuestRebootEvent.html
VmGuestShutdownEvent	This is a virtual machine guest shutdown request event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmGuestShutdownEvent.html
VmGuestStandbyEvent	This is a virtual machine guest standby request event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmGuestStandbyEvent.html
VmHealthMonitoringStateChangedEvent	This event records when host monitoring state has changed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmHealthMonitoringStateChangedEvent.html
VmInstanceUuidAssignedEvent	This event records the assignment of a new instance UUID to a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmInstanceUuidAssignedEvent.html
VmInstanceUuidChangedEvent	This event records a change in a virtual machine's instance UUID.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmInstanceUuidChangedEvent.html
VmInstanceUuidConflictEvent	This event records a conflict of virtual machine instance UUIDs.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmInstanceUuidConflictEvent.html
VmMacAssignedEvent	This event records the assignment of a new MAC address to a virtual network adapter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMacAssignedEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmMacChangedEvent	This event records a change in a virtual machine's MAC address.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMacChangedEvent.html
VmMacConflictEvent	This event records a MAC address conflict for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMacConflictEvent.html
VmMaxFTRestartCountReached	This event is fired when FT VM reached the max restart count.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMaxFTRestartCountReached.html
VmMaxRestartCountReached	This event is fired when the VM reached the max restart count.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMaxRestartCountReached.html
VmMessageErrorEvent	This event records when an error message (consisting of a collection of "observations") is thrown by the virtual machine. This is a generic event for such messages.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMessageErrorEvent.html
VmMessageEvent	This event records when a message is thrown by the virtual machine. This is a generic event for such messages.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMessageEvent.html
VmMessageWarningEvent	This event records when a warning message (consisting of a collection of "observations") is thrown by the virtual machine. This is a generic event for such messages.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMessageWarningEvent.html
VmMigratedEvent	This event records a virtual machine migration.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMigratedEvent.html
VmNoCompatibleHostForSecondaryEvent	This event records that no compatible host was found to place a secondary VM. A default alarm will be triggered upon this event, which by default would trigger a SNMP trap.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmNoCompatibleHostForSecondaryEvent.html
VmNoNetworkAccessEvent	This event records a migration failure when the destination host is not on the same network as the source host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmNoNetworkAccessEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmOrphanedEvent	This event records a virtual machine for which no host is responsible.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmOrphanedEvent.html
VMotionLicenseExpiredEvent	This event records an expired VMotion license.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VMotionLicenseExpiredEvent.html
VmPoweredOffEvent	This event records when a virtual machine finished powering off.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPoweredOffEvent.html
VmPoweredOnEvent	This event records when a virtual machine finished powering on.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPoweredOnEvent.html
VmPoweringOnWithCustomizedDVPortEvent	This event records when a virtual machine was powering on using DVPorts with port level configuration, which might be different from the DVportgroup.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPoweringOnWithCustomizedDVPortEvent.html
VmPowerOffOnIsolationEvent	This event records when a virtual machine has been powered off on an isolated host in a HA cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPowerOffOnIsolationEvent.html
VmPrimaryFailoverEvent	This event records an fault tolerance failover. The reason could be : lost connection to primary, partial hardware failure of primary or by user.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPrimaryFailoverEvent.html
VmReconfiguredEvent	This event records a reconfiguration of the virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmReconfiguredEvent.html
VmRegisteredEvent	This event records that a virtual machine was successfully registered.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRegisteredEvent.html
VmRelayOutSuccessfulEvent	This event records that a virtual machine was successfully converted to the new virtual machine format on a VMFS3 volume.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelayOutSuccessfulEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmRelayUpToDateEvent	This event records that a virtual machine is already in the correct format. No re-layout is necessary. "Layout" refers to the reformatting of the data on the disk to match VMware's latest VMFS3 structure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelayUpToDateEvent.html
VmRelocatedEvent	This event records the completion of a virtual machine relocation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelocatedEvent.html
VmRelocateFailedEvent	This event records a failure to relocate a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelocateFailedEvent.html
VmRemoteConsoleConnectedEvent	This event records that a remote console was connected to the VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRemoteConsoleConnectedEvent.html
VmRemoteConsoleDisconnectedEvent	This event records that a remote console was disconnected from the VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRemoteConsoleDisconnectedEvent.html
VmRemovedEvent	This event records a virtual machine removed from vCenter management.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRemovedEvent.html
VmRenamedEvent	This event records the renaming of a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRenamedEvent.html
VmResettingEvent	This event records a virtual machine resetting.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResettingEvent.html
VmResourcePoolMovedEvent	This event records when a virtual machine is moved from one resource pool to another.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResourcePoolMovedEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmResourceReallocatedEvent	This event records a change in resource allocation of a virtual machine. The name of the virtual machine is in the event. This event is generated typically in DRS configurations when VC detects that the available resources (such as CPU) are changing.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResourceReallocatedEvent.html
VmRestartedOnAlternativeHostEvent	This event records that the virtual machine was restarted on a host, since its original host had failed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRestartedOnAlternateHostEvent.html
VmResumingEvent	This event records a virtual machine resuming.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResumingEvent.html
VmSecondaryAddedEvent	This event records a secondary VM is added.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryAddedEvent.html
VmSecondaryDisabledBySystemEvent	This event records that a fault tolerance secondary VM has been disabled by vCenter because the VM could not be powered on.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryDisabledBySystemEvent.html
VmSecondaryDisabledEvent	This event records a secondary VM is disabled.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryDisabledEvent.html
VmSecondaryEnabledEvent	This event records a secondary VM is enabled.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryEnabledEvent.html
VmSecondaryStartedEvent	This event records a secondary VM is started successfully.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryStartedEvent.html
VmShutdownOnIsolationEvent	This event records when a virtual machine has been shut down on an isolated host in a HA cluster.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmShutdownOnIsolationEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmStartingEvent	This event records a virtual machine powering on. It typically will be followed by a VmPoweredOnEvent.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartingEvent.html
VmStartingSecondaryEvent	This event records a vmotion to start a secondary VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartingSecondaryEvent.html
VmStartRecordingEvent	This event indicates the start of a recording session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartRecordingEvent.html
VmStartReplayingEvent	This event indicates the start of a replay session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartReplayingEvent.html
VmStaticMacConflictEvent	This event records a static MAC address conflict for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStaticMacConflictEvent.html
VmStoppingEvent	This event records a virtual machine stopping.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStoppingEvent.html
VmSuspendedEvent	This event records when a virtual machine finished suspending.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSuspendedEvent.html
VmSuspendingEvent	This event records a virtual machine suspending.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSuspendingEvent.html
VmTimedOutStartingSecondaryEvent	This event records timeout when starting a secondary VM. A default alarm will be triggered upon this event, which by default would trigger a SNMP trap.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmTimedOutStartingSecondaryEvent.html
VmUnsupportedStartingEvent	This event records when an unsupported guest is powering on.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUnsupportedStartingEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmUpgradeCompleteEvent	This event records the successful completion of an upgrade operation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUpgradeCompleteEvent.html
VmUpgradingEvent	This event records the process of upgrading the virtual hardware on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUpgradingEvent.html
VmUuidAssignedEvent	This event records the assignment of a new BIOS UUID to a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUuidAssignedEvent.html
VmUuidChangedEvent	This event records a change in a virtual machine's BIOS UUID. nworks has observed that during migrations this event may be generated even though the UUID is not changing. A sample event is included below (note that on this version of ESX the name of the VM is missing after the word "for", and the UUID is actually not changing). Changed BIOS UUID from 500e3054-23fd-6ff6-58a7-037500940891 to 500e3054-23fd-6ff6-58a7-037500940891 for on esx04.seattle.nworks.local in SEATTLE VmUuidChangedEvent	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUuidChangedEvent.html
VmUuidConflictEvent	This event records a conflict of virtual machine BIOS UUIDs. That is, a virtual machine has been detected with a duplicate UUID (Universally Unique Identifier). When a VM is cloned, its UUID is also cloned and will remain with the same UUID until 2 VMs with the same UUID are powered on. Only when the VM is running is the uniqueness of UUIDs assured. When the hypervisor detects a VM powering up has a duplicate UUID it will change it and issue this event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUuidConflictEvent.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmWwnAssignedEvent	This event records the assignment of a new WWN (World Wide Name) to a virtual machine.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmWwnAssignedEvent.html
VmWwnChangedEvent	This event records a change in a virtual machine's WWN (World Wide Name).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmWwnChangedEvent.html
VmWwnConflictEvent	This event records a conflict of virtual machine WWNs (World Wide Name).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmWwnConflictEvent.html
vprob.net.connectivity.lost	Lost network connectivity.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.connectivity.lost.html
vprob.net.e1000.tso6.notsupported	No IPv6TSO support.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.e1000.tso6.notsupported.html
vprob.net.migrate.bindtovmk	Invalid vmknic specified in /Migrate/Vmknic.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.migrate.bindtovmk.html
vprob.net.proxyswitch.port.unavailable	VNic connect to switch failed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.proxyswitch.port.unavailable.html
vprob.net.redundancy.degraded	Network redundancy degraded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.redundancy.degraded.html
vprob.net.redundancy.lost	Lost network redundancy.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.redundancy.lost.html
vprob.storage.connectivity.lost	Lost storage connectivity.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.storage.connectivity.lost.html

Table 20-3. VmFailedToShutdownGuestEvent (Continued)

Name	Description	Available Since	vCenter Reference
vprob.storage.redundancy.degraded	Degraded storage path redundancy/	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.storage.redundancy.degraded.html
vprob.storage.redundancy.lost	Lost storage path redundancy	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.storage.redundancy.lost.html
vprob.vmfs.heartbeat.recovered	VMFS volume connectivity restored.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.heartbeat.recovered.html
vprob.vmfs.heartbeat.timedout	VMFS volume connectivity degraded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.heartbeat.timedout.html
vprob.vmfs.heartbeat.unrecoverable	VMFS volume connectivity lost.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.heartbeat.unrecoverable.html
vprob.vmfs.journal.createfailed	No space to create VMFS journal.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.journal.createfailed.html
vprob.vmfs.lock.corruptondisk	VMFS lock corruption detected.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.lock.corruptondisk.html

AccountCreatedEvent

This topic provides information about events surrounding the AccountCreatedEvent.

Table 20-4. AccountCreatedEvent

Name	Description	Available Since	vCenter Reference
AccountCreatedEvent	This event records that an account was created on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AccountCreatedEvent.html
AccountRemovedEvent	This event records that an account was removed from a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AccountRemovedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
AccountUpdatedEvent	This event records that an account was updated on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AccountUpdatedEvent.html
AdminPasswordNotChangedEvent	Default password for the Admin user on the host has not been changed.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AdminPasswordNotChangedEvent.html
AlarmActionTriggeredEvent	This event records that an alarm was triggered.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmActionTriggeredEvent.html
AlarmCreatedEvent	This event records the creation of an alarm.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmCreatedEvent.html
AlarmEmailCompletedEvent	This event records the completion of an alarm email notification.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmEmailCompletedEvent.html
AlarmEmailFailedEvent	This event records a failure to complete an alarm email notification.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmEmailFailedEvent.html
AlarmReconfiguredEvent	This event records the reconfiguration of an alarm.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmReconfiguredEvent.html
AlarmRemovedEvent	This event records the removal of an alarm.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmRemovedEvent.html
AlarmScriptCompletedEvent	This event records the completion of an alarm-triggered script.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmScriptCompleteEvent.html
AlarmScriptFailedEvent	This event records a failure to complete an alarm-triggered script.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmScriptFailedEvent.html
AlarmSnmpCompletedEvent	This event records the completion of an alarm SNMP notification.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmSnmpCompletedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
AlarmSnmpFailedEvent	This event records a failure to complete an alarm SNMP notification.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmSnmpFailedEvent.html
AlarmStatusChangedEvent	This event records that an entity (such as a host or VM) has changed its overall status because an alarm was triggered. The event will show which entity and will indicate which alarm was triggered. A host's or VM's alarm status changing from "green"/"yellow"/"red" to "gray" may indicate that the host or VM has been shutdown. If the alarm status is "yellow" or "red" then the icons in the VI Client will change (see the host and VM samples below).	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlarmStatusChangedevent.html
AllVirtualMachinesLicensedEvent	This event records that the previously unlicensed virtual machines on the specified host are now licensed. After this event is entered into the event log, we expect to see that the configuration issue removed from the host managed object.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AllVirtualMachinesLicensedevent.html
AlreadyAuthenticatedSessionEvent	This event records a failed user logon due to the user already being logged on.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.AlreadyAuthenticatedSessionEvent.html
BadUsernameSessionEvent	This event records a failed user logon. Failed logons are due to no match existing between the provided user name and password combination and the combinations stored for authentication.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.BadUsernameSessionEvent.html
CanceledHostOperationEvent	An operation performed on the host was canceled. Typically, a previous event in the sequence of events contains more information about the cause of this cancellation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CanceledHostOperationEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
ClusterComplianceCheckedEvent	This event records that a compliance check was triggered on the cluster.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterComplianceCheckedEvent.html
ClusterCreatedEvent	This event records when a cluster is created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterCreatedEvent.html
ClusterDestroyedEvent	This event records when a cluster is destroyed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterDestroyedEvent.html
ClusterOvercommittedEvent	This event records when a cluster's host capacity cannot satisfy resource configuration constraints.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterOvercommittedEvent.html
ClusterReconfiguredEvent	This event records when a cluster is reconfigured.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterReconfiguredEvent.html
ClusterStatusChangedEvent	This event records when a cluster's overall status changed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ClusterStatusChangedEvent.html
com.vmware.license.AddLicenseEvent	Licensed event.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.AddLicenseEvent.html
com.vmware.license.AssignLicenseEvent	Assigned event.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.AssignLicenseEvent.html
com.vmware.license.LicenseAssignFailedEvent	License assignment faults	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.LicenseAssignFailedEvent.html
com.vmware.license.LicenseExpiryEvent	License expired.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.LicenseExpiryEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
com.vmware.license.RemoveLicenseEvent	Removed license.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.RemoveLicenseEvent.html
com.vmware.license.UnassignLicenseEvent	Unassigned license.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.license.UnassignLicenseEvent.html
com.vmware.vc.cim.CIMGroupHealthStateChanged	Hardware health changed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.com.vmware.vc.cim.CIMGroupHealthStateChanged.html
CustomFieldDefAddedEvent	This event records the addition of a custom field definition.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefAddedEvent.html
CustomFieldDefEvent	This event records a custom field definition event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefEvent.html
CustomFieldDefRemovedEvent	This event records the removal of a custom field definition.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefRemovedEvent.html
CustomFieldDefRenamedEvent	This event records the renaming of a custom field definition.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldDefRenamedEvent.html
CustomFieldValueChangedEvent	This event records a change to a custom field value for a particular entity.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomFieldValueChangedEvent.html
CustomizationFailed	The customization sequence completed unsuccessfully in the guest.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationFailed.html
CustomizationLinuxIdentityFailedEvent	Failed to set Linux identity. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationLinuxIdentityFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
CustomizationNetworkSetupFailedEvent	Network setup failed in the guest during customization. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationNetworkSetupFailedEvent.html
CustomizationStartedEvent	The customization sequence has started in the VM guest.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationStartedEvent.html
CustomizationSucceeded	The customization sequence completed successfully in the guest.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationSucceeded.html
CustomizationSysPrepFailedEvent	Sysprep failed to run in the guest during customization. This will most likely have been caused by the fact that the wrong sysprep was used for the guest, so we include the version information in the event. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationSysprepFailedEvent.html
CustomizationUnknownFailureEvent	The customization sequence failed unexpectedly in the guest. Refer to the log file specified in the event message	N/A	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.CustomizationUnknownFailureEvent.html
DasAdmissionControlDisableEvent	This event records when admission control checks have been disabled in a HA cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAdmissionControlDisabledEvent.html
DasAdmissionControlEnableEvent	This event records when admission control checks have been enabled in a HA cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAdmissionControlEnabledEvent.html
DasAgentFoundEvent	This event records that vCenter has re-established contact with a primary host in this HA cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAgentFoundEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DasAgentUnavialableEvent	This event records that vCenter cannot contact any primary host in this HA cluster. HA designates some hosts as primary hosts in the HA cluster. When adding a new host to an existing cluster, HA needs to contact one of the primary hosts to finish the configuration. vCenter has lost contact with all primary nodes in the connected state. Attempts to configure HA on a host in this cluster will fail until a DasAgentFoundEvent is logged or unless this is the first node to be configured. For example, if all the other hosts are disconnected first.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasAgentUnavailableEvent.html
DasClusterIsolatedEvent	This event records that all hosts have been isolated from the network in a HA cluster.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasClusterIsolatedEvent.html
DasDisabledEvent	This event records when a cluster has been disabled for HA.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasDisableEvent.html
DasEnabledEvent	This event records when a cluster has been enabled for HA.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasEnabledEvent.html
DasHostFailedEvent	This event records when a host failure has been detected by HA.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasHostFailedEvent.html
DasHostIsolatedEvent	This event records that a host has been isolated from the network in a HA cluster. Since an isolated host cannot be distinguished from a failed host except by the isolated host itself, this event is logged when the isolated host regains network connectivity.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DasHostIsolatedEvent.html
DataCenterCreatedEvent	This event records when a datacenter object has been created.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatacenterCreatedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DataCenterRenamedEvent	This event is generated whenever a datacenter is renamed.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatacenterRenamedEvent.html
DatastoreIncreasedCapacityEvent	This event records when increase in a datastore's capacity is observed. It may happen due to different reasons, like extending or expanding a datastore.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreCapacityIncreasedEvent.html
DatastoreDestroyedEvent	This event records when a datastore is removed from vCenter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreDestroyedEvent.html
DatastoreDiscoveredEvent	This event records when a host is added to vCenter and datastores are discovered.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreDiscoveredEvent.html
DatastoreDuplicatedEvent	This event records when a duplicate datastore name is found. This event is used in vCenter 1.x and is included for backward compatibility.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreDuplicatedEvent.html
DatastoreFileCopiedEvent	This event records copy of a file or directory.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreFileCopiedEvent.html
DatastoreFileDeletedEvent	This event records deletion of a file or directory.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreFileDeletedEvent.html
DatastoreFileMovedEvent	This event records move of a file or directory.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreFileMovedEvent.html
DatastorePrincipalConfigured	This event records that a datastore principal was configured on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastorePrincipalConfigured.html
DatastoreRemovedOnHostEvent	This event records when a datastore is removed from a host but not from vCenter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreRemovedOnHostEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DatastoreRenamedEvent	This event records the renaming of a datastore.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreRenamedEvent.html
DatastoreRenamedOnHostEvent	This event records when a datastore is added to vCenter and is renamed by vCenter because this datastore already exists in vCenter with a different name, or because the name conflicts with another datastore in vCenter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DatastoreRenamedOnHostEvent.html
DrsDisabledEvent	This event records when DRS is disabled on a cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsDisabledEvent.html
DrsEnabledEvent	This event records when DRS is enabled on a cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsEnabledEvent.html
DrsEnteredStandbyModeEvent	This event records that the host has completely put into standby mode by Distributed Power Management. A host in this mode has no running virtual machines and no provisioning operations are occurring.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsEnteredStandbyModeEvent.html
DrsEnteringStandbyModeEvent	This event records that a host has begun the process of entering standby mode initiated by Distributed Power Management.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsEnteringStandbyModeEvent.html
DrsExitedStandbyModeEvent	This event records that Distributed Power Management has brought this host out of standby mode.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsExitedStandbyModeEvent.html
DrsExitingStandbyModeEvent	This event records that a host has begun the process of exiting standby mode initiated by Distributed Power Management.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsExitingStandbyModeEvent.html
DrsExitStandbyModeFailedEvent	This event records that Distributed Power Management tried to bring a host out from standby mode, but the host failed to exit standby mode.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsExitStandbyModeFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DrsInvocationFailedEvent	This event records DRS invocation failure.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsInvocationFailedEvent.html
DrsRecoveredFromFailureEvent	This event records that DRS has recovered from failure. It is triggered by a successful DRS invocation after repeated failure.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsRecoveredFromFailureEvent.html
DrsResourceConfigureFailedEvent	This event records when resource configuration specification synchronization fails on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsResourceConfigureFailedEvent.html
DrsResourceConfigureSyncedEvent	This event records when resource configuration specification returns to synchronized from previous failure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsResourceConfigureSyncedEvent.html
DrsVmMigratedEvent	This event records a virtual machine migration that was recommended by DRS.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsVmMigratedEvent.html
DrsVmPoweredOnEvent	This event records when a virtual machine is powered on by DRS.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DrsVmPoweredOnEvent.html
DuplicateIpDetectedEvent	This event records that a duplicate IP address has been observed in conflict with the vmotion or IP storage interface configured on the host.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DuplicateIpDetectedEvent.html
DVPortGroupCreatedEvent	Two distributed virtual portgroup was created.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortGroupCreatedEvent.html
DVPortGroupDestroyedEvent	Two distributed virtual portgroup was destroyed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortGroupDestroyedEvent.html
DVPortGroupReconfigured	Two distributed virtual portgroup was reconfigured.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortGroupReconfiguredEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DVPortGroupRenamedEvent	Two distributed virtual portgroup was renamed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DVPortGroupRenamedEvent.html
DvsCreatedEvent	A distributed virtual switch was created.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsCreatedEvent.html
DvsDestroyedEvent	A distributed virtual switch was destroyed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsDestroyedEvent.html
DvsEvent	These are dvs-related events.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsEvent.html
DvsHostBackInSyncEvent	The DVS configuration on the host was synchronized with that of the vCenter Server and the configuration is the same on the host and vCenter Server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostBackInSyncEvent.html
DvsHostJoinedEvent	A host joined the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostJoinedEvent.html
DvsHostLeftEvent	A host left the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostLeftEvent.html
DvsHostWentOutOfSyncEvent	The DVS configuration on the host diverged from that of the Virtual Center Server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsHostWentOutOfSyncEvent.html
DvsMergedEvent	Two distributed virtual switches was merged.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsMergedEvent.html
DvsPortBlockedEvent	A port is blocked in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortBlockedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DvsPortConnectedEvent	A port is connected in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortConnectedEvent.html
DvsPortCreatedEvent	New ports are created in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortCreatedEvent.html
DvsPortDeletedEvent	Existing ports are deleted in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortDeletedEvent.html
DvsPortDisconnectedEvent	A port is disconnected in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortDisconnectedEvent.html
DvsPortJoinPortGroupEvent	A port was moved into the distributed virtual portgroup.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortJoinPortgroupEvent.html
DvsPortLeavePortGroupEvent	A port was moved out of the distributed virtual portgroup.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortLeavePortgroupEvent.html
DvsPortLinkDownEvent	A port of which link status is changed to down in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortLinkDownEvent.html
DvsPortLinkEvent	A port of which link status is changed to up in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortLinkUpEvent.html
DvsPortReconfiguredEvent	Existing ports are reconfigured in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortReconfiguredEvent.html
DvsPortUnblockedEvent	A port is blocked in the distributed virtual switch.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsPortUnblockedEvent.html
DvsReconfiguredEvent	A distributed virtual switch was reconfigured.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsReconfiguredEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
DvsRenamedEvent	A distributed virtual switch was renamed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsRenamedEvent.html
DvsUpgradeAvailableEvent	An upgrade for the distributed virtual switch is available.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradeAvailableEvent.html
DvsUpgradedEvent	The distributed virtual switch was upgraded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradedEvent.html
DvsUpgradeInProgressEvent	An upgrade for the distributed virtual switch is in progress.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradeInProgressEvent.html
DvsUpgradeRejectedEvent	An upgrade for the distributed virtual switch is rejected.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.DvsUpgradeRejectedEvent.html
EnteredMaintenanceModeEvent	This event records that the host has completely entered maintenance mode. A host in this mode has no running virtual machines and no provisioning operations are occurring.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteredMaintenanceModeEvent.html
EnteredStandbyModeEvent	This event records that the host has completely entered standby mode. A host in this mode has no running virtual machines and no provisioning operations are occurring.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteredStandbyModeEvent.html
EnteringMaintenanceModeEvent	This event records that a host has begun the process of entering maintenance mode. All virtual machine operations are blocked, except for the following: MigrateVM, PowerOffVM, SuspendVM, ShutdownGuest, StandbyGuest	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteringMaintenanceModeEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
EnteringStandbyModeEvent	This event records that a host has begun the process of entering standby mode. All virtual machine operations are blocked, except for the following: MigrateVM, PowerOffVM, SuspendVM, ShutdownGuest, StandbyGuest	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.EnteringStandbyModeEvent.html
ErrorUpgradeEvent	This event is a general error event from upgrade.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ErrorUpgradeEvent.html
ExitedStandbyModeEvent	This event records that the host is no longer in standby mode.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitedStandbyModeEvent.html
ExitingStandbyModeEvent	This event records that a host has begun the process of exiting standby mode.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitingStandbyModeEvent.html
ExitMaintenanceModeEvent	This event records that the host is no longer in maintenance mode.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitMaintenanceModeEvent.html
ExitStandbyModeFailedEvent	This event records that the host failed to exit standby mode.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ExitStandbyModeFailedEvent.html
FailoverLevelRestored	This event records that the amount of cluster resources has increased and is now sufficient to satisfy the configured HA failover level.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.FailoverLevelRestored.html
GeneralEvent	This is actually the base class for general events and should not be seen. The derived general events are the ones that will be generated. See VMware's documentation for the complete list of these events.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralEvent.html
GeneralHostErrorEvent	This event is the general error event for a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralHostErrorEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
GeneralHostInfoEvent	This event is the general information event for a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralHostInfoEvent.html
GeneralHostWarningEvent	This event is the general warning event for a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralHostWarningEvent.html
GeneralUserEvent	This event is the general user event type.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralUserEvent.html
GeneralVmErrorEvent	This event is the general error event for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmErrorEvent.html
GeneralVmInfoEvent	This event is the general information event for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmInfoEvent.html
GeneralVmWarningEvent	This event is the general warning event for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GeneralVmWarningEvent.html
GhostDvsProxySwitchDetectedEvent	This event records when vCenter server found DVS proxy switches on the host that don't match any DVS defined in vCenter.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GhostDvsProxySwitchDetectedEvent.html
GhostDvsProxySwitchRemovedEvent	This event records when the ghost DVS proxy switches (a.k.a host proxy switches that don't match any DVS defined in vCenter) were removed on the host.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GhostDvsProxySwitchRemovedEvent.html
GlobalMessageChangeEvent	This event records a change to the global message.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.GlobalMessageChangedEvent.html
HealthStatusChangedEvent	used to report change in health status of vCenter components.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HealthStatusChangedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostAddedEvent	This event records the addition of a host to vCenter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAddedEvent.html
HostAddFailedEvent	This event records that adding a host failed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAddFailedEvent.html
HostAdminDisableEvent	This event records that the permission on the host has been changed such that only the user account used for vCenter operation will have Administrator permission.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAdminDisableEvent.html
HostAdminEnableEvent	This event records that the administrator permission has been restored.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostAdminEnableEvent.html
HostCnxFailedAccountFailedEvent	This event records a failure to connect to a host due to a failure to set up a management account.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedAccountFailedEvent.html
HostCnxFailedAlreadyManagedEvent	This event records a failure to connect to a host due to the host being managed by a different vCenter server.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedAlreadyManagedEvent.html
HostCnxFailedBadCagentEvent	This event records a failure to connect to a host due to no response being received from the host agent.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedBadCagentEvent.html
HostCnxFailedBadUsernameEvent	This event records a failure to connect to a host due to an invalid user name and password combination.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedBadUsernameEvent.html
HostCnxFailedBadVersionEvent	This event records a failure to connect to a host due to an incompatible client version.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedBadVersionEvent.html
HostCnxFailedCagentUpgradeEvent	This event records a failure to connect to a host due to a conflict with an upgrade or installation of the host agent.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedCagentUpgradeEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostCnxFailedEvent	This event records a failure to connect to a host due to an unspecified condition.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedEvent.html
HostCnxFailedNetworkErrorEvent	This event records a failure to connect to a host due to a network error.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNetworkErrorEvent.html
HostCnxFailedNoAccessEvent	This event records a failure to connect to a host due to insufficient account privileges.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNoAccessEvent.html
HostCnxFailedNoConnectionEvent	This event records a failure to connect to a host due to a host not being present on the network.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNoConnectionEvent.html
HostCnxFailedNoLicenseEvent	This event records a failure to connect to a host due to a licensing issue.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNoLicenseEvent.html
HostCnxFailedNotFoundEvent	This event records a failure to connect to a host due to a failure to resolve the host name.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedNotFoundEvent.html
HostCnxFailedTimeoutEvent	This event records a failure to connect to a host due to a timeout on the connection attempt.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCnxFailedTimeoutEvent.html
HostComplianceCheckedEvent	This event records that a compliance check was triggered on the host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostComplianceCheckedEvent.html
HostCompliantEvent	This event records that host is in compliance.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostCompliantEvent.html
HostConfigAppliedEvent	This event records that a configuration was applied on a host.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostConfigAppliedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostConnectedEvent	This event records a successful host connection. After this event is generated, there will also be a VmConnectedEvent generated for each VM on the host, regardless of the VM's power state.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostConnectedEvent.html
HostConnectionLostEvent	This event records the (unexpected) loss of a host connection. This might occur if a ESX system was powered down, for example. After this event is generated, there will also be a VmDisconnectedEvent generated for each VM on the host, regardless of the VM's power state.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostConnectionLostEvent.html
HostDasDisabledEvent	This event records when HA has been disabled on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasDisabledEvent.html
HostDasDisablingEvent	This event records when HA is being disabled on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasDisablingEvent.html
HostDasEnabledEvent	This event records when HA has been enabled on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasEnabledEvent.html
HostDasEnablingEvent	This event records when HA has been enabled on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasEnablingEvent.html
HostDasErrorEvent	This event records when there is a HA error on a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasErrorEvent.html
HostDasOkEvent	This event records when HA on a host returns to normal after an error.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDasOkEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostDisconnectedEvent	This event records the completion of a user requested disconnect of a host. Following this event, there will be a VmDisconnectedEvent generated for each VM on the host, regardless of the VM's power state.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostDisconnectedEvent.html
HostEnableAdminFailedEvent	This event records the failure to restore some of the administrator's permissions.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostEnableAdminFailedEvent.html
HostExtraNetworksEvent	This event records the fact that a host has extra networks not used by other hosts for HA communication.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostExtraNetworksEvent.html
HostGetShortNameFailedEvent	This event records that hostname -s failed or returned a name containing '.'.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostGetShortNameFailedEvent.html
HostInventoryFullEvent	This event records if the inventory of hosts has reached the capacity of the current version of vCenter.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostInventoryFullEvent.html
HostInventoryUnreadableEvent	Event indicating that the virtual machine inventory file on the host is damaged or unreadable.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostInventoryUnreadableEvent.html
HostIpChangedEvent	This event records a change in host IP address.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIpChangedEvent.html
HostIpInconsistentEvent	This event records that the IP address resolution returned different addresses on the host. Please check your host's network configuration.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIpInconsistentEvent.html
HostIpToShortNameFailedEvent	This event records that the host's IP address could not be resolved to a short name.	Since VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIpToShortNameFailedEvent.html
HostIsolationPingFailedEvent	This event records that the isolation address could not be pinged. The default isolation address is the service console's default gateway.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostIsolationIpPingFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostLicenseExpiredEvent	This event records an expired host license.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostLicenseExpiredEvent.html
HostMissingNetworksEvent	This event records the fact that a host is missing networks that other hosts are using for HA communication.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostMissingNetworksEvent.html
HostMonitoringStateChangedEvent	This event records when host monitoring state has changed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostMonitoringStateChangedEvent.html
HostNoAvailableNetworksEvent	This event records the fact that a host does not have any available networks for HA communication.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNoAvailableNetworksEvent.html
HostNoHAEnabledPortGroupsEvent	This event records the fact that a host does not have any HA-enabled port groups.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNoHAEnabledPortGroupsEvent.html
HostNonCompliantEvent	This event records that host went out of compliance.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNonCompliantEvent.html
HostNoRedundantManagementNetworkEvent	This event records the fact that a host does not have a redundant management network. It is recommended that host management networks be configured with redundancy.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNoRedundantManagementNetworkEvent.html
HostNotInClusterEvent	This event records that the host is not a cluster member.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostNotInClusterEvent.html
HostOvercommittedEvent	This event records when a host's capacity cannot satisfy resource configuration constraints.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostOvercommittedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostPrimaryAgentNotShortNameEvent	This event records that the primary agent specified is not a short name. The name of the primary agent is usually stored as a short name. You should not normally see this error. Please check the network configurations of your hosts.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostPrimaryAgentNotShortNameEvent.html
HostProfileAppliedEvent	This event records that a Profile application was done on the host.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostProfileAppliedEvent.html
HostReconnectionFailedEvent	This event records a failed attempt to re-establish a host connection.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostReconnectionFailedEvent.html
HostRemovedEvent	This event records the removal of a host from vCenter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostRemovedEvent.html
HostShortNameInconsistentEvent	This event records that host name resolution returned different names on the host. Please check your host's network configuration and your DNS configuration. There may be duplicate entries.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostShortNameInconsistentEvent.html
HostShortNameToIpFailedEvent	This event records that host name resolution returned different names on the host. Please check your host's network configuration and your DNS configuration. There may be duplicate entries.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostShortNameToIpFailedEvent.html
HostShutdownEvent	This event records the shutdown of a host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostShutdownEvent.html
HostStatusChangedEvent	This event records when a host's overall status changed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostStatusChangedEvent.html
HostSyncFailedEvent	This event records a failure to sync up with the vCenter agent on the host.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostSyncFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
HostUpgradeFailedEvent	This event records a failure to connect to a host due to an installation or upgrade issue.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostUpgradeFailedEvent.html
HostUserWorldSwapNotEnabledEvent	This event records that the userworld swap is not enabled on the host. HA needs userworld swap to be configured on embedded ESX hosts to function.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostUserWorldSwapNotEnabledEvent.html
HostVnicConnectedToCustomizedDVPortEvent	This event records when some host vnics were reconfigured to use DVPorts with port level configuration, which might be different from the DVportgroup.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostVnicConnectedToCustomizedDVPortEvent.html
HostWwnChangedEvent	This event records a change in a host's WWN (World Wide Name).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostWwnChangedEvent.html
HostWwnConflictEvent	This event records a conflict of host WWNs (World Wide Name).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.HostWwnConflictEvent.html
IncorrectHostInformationEvent	This event records if the host did not provide the information needed to acquire the correct set of licenses.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.IncorrectHostInformationEvent.html
InfoUpgradeEvent	This event is a general information event from upgrade.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.InfoUpgradeEvent.html
InsufficientResourcesFailoverEvent	This event records that the cluster resources are insufficient to satisfy the configured HA failover level.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.InsufficientFailoverResourcesEvent.html
InvalidEditionEvent	This event records if the license edition is set to an invalid value.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.InvalidEditionEvent.html
LicenseExpiredEvent	This event records the expiration of a license.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseExpiredEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
LicenseNonCompliantEvent	This event records that the inventory is not license compliant.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseNonComplianceEvent.html
LicenseRestrictedEvent	This event records if the required licenses could not be reserved because of a restriction in the option file.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseRestrictedEvent.html
LicenseServerAvailableEvent	This event is reported if the LicenseServer was previously unreachable and is now reachable.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseServerAvailableEvent.html
LicenseServerUnavailableEvent	This event is reported if the LicenseServer becomes unreachable.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LicenseServerUnavailableEvent.html
LocalDatastoreCreatedEvent	This event records when a local datastore is created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LocalDatastoreCreatedEvent.html
LockerMisconfiguredEvent	Locker has not been configured properly. This event is fired when the datastore configured to back the locker does not exist or when connectivity to the datastore is lost.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LockerMisconfiguredEvent.html
LockerReconfiguredEvent	Locker has not been configured properly. This event is fired when the datastore configured to back the locker does not exist or when connectivity to the datastore is lost.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.LockerReconfiguredEvent.html
MigrationErrorEvent	A migration error occurred.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationErrorEvent.html
MigrationHostErrorEvent	This records a migration error that includes the destination host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationHostErrorEvent.html
MigrationHostWarningEvent	This records a migration warning that includes the destination host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationHostWarningEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
MigrationResourceErrorEvent	This records a migration error that includes both the destination host and resource pool.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationResourceErrorEvent.html
MigrationResourceWarningEvent	This records a migration warning that includes both the destination host and resource pool.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationResourceWarningEvent.html
MigrationWarningEvent	This records a migration warning.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.MigrationWarningEvent.html
NasDatastoreCreatedEvent	This event records when a NAS datastore is created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NASDatastoreCreatedEvent.html
NoAccessUserEvent	This event records a failed user logon due to insufficient access permission.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoAccessUserEvent.html
NoDatastoresConfiguredEvent	No datastores have been configured on the host.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoDatastoresConfiguredEvent.html
NoLicenseEvent	A NoLicenseEvent is reported if the required licenses could not be reserved. Each feature that is not fully licensed is reported.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoLicenseEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
NoMaintenanceModeDrsRecommendationForVM	This event records that DRS did not recommend a migration for a powered on virtual machine, even though its host is going into maintenance mode. DRS may not be able to recommend a migration for a virtual machine for reasons, include but not limited to: No other connected host is compatible with this virtual machine. None of the other compatible hosts have sufficient resources to satisfy the reservation requirements of this virtual machine. Moving to any other host would violate a DRS rule. For example, all other compatible hosts have some incompatible virtual machines running. DRS is disabled on this virtual machine. This virtual machine was still in the process of migrating into the host going into maintenance mode and was not considered by DRS. This virtual machine was in the process of migrating to another host when the host tried to enter maintenance mode.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NoMaintenanceModeDrsRecommendationForVM.html
NotEnoughResourcesToStartVmEvent	This event records when the HA does not find sufficient resources to failover a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.NotEnoughResourcesToStartVmEvent.html
OutOfSyncDvsHost	The list of hosts that have the DVS configuration on the host diverged from that of the vCenter Server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.OutOfSyncDvsHost.html
PermissionAddedEvent	This event records the creation of a permission.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.PermissionAddedEvent.html
PermissionRemovedEvent	This event records the removal of a permission.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.PermissionRemovedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
PermissionUpdatedEvent	This event records the update of a permission.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.PermissionUpdatedEvent.html
ProfileAssociatedEvent	This event records that a Profile was associated with a managed entity.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileAssociatedEvent.html
ProfileChangedEvent	This event records that the profile has been edited.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileChangedEvent.html
ProfileCreatedEvent	This event records that a Profile was created.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileCreatedEvent.html
ProfileDissociatedEvent	This event records that a Profile was dissociated from a managed entity.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileDissociatedEvent.html
ProfileEvent	This event records a Profile specific event.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileEvent.html
ProfileReferenceHostChangedEvent	This event records that the reference host associated with this profile has changed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileReferenceHostChangedEvent.html
ProfileRemovedEvent	This event records that a Profile was removed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ProfileRemovedEvent.html
ResourcePoolCreatedEvent	This event records when a new resource pool is created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolCreatedEvent.html
ResourcePoolDestroyedEvent	This event records when a resource pool is destroyed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolDestroyedEvent.html
ResourcePoolMovedEvent	This event records when a resource pool is moved.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolMovedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
ResourcePoolReconfiguredEvent	This event records when a resource pool configuration is changed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourcePoolReconfiguredEvent.html
ResourceViolatedEvent	This event records when a conflict with a resource pool's resource configuration is detected.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ResourceViolatedEvent.html
RoleAddedEvent	This event records the creation of a role.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.RoleAddedEvent.html
RoleRemovedEvent	This class records the removal of a role.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.RoleRemovedEvent.html
RoleUpdatedEvent	This event records the creation of a role.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.RoleUpdatedEvent.html
ScheduledTaskCompletedEvent	This event records the completion of a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskCompletedEvent.html
ScheduledTaskCreatedEvent	This event records the creation of a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskCreatedEvent.html
ScheduledTaskEmailCompletedEvent	This event records the sending of a notification via email for a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskEmailCompletedEvent.html
ScheduledTaskEmailFailedEvent	This event records the failure of an attempt to send a notification via email for a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskEmailFailedEvent.html
ScheduledTaskEvent	This event records the completion of a scheduled task. The name of the task is indicated.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskEvent.html
ScheduledTaskFailedEvent	This event records the failure of a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
ScheduledTaskReconfiguredEvent	This event records the reconfiguration of a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskReconfiguredEvent.html
ScheduledTaskRemovedEvent	This event records the removal of a scheduled task.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskRemovedEvent.html
ScheduledTaskStartedEvent	This event records when a scheduled task started.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ScheduledTaskStartedEvent.html
ServerLicenseExpiredEvent	This event records an expired vCenter server license.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ServerLicenseExpiredEvent.html
ServerStartedSessionEvent	This event records the starting of the vCenter server.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.ServerStartedSessionEvent.html
SessionTerminatedEvent	This event records the termination of a session.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.SessionTerminatedEvent.html
TaskEvent	This event records the completion of a manually triggered task. The name of the task is indicated.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TaskEvent.html
TaskTimeoutEvent	This event records when a task is cleaned up because of a timeout.	VI API 2.5	This event records when a task is cleaned up because of a timeout.
TemplateBeingUpgradedEvent	This event records the start of a template upgrade.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TemplateBeingUpgradedEvent.html
TemplateUpgradedEvent	This event records that the template upgrade succeeded.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TemplateUpgradedEvent.html
TemplateUpgradeFailedEvent	This event records that the template upgrade failed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TemplateUpgradeFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
TimedOutHostOperationEvent	This event indicates that an operation performed on the host timed out. Typically, a previous event in the sequence of events contains more information about the cause of the operation timing out.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.TimedOutHostOperationEvent.html
UnlicensedVirtualMachinesEvent	This event records that we have unlicensed virtual machines on the specified host. This can be both a Config issue and an entry in the event log.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UnlicensedVirtualMachinesEvent.html
UnlicensedVirtualMachinesFoundEvent	This event records that we discovered unlicensed virtual machines on the specified host. After this event is entered into the event log, we expect to see a corresponding UnlicensedVirtualMachinesEvent configIssue on the host.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UnlicensedVirtualMachinesFoundEvent.html
UpdatedAgentBeingRestartedEvent	This event records that the agent has been patched and will be restarted.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UpdatedAgentBeingRestartedEvent.html
UpgradeEvent	This event records that the agent has been patched and will be restarted.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UpgradeEvent.html
UserAssignedToGroup	This event records that a user account membership was added to a group.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserAssignedToGroup.html
UserLoginSessionEvent	This event records a user login. Because these are so prolific, they are ignored (by default) by the nworks VMware Collector.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserLoginSessionEvent.html
UserLogoutSessionEvent	This event records a user logout. Because these are so numerous, they are ignored (by default) by the nworks VMware Collector.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserLogoutSessionEvent.html
UserPasswordChanged	This event records that a user password changed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserPasswordChanged.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
UserUnassignedFromGroup	This event records that a user account membership was removed from a group.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserUnassignedFromGroup.html
UserUpgradeEvent	This event is a general user event from upgrade.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.UserUpgradeEvent.html
VcAgentUninstalledEvent	This event records when the vCenter agent on a host is uninstalled.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUninstalledEvent.html
VcAgentUninstallFailedEvent	This event records when the vCenter agent on a host failed to uninstall.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUninstallFailedEvent.html
VcAgentUpgradedEvent	This event records when the vCenter agent on a host upgraded.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUpgradedEvent.html
VcAgentUpgradeFailedEvent	This event records when the vCenter agent on a host failed to upgrade.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VcAgentUpgradeFailedEvent.html
VimAccountPasswordChangedEvent	Password for the Vin account user on the host has been changed. This is an account created by vCenter and used to manage the host.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VimAccountPasswordChangedEvent.html
VmAcquiredMksTicketEvent	This event records a user successfully acquiring an MKS ticket (i.e., a mouse-keyboard-screen connection ticket).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmAcquiredMksTicketEvent.html
VmAutoRenameEvent	This event records that a virtual machine was automatically renamed because of a name conflict.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmAutoRenameEvent.html
VmBeingClonedEvent	This event records a virtual machine being cloned.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingClonedEvent.html
VmBeingCreatedEvent	This event records a virtual machine being created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingCreatedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmBeingDeployedEvent	This event records a virtual machine being deployed from a template.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingDeployedEvent.html
VmBeingHotMigratedEvent	This event records that a virtual machine is being hot-migrated.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingHotMigratedEvent.html
VmBeingMigratedEvent	This event records that a virtual machine is being migrated.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingMigratedEvent.html
VmBeingRelocatedEvent	This event records that a virtual machine is being relocated.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmBeingRelocatedEvent.html
VmClonedEvent	This event records the completion of a virtual machine cloning operation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmClonedEvent.html
VmCloneFailedEvent	This event records a failure to clone a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmCloneFailedEvent.html
VmConfigMissingEvent	This event records if the configuration file can not be found.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmConfigMissingEvent.html
VmConnectedEvent	This event is generated by the VC for each VM on a host whenever the host is reconnected to the VC. One event per VM will be generated, regardless of the power state of the VM.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmConnectedEvent.html
VmCreatedEvent	This event records that a virtual machine was successfully created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmCreatedEvent.html
VmDasBeingResetEvent	This event records when a virtual machine is reset by HA VM Health Monitoring on hosts that do not support the create screenshot api or if the createscreenshot api fails.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasBeingResetEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmDasBeingResetWithScreenshotEvent	This event records when a virtual machine is reset by HA VM Health Monitoring on hosts that support the create screenshot api.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasBeingResetWithScreenshotEvent.html
VmDasResetFailedEvent	This event records when HA VM Health Monitoring fails to reset a virtual machine after failure.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasResetFailedEvent.html
VmDasUpdateErrorEvent	The event records that an error occurred when updating the HA agents with the current state of the virtual machine. If this occurs during a powerOn operation, the virtual machine will not be failed over in the event of a host failure. If it occurs during a powerOff, the virtual machine will be automatically powered on if the host it was last running on crashes.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasUpdateErrorEvent.html
VmDasUpdateOkEvent	This event records that HA agents have been updated with the current state of the virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDasUpdateOkEvent.html
VmDateRolledBackEvent	This event records when the vCenter server date rolled back.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDateRolledBackEvent.html
VmDeployedEvent	This event records the completion of a virtual machine deployment operation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDeployedEvent.html
VmDeployFailedEvent	This event records a failure to deploy from a template.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDeployFailedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmDisconnectedEvent	This event is generated by the VC for each VM on a host whenever the host becomes disconnected from the VC. One event per VM will be generated, regardless of the power state of the VM. "Disconnection" of the host includes both planned disconnections (indicated by HostDisconnectedEvent) and unplanned disconnections (indicated by HostConnectionLostEvent).	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.SinceVIAPID20.html
VmDiscoveredEvent	This event records a virtual machine discovery.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDiscoveredEvent.html
VmDiskFailedEvent	This event records a failure to create a virtual disk in a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmDiskFailedEvent.html
VmEmigratingEvent	This event records a virtual machine migration.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEmigratingEvent.html
VmEndRecordingEvent	This event indicates the end of a recording session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEndRecordingEvent.html
VmEndReplayingEvent	This event indicates the end of a replay session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEndReplayingEvent.html
VmEvent	This is a catch-all event for various VM events (the type of event is listed in the event). See VMware's documentation for the list of possible events.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmEvent.html
VmFailedMigrateEvent	This event records a failure to migrate a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedMigrateEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmFailedRelayoutEvent	This event records a specific failure to re-layout a virtual machine, such as a failure to access the disk. "Layout" refers to the reformatting of the data on the disk to match VMware's latest VMFS3 structure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedRelayoutEvent.html
VmFailedRelayoutOnVmfs2DatastoreEvent	This event records a failure to re-layout a virtual machine when the virtual machine still has disks on a VMFS2 volume. "Layout" refers to the reformatting of the data on the disk to match VMware's latest VMFS3 structure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedRelayoutOnVmfs2DatastoreEvent.html
VmFailedStartingSecondaryEvent	This event records vmotion failure when starting a secondary VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedStartingSecondaryEvent.html
VmFailedToPowerOffEvent	This event records a failure to power off a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToPowerOffEvent.html
VmFailedToPowerOnEvent	This event records a failure to power on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToPowerOnEvent.html
VmFailedToRebootGuestEvent	This event records a failure to reboot the guest on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToRebootGuestEvent.html
VmFailedToResetEvent	This event records a failure to reset a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToResetEvent.html
VmFailedToShutdownGuestEvent	This event records a failure to shut down the guest on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToShutdownGuestEvent.html
VmFailedToStandbyGuestEvent	This event records a failure to set the guest on a virtual machine to a standby state.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToStandbyGuestEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmFailedToSuspendEvent	This event records a failure to suspend a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedToSuspendEvent.html
VmFailedUpdatingSecondaryConfigEvent	This event records after a failover the new new primary failed to update the config of the secondary vm.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailedUpdatingSecondaryConfig.html
VmFailoverFailed	This event records when a virtual machine failover was unsuccessful.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFailoverFailed.html
VmFaultToleranceStateChangedEvent	This event records a fault tolerance state change. A default alarm will be triggered upon this event, which would change the vm state: the vm state is red if the newState is needSecondary; the vm state is yellow if the newState is disabled; the vm state is green if the newState is notConfigured, starting, enabled or running.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFaultToleranceStateChangedEvent.html
VmFaultToleranceTurnedOffEvent	This event records that all secondary virtual machines have been removed and fault tolerance protection turned off for this virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFaultToleranceTurnedOffEvent.html
VmFaultToleranceVmTerminatedEvent	This event records a secondary or primary VM is terminated. The reason could be : divergence, lost connection to secondary, partial hardware failure of secondary, or by user.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmFaultToleranceVmTerminatedEvent.html
VMFSDatastoreCreatedEvent	This event records when a VMFS datastore is created.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VMFSDatastoreCreatedEvent.html
VMFSDatastoreExpandedEvent	This event records when a datastore is expanded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VMFSDatastoreExpandedEvent.html

Table 20-4. AccountCreatedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VMFSDatastoreExtendedEvent	This event records when a datastore is extended.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VMFSDatastoreExtendedEvent.html
VmGuestRebootEvent	This is a virtual machine guest reboot request event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmGuestRebootEvent.html
VmGuestShutdownEvent	This is a virtual machine guest shutdown request event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmGuestShutdownEvent.html
VmGuestStandbyEvent	This is a virtual machine guest standby request event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmGuestStandbyEvent.html
VmHealthMonitoringStateChangeEvent	This event records when host monitoring state has changed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmHealthMonitoringStateChangedEvent.html
VmInstanceUuidAssignedEvent	This event records the assignment of a new instance UUID to a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmInstanceUuidAssignedEvent.html

VmInstanceUuidChangedEvent

This section provides information about the VmInstanceUuidChangedEvent, as well as other events.

Table 20-5. VmInstanceUuidChangedEvent

Name	Description	Available Since	vCenter Reference
VmInstanceUuidChangedEvent	This event records a change in a virtual machine's instance UUID.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmInstanceUuidChangedEvent.html
VmInstanceUuidConflictEvent	This event records a conflict of virtual machine instance UUIDs.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmInstanceUuidConflictEvent.html
VmMacAssignedEvent	This event records the assignment of a new MAC address to a virtual network adapter.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMacAssignedEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmMacChangedEvent	This event records a change in a virtual machine's MAC address.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMacChangedEvent.html
VmMacConflictEvent	This event records a MAC address conflict for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMacConflictEvent.html
VmMaxFTRestartCountReached	This event is fired when FT VM reached the max restart count.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMaxFTRestartCountReached.html
VmMaxRestartCountReached	This event is fired when the VM reached the max restart count.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMaxRestartCountReached.html
VmMessageErrorEvent	This event records when an error message (consisting of a collection of "observations") is thrown by the virtual machine. This is a generic event for such messages.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMessageErrorEvent.html
VmMessageEvent	This event records when a message is thrown by the virtual machine. This is a generic event for such messages.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMessageEvent.html
VmMessageWarningEvent	This event records when a warning message (consisting of a collection of "observations") is thrown by the virtual machine. This is a generic event for such messages.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMessageWarningEvent.html
VmMigratedEvent	This event records a virtual machine migration.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmMigratedEvent.html
VmNoCompatibleHostForSecondaryEvent	This event records that no compatible host was found to place a secondary VM. A default alarm will be triggered upon this event, which by default would trigger a SNMP trap.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmNoCompatibleHostForSecondaryEvent.html
VmNoNetworkAccessEvent	This event records a migration failure when the destination host is not on the same network as the source host.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmNoNetworkAccessEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmOrphanedEvent	This event records a virtual machine for which no host is responsible.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmOrphanedEvent.html
VMotionLicenseExpiredEvent	This event records an expired VMotion license.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VMotionLicenseExpiredEvent.html
VmPoweredOffEvent	This event records when a virtual machine finished powering off.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPoweredOffEvent.html
VmPoweredOnEvent	This event records when a virtual machine finished powering on.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPoweredOnEvent.html
VmPoweringOnWithCustomizedDVPortEvent	This event records when a virtual machine was powering on using DVPorts with port level configuration, which might be different from the DVportgroup.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPoweringOnWithCustomizedDVPortEvent.html
VmPowerOffOnIsolationEvent	This event records when a virtual machine has been powered off on an isolated host in a HA cluster.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPowerOffOnIsolationEvent.html
VmPrimaryFailoverEvent	This event records an fault tolerance failover. The reason could be : lost connection to primary, partial hardware failure of primary or by user.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmPrimaryFailoverEvent.html
VmReconfiguredEvent	This event records a reconfiguration of the virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmReconfiguredEvent.html
VmRegisteredEvent	This event records that a virtual machine was successfully registered.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRegisteredEvent.html
VmRelayoutSuccessfulEvent	This event records that a virtual machine was successfully converted to the new virtual machine format on a VMFS3 volume.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelayoutSuccessfulEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmRelayoutUpToDateEvent	This event records that a virtual machine is already in the correct format. No re-layout is necessary. "Layout" refers to the reformatting of the data on the disk to match VMware's latest VMFS3 structure.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelayoutUpToDateEvent.html
VmRelocatedEvent	This event records the completion of a virtual machine relocation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelocatedEvent.html
VmRelocateFailedEvent	This event records a failure to relocate a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRelocateFailedEvent.html
VmRemoteConsoleConnectedEvent	This event records that a remote console was connected to the VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRemoteConsoleConnectedEvent.html
VmRemoteConsoleDisconnectedEvent	This event records that a remote console was disconnected from the VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRemoteConsoleDisconnectedEvent.html
VmRemovedEvent	This event records a virtual machine removed from vCenter management.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRemovedEvent.html
VmRenamedEvent	This event records the renaming of a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRenamedEvent.html
VmResettingEvent	This event records a virtual machine resetting.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResettingEvent.html
VmResourcePoolMovedEvent	This event records when a virtual machine is moved from one resource pool to another.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResourcePoolMovedEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmResourceReallocatedEvent	This event records a change in resource allocation of a virtual machine. The name of the virtual machine is in the event. This event is generated typically in DRS configurations when VC detects that the available resources (such as CPU) are changing.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResourceReallocatedEvent.html
VmRestartedOnAlternateHostEvent	This event records that the virtual machine was restarted on a host, since its original host had failed.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmRestartedOnAlternateHostEvent.html
VmResumingEvent	This event records a virtual machine resuming.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmResumingEvent.html
VmSecondaryAddedEvent	This event records a secondary VM is added.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryAddedEvent.html
VmSecondaryDisabledBySystemEvent	This event records that a fault tolerance secondary VM has been disabled by vCenter because the VM could not be powered on.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryDisabledBySystemEvent.html
VmSecondaryDisabledEvent	This event records a secondary VM is disabled.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryDisabledEvent.html
VmSecondaryEnabledEvent	This event records a secondary VM is enabled.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryEnabledEvent.html
VmSecondaryStartedEvent	This event records a secondary VM is started successfully.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSecondaryStartedEvent.html
VmShutdownOnIsolationEvent	This event records when a virtual machine has been shut down on an isolated host in a HA cluster.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmShutdownOnIsolationEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmStartingEvent	This event records a virtual machine powering on. It typically will be followed by a VmPoweredOnEvent.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartingEvent.html
VmStartingSecondaryEvent	This event records a vmotion to start a secondary VM.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartingSecondaryEvent.html
VmStartRecordingEvent	This event indicates the start of a recording session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartRecordingEvent.html
VmStartReplayingEvent	This event indicates the start of a replay session on a virtual machine.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStartReplayingEvent.html
VmStaticMacConflictEvent	This event records a static MAC address conflict for a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStaticMacConflictEvent.html
VmStoppingEvent	This event records a virtual machine stopping.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmStoppingEvent.html
VmSuspendedEvent	This event records when a virtual machine finished suspending.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSuspendedEvent.html
VmSuspendingEvent	This event records a virtual machine suspending.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmSuspendingEvent.html
VmTimedoutStartingSecondaryEvent	This event records timeout when starting a secondary VM. A default alarm will be triggered upon this event, which by default would trigger a SNMP trap.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmTimedoutStartingSecondaryEvent.html
VmUnsupportedStartingEvent	This event records when an unsupported guest is powering on.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUnsupportedStartingEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmUpgradeCompleteEvent	This event records the successful completion of an upgrade operation.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUpgradeCompleteEvent.html
VmUpgradeFailedEvent	This event records a failure to upgrade virtual hardware.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUpgradeFailedEvent.html
VmUpgradingEvent	This event records the process of upgrading the virtual hardware on a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUpgradingEvent.html
VmUuidAssignedEvent	This event records the assignment of a new BIOS UUID to a virtual machine.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUuidAssignedEvent.html
VmUuidChangedEvent	This event records a change in a virtual machine's BIOS UUID. nworks has observed that during migrations this event may be generated even though the UUID is not changing. A sample event is included below (note that on this version of ESX the name of the VM is missing after the word "for", and the UUID is actually not changing). Changed BIOS UUID from 500e3054-23fd-6ff6-58a7-037500940891 to 500e3054-23fd-6ff6-58a7-037500940891 for on esx04.seattle.nworks.local in SEATTLE VmUuidChangedEvent	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUuidChangedEvent.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
VmUuidConflictEvent	This event records a conflict of virtual machine BIOS UUIDs. That is, a virtual machine has been detected with a duplicate UUID (Universally Unique Identifier). When a VM is cloned, its UUID is also clone and will remain with the same UUID until 2 VMs with the same UUID are powered on. Only when the VM is running is the uniqueness of UUIDs assured. When the hypervisor detects a VM powering up has a duplicate UUID it will change it and issue this event.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmUuidConflictEvent.html
VmWwnAssignedEvent	This event records the assignment of a new WWN (World Wide Name) to a virtual machine.	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmWwnAssignedEvent.html
VmWwnChangedEvent	This event records a change in a virtual machine's WWN (World Wide Name).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmWwnChangedEvent.html
VmWwnConflictEvent	This event records a conflict of virtual machine WWNs (World Wide Name).	VI API 2.5	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.VmWwnConflictEvent.html
vprob.net.connectivity.lost	Lost network connectivity	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.connectivity.lost.html
vprob.net.e1000.tso6.notsupported	No IPv6 TSO support	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.e1000.tso6.notsupported.html
vprob.net.migrate.bindtovmk	Invalid vmknic specified in /Migrate/Vmknic	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.migrate.bindtovmk.html
vprob.net.proxyswitch.port.unavailable	VNic connection to switch failed.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.proxyswitch.port.unavailable.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
vprob.net.redundancy.degraded	Network redundancy degraded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.redundancy.degraded.html
vprob.net.redundancy.lost	Lost network redundancy	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.net.redundancy.lost.html
vprob.storage.connectivity.lost	Lost storage connectivity.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.storage.connectivity.lost.html
vprob.storage.redundancy.degraded	Degraded storage path redundancy.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.storage.redundancy.degraded.html
vprob.storage.redundancy.lost	Lost storage path redundancy	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.storage.redundancy.lost.html
vprob.vmfs.heartbeat.recovered	VMFS volume connectivity restored.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.heartbeat.recovered.html
vprob.vmfs.heartbeat.timedout	VMFS volume connectivity degraded.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.heartbeat.timedout.html
vprob.vmfs.heartbeat.unrecoverable	VMFS volume connectivity lost.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.heartbeat.unrecoverable.html
vprob.vmfs.journal.createfailed	No space to create VMFS journal.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.journal.createfailed.html
vprob.vmfs.lock.corruptondisk	VMFS lock corruption detected.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.lock.corruptondisk.html

Table 20-5. VmInstanceUuidChangedEvent (Continued)

Name	Description	Available Since	vCenter Reference
vprob.vmfs.nfs.server.disconnect	Lost connection to NFS server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.nfs.server.disconnect.html
vprob.vmfs.nfs.server.restored	Restored connection to NFS server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.nfs.server.restored.html
vprob.vmfs.resource.corruptondisk	VMFS resource corruption detected.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.resource.corruptondisk.html
vprob.vmfs.volume.locked	VMFS locked by remote host.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.volume.locked.html
WarningUpgradeEvent	This event is a general warning event from upgrade.	VI API 2.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.WarningUpgradeEvent.html
vprob.vmfs.nfs.server.disconnect	Lost connection to NFS server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.nfs.server.disconnect.html
vprob.vmfs.nfs.server.restored	Restored connection to NFS server.	VI API 4.0	http://www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/vim.event.vprob.vmfs.nfs.server.restored.html

WebSphere MQ

This section details the configuration requirements for WebSphere MQ.

In Linux environments, the Hyperic plugin for monitoring WebSphere MQ requires that the `MQSeriesJava<version>.rpm` be installed on the platform.

The `LD_LIBRARY_PATH` environment variable must be defined. To specify it:

On Unix-like systems, set the `LD_LIBRARY_PATH` environment variable by running this command in a shell:

```
export LD_LIBRARY_PATH=/opt/mqm/java/lib:$LD_LIBRARY_PATH
```

On Windows, as the user under which the agent will run, define `LD_LIBRARY_PATH` as an environment variable using:

My Computer > Properties > Advanced > Environment Variables > New

This chapter includes the following topics:

- [“Installation Path,”](#) on page 451
- [“WebSphere MQ Metrics,”](#) on page 451

Installation Path

This section explains which installation paths vCenter Hyperic supports.

vCenter Hyperic supports the use of a default or a customized installation path.

WebSphere MQ Metrics

This section details the WebSphere MQ metrics.

- [WebSphere MQ QManager 6 Server](#) on page 451
This section details the WebSphere MQ QManager 6 server metrics.
- [WebSphere MQ QManager 7 Server](#) on page 456
This topic details the WebSphere MQ QManager 7 Server metrics.

WebSphere MQ QManager 6 Server

This section details the WebSphere MQ QManager 6 server metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Start, Stop, StopImmediately

Table 21-1. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
ConnectionCount	ConnectionCount	none	THROUGHPUT	true	5 min

Configuration Help

WebSphere MQ QManager 6 Process Service

This section details the WebSphere MQ QManager 6 Process service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Processes	NumProcesses	none	UTILIZATION	false	5 min
Memory Size	MemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	10 min
Cpu Usage	Usage	percentage	UTILIZATION	true	5 min

Configuration Help

WebSphere MQ QManager 6 Local Queue Service

This section details the WebSphere MQ QManager 6 Local Queue service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPut	InhibitPut	percentage	UTILIZATION	true	1 min
InhibitGet	InhibitGet	percentage	UTILIZATION	true	1 min
Current Depth	CurrentDepth	none	UTILIZATION	true	1 min
Open Input Count	OpenInputCount	none	UTILIZATION	false	1 min
Open Output Count	OpenOutputCount	none	UTILIZATION	false	1 min

Configuration Help**WebSphere MQ QManager 6 Remote Queue Service**

This topic details the WebSphere MQ QManager 6 Remote Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-4. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min

Configuration Help**WebSphere MQ QManager 6 Receiver Channel Service**

This topic details the WebSphere MQ QManager 6 Receiver Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 21-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
BuffersReceived	BuffersReceived	none	THROUGHPUT	false	10 min
BuffersReceived per Minute	BuffersReceived1m	none	THROUGHPUT	true	10 min
BuffersSent	BuffersSent	none	THROUGHPUT	false	10 min
BuffersSent per Minute	BuffersSent1m	none	THROUGHPUT	true	10 min
BytesReceived	BytesReceived	b	THROUGHPUT	false	10 min
BytesReceived per Minute	BytesReceived1m	b	THROUGHPUT	true	10 min

Table 21-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
BytesSent	BytesSent	b	THROUGHPUT	false	10 min
BytesSent per Minute	BytesSent1m	b	THROUGHPUT	true	10 min
Msgs	Msgs	none	THROUGHPUT	false	10 min
Msgs per Minute	Msgs1m	none	THROUGHPUT	true	10 min

Configuration Help**WebSphere MQ QManager 6 Sender Channel Service**

This topic details the WebSphere MQ QManager 6 Sender Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: ping, stop, start

Table 21-6. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
BuffersReceived	BuffersReceived	none	THROUGHPUT	false	10 min
BuffersReceived per Minute	BuffersReceived1m	none	THROUGHPUT	true	10 min
BuffersSent	BuffersSent	none	THROUGHPUT	false	10 min
BuffersSent per Minute	BuffersSent1m	none	THROUGHPUT	true	10 min
BytesReceived	BytesReceived	b	THROUGHPUT	false	10 min
BytesReceived per Minute	BytesReceived1m	b	THROUGHPUT	true	10 min
BytesSent	BytesSent	b	THROUGHPUT	false	10 min
BytesSent per Minute	BytesSent1m	b	THROUGHPUT	true	10 min
Msgs	Msgs	none	THROUGHPUT	false	10 min
Msgs per Minute	Msgs1m	none	THROUGHPUT	true	10 min

Configuration Help**WebSphere MQ QManager 6 System Queue Service**

This topic details the WebSphere MQ QManager 6 System Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-7. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPut	InhibitPut	percentage	UTILIZATION	true	1 min
InhibitGet	InhibitGet	percentage	UTILIZATION	true	1 min
Current Depth	CurrentDepth	none	UTILIZATION	true	1 min
Open Input Count	OpenInputCount	none	UTILIZATION	false	1 min
Open Output Count	OpenOutputCount	none	UTILIZATION	false	1 min

Configuration Help**WebSphere MQ QManager 6 Cluster Service**

This topic details the WebSphere MQ QManager 6 Cluster Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: refresh cluster, reset cluster, resume queue manager cluster, suspend queue manager cluster

Table 21-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min

Configuration Help**WebSphere MQ QManager 6 Channel Service**

This topic details the WebSphere MQ QManager 6 Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 21-9. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
BuffersReceived	BuffersReceived	none	THROUGHPUT	false	10 min
BuffersReceived per Minute	BuffersReceived1m	none	THROUGHPUT	true	10 min
BuffersSent	BuffersSent	none	THROUGHPUT	false	10 min
BuffersSent per Minute	BuffersSent1m	none	THROUGHPUT	true	10 min
BytesReceived	BytesReceived	b	THROUGHPUT	false	10 min
BytesReceived per Minute	BytesReceived1m	b	THROUGHPUT	true	10 min

Table 21-9. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
BytesSent	BytesSent	b	THROUGHPUT	false	10 min
BytesSent per Minute	BytesSent1m	b	THROUGHPUT	true	10 min
Msgs	Msgs	none	THROUGHPUT	false	10 min
Msgs per Minute	Msgs1m	none	THROUGHPUT	true	10 min

Configuration Help**WebSphere MQ QManager 6 Alias Queue Service**

This topic details the WebSphere MQ QManager 6 Alias Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-10. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPut	InhibitPut	percentage	UTILIZATION	true	1 min
InhibitGet	InhibitGet	percentage	UTILIZATION	true	1 min

Configuration Help**WebSphere MQ QManager 7 Server**

This topic details the WebSphere MQ QManager 7 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: Start, Stop, StopImmediately

Table 21-11. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
ConnectionCount	ConnectionCount	none	THROUGHPUT	true	5 min

Configuration Help**WebSphere MQ QManager 7 Sender Channel Service**

This topic details the WebSphere MQ QManager 7 Sender Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: ping, stop, start

Table 21-12. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
BuffersReceived	BuffersReceived	none	THROUGHPUT	false	10 min
BuffersReceived per Minute	BuffersReceived1m	none	THROUGHPUT	true	10 min
BuffersSent	BuffersSent	none	THROUGHPUT	false	10 min
BuffersSent per Minute	BuffersSent1m	none	THROUGHPUT	true	10 min
BytesReceived	BytesReceived	b	THROUGHPUT	false	10 min
BytesReceived per Minute	BytesReceived1m	b	THROUGHPUT	true	10 min
BytesSent	BytesSent	b	THROUGHPUT	false	10 min
BytesSent per Minute	BytesSent1m	b	THROUGHPUT	true	10 min
Msgs	Msgs	none	THROUGHPUT	false	10 min
Msgs per Minute	Msgs1m	none	THROUGHPUT	true	10 min

Configuration Help

WebSphere MQ QManager 7 Cluster Service

This topic details the WebSphere MQ QManager 7 Cluster Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: refresh cluster, reset cluster, resume queue manager cluster, suspend queue manager cluster

Table 21-13. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min

Configuration Help

WebSphere MQ QManager 7 Process Service

This topic details the WebSphere MQ QManager 7 Process Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-14. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Processes	NumProcesses	none	UTILIZATION	false	5 min
Memory Size	MemSize	B	UTILIZATION	false	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	false	10 min
Cpu Usage	Usage	percentage	UTILIZATION	true	5 min

Configuration Help**WebSphere MQ QManager 7 Receiver Channel Service**

This topic details the WebSphere MQ QManager 7 Receiver Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 21-15. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
BuffersReceived	BuffersReceived	none	THROUGHPUT	false	10 min
BuffersReceived per Minute	BuffersReceived1m	none	THROUGHPUT	true	10 min
BuffersSent	BuffersSent	none	THROUGHPUT	false	10 min
BuffersSent per Minute	BuffersSent1m	none	THROUGHPUT	true	10 min
BytesReceived	BytesReceived	b	THROUGHPUT	false	10 min
BytesReceived per Minute	BytesReceived1m	b	THROUGHPUT	true	10 min
BytesSent	BytesSent	b	THROUGHPUT	false	10 min
BytesSent per Minute	BytesSent1m	b	THROUGHPUT	true	10 min
Msgs	Msgs	none	THROUGHPUT	false	10 min
Msgs per Minute	Msgs1m	none	THROUGHPUT	true	10 min

Configuration Help**WebSphere MQ QManager 7 Local Queue Service**

This topic details the WebSphere MQ QManager 7 Local Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-16. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPut	InhibitPut	percentage	UTILIZATION	true	1 min
InhibitGet	InhibitGet	percentage	UTILIZATION	true	1 min
Current Depth	CurrentDepth	none	UTILIZATION	true	1 min
Open Input Count	OpenInputCount	none	UTILIZATION	false	1 min
Open Output Count	OpenOutputCount	none	UTILIZATION	false	1 min

Configuration Help**WebSphere MQ QManager 7 Remote Queue Service**

This topic details the WebSphere MQ QManager 7 Remote Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-17. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min

Configuration Help**WebSphere MQ QManager 7 System Queue Service**

This topic details the WebSphere MQ QManager 7 System Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-18. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPut	InhibitPut	percentage	UTILIZATION	true	1 min
InhibitGet	InhibitGet	percentage	UTILIZATION	true	1 min
Current Depth	CurrentDepth	none	UTILIZATION	true	1 min
Open Input Count	OpenInputCount	none	UTILIZATION	false	1 min
Open Output Count	OpenOutputCount	none	UTILIZATION	false	1 min

Configuration Help**WebSphere MQ QManager 7 Topic Service**

This topic details the WebSphere MQ QManager 7 Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-19. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPublications	InhibitPublications	percentage	UTILIZATION	true	1 min
InhibitSubscriptions	InhibitSubscriptions	percentage	UTILIZATION	true	1 min
PublishCount	PublishCount	none	UTILIZATION	true	1 min
SubscriptionCount	SubscriptionCount	none	UTILIZATION	true	1 min
NumberOfMessages	NumberOfMessages	none	UTILIZATION	true	1 min
NumberOfPublishes	NumberOfPublishes	none	UTILIZATION	true	1 min

Configuration Help**WebSphere MQ QManager 7 Channel Service**

This topic details the WebSphere MQ QManager 7 Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 21-20. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
BuffersReceived	BuffersReceived	none	THROUGHPUT	false	10 min
BuffersReceived per Minute	BuffersReceived1m	none	THROUGHPUT	true	10 min
BuffersSent	BuffersSent	none	THROUGHPUT	false	10 min
BuffersSent per Minute	BuffersSent1m	none	THROUGHPUT	true	10 min
BytesReceived	BytesReceived	b	THROUGHPUT	false	10 min
BytesReceived per Minute	BytesReceived1m	b	THROUGHPUT	true	10 min
BytesSent	BytesSent	b	THROUGHPUT	false	10 min
BytesSent per Minute	BytesSent1m	b	THROUGHPUT	true	10 min
Msgs	Msgs	none	THROUGHPUT	false	10 min
Msgs per Minute	Msgs1m	none	THROUGHPUT	true	10 min

Configuration Help**WebSphere MQ QManager 7 Alias Queue Service**

This topic details the WebSphere MQ QManager 7 Alias Queue Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 21-21. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	1 min
InhibitPut	InhibitPut	percentage	UTILIZATION	true	1 min
InhibitGet	InhibitGet	percentage	UTILIZATION	true	1 min

Configuration Help

This section provides information on WebSphere configuration and metrics.

Hyperic's WebSphere plugin manages WebSphere Administration Servers and managed WebSphere instances using WebSphere's Performance Monitoring Infrastructure (PMI). The WebSphere supported versions are 6.0, 6.1, and 7.0.

Plugin Limitations and Configuration Requirements

The plugin can manage multiple WebSphere instances on the same platform, but only instances of the same version. For instance, you use the plugin to manage multiple 6.0 instances, or multiple 6.1 instances, or multiple 7.0 instances. So, if you have instances of multiple versions running on the same platform you must configure the installation path of the version you wish to monitor.

Note that, at agent startup, the plugin must know the installation path for WebSphere in order to discover and manage server instances. This leads to another use case for configuring the WebSphere installation location. If it is possible that instances will not be up and running at agent startup, the plugin cannot itself determine the WebSphere installation path, so you must explicitly configure the installation path. Instructions are provided in [“WebSphere Configuration Instructions,”](#) on page 464.

- [WebSphere Resources and the Hyperic Inventory Model](#) on page 463
This section details the resource types that the WebSphere plugin manages.
- [WebSphere Configuration Instructions](#) on page 464
This section provides instructions to configure WebSphere.
- [WebSphere Management Functions](#) on page 465
This section defines the management functions that the WebSphere supports for each managed resource type.
- [WebSphere Metric Documentation](#) on page 467
This section details the WebSphere metrics.

WebSphere Resources and the Hyperic Inventory Model

This section details the resource types that the WebSphere plugin manages.

Table 22-1. WebSphere Resources and the Hyperic Inventory Model

Resource Type	Inventory Type	Notes
WebSphere Admin	server	WebSphere Administration Server.
WebSphere	server	A managed instance in the domain managed by the Administration Server.

Table 22-1. WebSphere Resources and the Hyperic Inventory Model (Continued)

Resource Type	Inventory Type	Notes
WebSphere Application	service	An enterprise application (J2EE application) running in a managed WebSphere instance.
WebSphere Connection Pool	service	A connection pool in a managed WebSphere instance.
WebSphere EJB	service	An EJB running in a managed WebSphere instance.
WebSphere Thread Pool	service	A thread pool in a managed WebSphere instance.
WebSphere Webapp	service	A web application running in a managed WebSphere instance.

WebSphere Configuration Instructions

This section provides instructions to configure WebSphere.

- [Step 1: Install and Configure Agent](#) on page 464
This section provides instructions to install and configure the vCenter Hyperic agent and the WebSphere agent.
- [Step 2: Configure Event Tracking Options](#) on page 465
This section explains how to configure event tracking options.
- [Step 3: Configure Alert Definitions](#) on page 465
This section explains how to configure alert definitions.

Step 1: Install and Configure Agent

This section provides instructions to install and configure the vCenter Hyperic agent and the WebSphere agent.

Perform these steps on each platform with WebSphere instances to be monitored.

Procedure

- 1 Configure the vCenter Hyperic agent to use the WebSphere JDK.
- 2 Define the `JAVA_HOME` as an environment variable.

Option	Description
Unix	% export JAVA_HOME=\${was.install.root}/java
Windows	My Computer > Properties > Advanced > Environment Variables > System Variables > New

3 Install Hyperic agent.

For agent installation instructions, to *Install an Agent-Only Package in Getting Started with vCenter Hyperic*.

- a If WebSphere Global Security is defined, install the agent under an account that has read-access to `WASinstallpath}/properties/ssl.client.props`. Make sure the following properties in `ssl.client.props` are specified correctly:

```
com.ibm.ssl.keyStore
com.ibm.ssl.keyStorePassword
com.ibm.ssl.trustStore
com.ibm.ssl.trustStorePassword
```

4 Configure WebSphere-related agent properties in `AgentHome/conf/agent.properties`.

Option	Description
<code>websphere.installpath</code>	This property is used to define the WebSphere installation path.
<code>websphere.useext</code>	For WebSphere 6.0 or 6.1 you must set this property to "true".

5 Start the agent.

The WebSphere instance should be discovered and appear in the Auto-Discovery portlet.

Step 2: Configure Event Tracking Options

This section explains how to configure event tracking options.

Procedure

- 1 You can disable, or tailor the log tracking configuration for Managed Servers. For information about the WebSphere plugin's log tracking functionality, see [“WebSphere Log Tracking,”](#) on page 466.
- 2 You can enable configuration tracking, or tailor the configuration tracking configuration. For information about the WebSphere plugin's configuration tracking functionality, see [“WebSphere Configuration Tracking,”](#) on page 466.

Step 3: Configure Alert Definitions

This section explains how to configure alert definitions.

Procedure

- ◆ Create alert definitions as desired for your WebSphere resources.

WebSphere Management Functions

This section defines the management functions that the WebSphere supports for each managed resource type.

- [WebSphere Auto-Discovery](#) on page 466
This topic explains WebSphere auto-discovery.
- [WebSphere Metric Collection](#) on page 466
This topic discusses metric collection for WebSphere.
- [WebSphere Control Functionality](#) on page 466
This section explains the WebSphere plugin control functionality for Administration Servers and Managed Servers.

- [WebSphere Log Tracking](#) on page 466

This section explains the WebSphere plugin tracking functionality for Managed Servers.

- [WebSphere Configuration Tracking](#) on page 466

This section explains the WebSphere plugin, event-based configuration tracking functionality.

WebSphere Auto-Discovery

This topic explains WebSphere auto-discovery.

The WebSphere plugin discovers Administration Servers using `WebSphereAdminDetector.java` and Managed Servers using `WebSphereDetector.java` by scanning the running process list.

Services are discovered via JMX, using type-specific collector classes - the plugin includes one class for each of the monitored service types.

WebSphere Metric Collection

This topic discusses metric collection for WebSphere.

The WebSphere plugin obtains metrics via JMX using an IBM WebSphere API. For metric listings, see [“WebSphere Metric Documentation,”](#) on page 467.

WebSphere Control Functionality

This section explains the WebSphere plugin control functionality for Administration Servers and Managed Servers.

The WebSphere plugin provides control functionality for Administration Servers and Managed Servers using `WebSphereControlPlugin.java`. The available control actions are stop and start; they are performed using WebSphere start and stop scripts.

WebSphere Log Tracking

This section explains the WebSphere plugin tracking functionality for Managed Servers.

The WebSphere plugin provides log tracking functionality for Managed Servers using `WebSphereTraceLogFileTrackPlugin`, which extends `LogFileTailPlugin`.

Log tracking is enabled by default.

The table below maps WebSphere log levels to Hyperic log levels:

Table 22-2. WebSphere Log Levels

WebSphere Log Levels	Hyperic Log Level
Warning Terminate Fatal	Error
Warning	Warning
Audit Informational	Info
Error Debug	Debug

WebSphere Configuration Tracking

This section explains the WebSphere plugin, event-based configuration tracking functionality.

The WebSphere plugin provides event-based configuration tracking functionality using `org.hyperic.hq.product.FileChangeTrackPlugin`.

Configuration tracking is disabled by default. The default filter is:

```
installedApps;true;.\.jar|.\.dll|.\.class|.\.pl|.\.py|.\.pyc|.\.cgi|.\.properties|.\.xml|.\.cfg|
.\.properties|.\.ini|.\.conf|.\.config|.\.props|.\.policy;config;true;.\.xml|.\.cfg|.\.propertie
s|.\.ini|.\.conf|.\.config|.\.props|.\.policy;properties;true;.\.xml|.\.cfg|.\.properties|.\.ini
|.\.conf|.\.config|.\.props|.\.policy|.*\key;}}
```

WebSphere Metric Documentation

This section details the WebSphere metrics.

- [WebSphere 6.0 Server](#) on page 467
This topic details WebSphere 6.0 Server metrics.
- [WebSphere 6.1 Server](#) on page 473
This topic details the WebSphere 6.1 Server metrics.
- [WebSphere 7.0 Server](#) on page 479
This topic details the WebSphere 7.0 Server metrics.
- [WebSphere Admin 6.0 Server](#) on page 484
This topic details the WebSphere Admin 6.0 Server metrics.
- [WebSphere Admin 6.1 Server](#) on page 486
This topic details the WebSphere Admin 6.1 Server metrics.
- [WebSphere Admin 7.0 Server](#) on page 487
This section details the WebSphere Admin 7.0 Server metrics.
- [Enable Webapp Response Time](#) on page 489
This topic provides instructions for enabling the webapp response time.

WebSphere 6.0 Server

This topic details WebSphere 6.0 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 22-3. Custom Properties Supported

Name	Description
javaVendor	Java Vendor
javaVersion	Java Version
version	WebSphere Version
pid	Process ID
cellName	Cell Name

Supported Control Actions: start, stop, restart

Table 22-4. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
JVM Total Memory	totalMemory	KB	UTILIZATION	false	5 min

Table 22-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JVM Free Memory	freeMemory	KB	UTILIZATION	false	5 min
JVM Used Memory	usedMemory	KB	UTILIZATION	true	5 min
Global Transactions Begun	globalTransBegun	none	THROUGHPUT	false	10 min
Global Transactions Begun per Minute	globalTransBegun1m	none	THROUGHPUT	false	10 min
Global Transactions Involved	globalTransInvolved	none	THROUGHPUT	false	5 min
Local Transactions Begun	localTransBegun	none	THROUGHPUT	false	10 min
Local Transactions Begun per Minute	localTransBegun1m	none	THROUGHPUT	false	10 min
Global Transactions Active	activeGlobalTransactions	none	THROUGHPUT	false	5 min
Local Transactions Active	activeLocalTrans	none	THROUGHPUT	false	5 min
Optimized Transactions	numOptimization	none	UTILIZATION	false	10 min
Optimized Transactions per Minute	numOptimization1m	none	UTILIZATION	false	10 min
Global Transactions Committed	globalTransCommitted	none	THROUGHPUT	false	10 min
Global Transactions Committed per Minute	globalTransCommitted1m	none	THROUGHPUT	true	10 min
Local Transactions Committed	localTransCommitted	none	THROUGHPUT	false	10 min
Local Transactions Committed per Minute	localTransCommitted1m	none	THROUGHPUT	false	10 min
Global Transactions Rolled Back	globalTransRolledBack	none	THROUGHPUT	false	10 min
Global Transactions Rolled Back per Minute	globalTransRolledBack1m	none	THROUGHPUT	true	10 min
Local Transactions Rolled Back	localTransRolledBack	none	THROUGHPUT	false	10 min
Local Transactions Rolled Back per Minute	localTransRolledBack1m	none	THROUGHPUT	false	10 min

Table 22-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Global Transactions Timed Out	globalTransTime out	none	THROUGHPUT	false	10 min
Global Transactions Timed Out per Minute	globalTransTime out1m	none	THROUGHPUT	false	10 min
Local Transactions Timed Out	localTransTime out	none	THROUGHPUT	false	10 min
Local Transactions Timed Out per Minute	localTransTime out1m	none	THROUGHPUT	false	10 min

Configuration Help

NOTE WebSphere 6.0 server types are configured via AutoDiscovery.

WebSphere 6.0 Application Service

This topic details the WebSphere 6.0 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: start, stop

Table 22-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

WebSphere 6.0 Connection Pool Service

This topic details the WebSphere 6.0 Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-6. Custom Properties Supported

Name	Description
implementationClassName	Implementation Class

Supported Control Actions: None

Table 22-7. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
JDBC Pool Number of Creates	numCreates	none	UTILIZATION	false	10 min
JDBC Pool Number of Creates per Minute	numCreates1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Destroys	numDestroys	none	UTILIZATION	false	10 min
JDBC Pool Number of Destroys per Minute	numDestroys1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Allocates	numAllocates	none	UTILIZATION	false	10 min
JDBC Pool Number of Allocates per Minute	numAllocates1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Returns	numReturns	none	UTILIZATION	false	10 min
JDBC Pool Number of Returns per Minute	numReturns1m	none	UTILIZATION	false	10 min
JDBC Pool Size	poolSize	none	UTILIZATION	true	5 min
Connection Pools	npools	none	UTILIZATION	true	5 min
JDBC Pool Concurrent Waiters	concurrentWaiters	none	UTILIZATION	true	5 min
JDBC Pool Number of Faults	faults	none	UTILIZATION	false	10 min
JDBC Pool Number of Faults per Minute	faults1m	none	UTILIZATION	false	10 min
JDBC Pool Prepared Statement Cache Discards	prepStmtCacheDiscards	none	UTILIZATION	false	10 min
JDBC Pool Prepared Statement Cache Discards per Minute	prepStmtCacheDiscards1m	none	UTILIZATION	false	10 min

Configuration Help**WebSphere 6.0 EJB Service**

This topic details WebSphere 6.0 EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 22-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**WebSphere 6.0 Thread Pool Service**

This topic details the WebSphere 6.0 Thread Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-9. Custom Properties Supported

Name	Description
minimumSize	Minimum Size
maximumSize	Maximum Size

Supported Control Actions: None

Table 22-10. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Thread Pool Creates	threadCreates	none	UTILIZATION	false	10 min
Thread Pool Creates per Minute	threadCreates1m	none	UTILIZATION	false	10 min
Thread Pool Destroys	threadDestroys	none	UTILIZATION	false	10 min
Thread Pool Destroys per Minute	threadDestroys1m	none	UTILIZATION	false	10 min
Thread Pool Active Threads	activeThreads	none	UTILIZATION	false	5 min
Thread Pool Size	poolSize	none	UTILIZATION	true	5 min

Configuration Help**WebSphere 6.0 Webapp Service**

This topic details the WebSphere 6.0 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 22-11. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Sessions Created	CreateCount	none	UTILIZATION	false	10 min
Sessions Created per Minute	CreateCount1m	none	UTILIZATION	false	10 min
Sessions Invalidated	InvalidateCount	none	UTILIZATION	false	10 min
Sessions Invalidated per Minute	InvalidateCount1m	none	UTILIZATION	false	10 min
Session Lifetime	LifeTime	ms	UTILIZATION	false	5 min
Active Sessions Accessed	ActiveCount	none	UTILIZATION	false	5 min
Current Live Sessions	LiveCount	none	UTILIZATION	true	5 min
Storage Full for New Sessions	NoRoomForNewSessionCount	none	UTILIZATION	false	10 min
Storage Full for New Sessions per Minute	NoRoomForNewSessionCount1m	none	UTILIZATION	false	10 min
Sessions Discarded from Cache	CacheDiscardCount	none	UTILIZATION	false	10 min
Sessions Discarded from Cache per Minute	CacheDiscardCount1m	none	UTILIZATION	false	10 min
Session External Readtime	ExternalReadTime	ms	UTILIZATION	false	5 min
Session External Readsize	ExternalReadSize	B	UTILIZATION	false	5 min
Session External Writetime	ExternalWriteTime	ms	UTILIZATION	false	5 min
Session External Writesize	ExternalWriteSize	B	UTILIZATION	false	5 min
Broken Sessions	AffinityBreakCount	none	UTILIZATION	false	5 min
Time from Last Session Activation	TimeSinceLastActivated	ms	UTILIZATION	false	5 min

Table 22-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Sessions Invalidated	TimeoutInvalidationCount	none	UTILIZATION	false	10 min
Sessions Invalidated per Minute	TimeoutInvalidationCount1m	none	UTILIZATION	false	10 min
Requests to Invalid Sessions	ActivateNonExistSessionCount	none	UTILIZATION	false	10 min
Requests to Invalid Sessions per Minute	ActivateNonExistSessionCount1m	none	UTILIZATION	false	10 min
Average Size of Session Object	SessionObjectSize	B	UTILIZATION	false	5 min

Configuration Help

WebSphere 6.1 Server

This topic details the WebSphere 6.1 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 22-12. Custom Properties Supported

Name	Description
javaVendor	Java Vendor
javaVersion	Java Version
version	WebSphere Version
pid	Process ID
cellName	Cell Name

Supported Control Actions: start, stop, restart

Table 22-13. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
JVM Total Memory	totalMemory	KB	UTILIZATION	false	5 min
JVM Free Memory	freeMemory	KB	UTILIZATION	false	5 min
JVM Used Memory	usedMemory	KB	UTILIZATION	true	5 min
Global Transactions Begun	globalTransBegun	none	THROUGHPUT	false	10 min
Global Transactions Begun per Minute	globalTransBegun1m	none	THROUGHPUT	false	10 min

Table 22-13. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Global Transactions Involved	globalTransInvolved	none	THROUGHPUT	false	5 min
Local Transactions Begun	localTransBegun	none	THROUGHPUT	false	10 min
Local Transactions Begun per Minute	localTransBegun1m	none	THROUGHPUT	false	10 min
Global Transactions Active	activeGlobalTransactions	none	THROUGHPUT	false	5 min
Local Transactions Active	activeLocalTransactions	none	THROUGHPUT	false	5 min
Optimized Transactions	numOptimization	none	UTILIZATION	false	10 min
Optimized Transactions per Minute	numOptimization1m	none	UTILIZATION	false	10 min
Global Transactions Committed	globalTransCommitted	none	THROUGHPUT	false	10 min
Global Transactions Committed per Minute	globalTransCommitted1m	none	THROUGHPUT	true	10 min
Local Transactions Committed	localTransCommitted	none	THROUGHPUT	false	10 min
Local Transactions Committed per Minute	localTransCommitted1m	none	THROUGHPUT	false	10 min
Global Transactions Rolled Back	globalTransRolledBack	none	THROUGHPUT	false	10 min
Global Transactions Rolled Back per Minute	globalTransRolledBack1m	none	THROUGHPUT	true	10 min
Local Transactions Rolled Back	localTransRolledBack	none	THROUGHPUT	false	10 min
Local Transactions Rolled Back per Minute	localTransRolledBack1m	none	THROUGHPUT	false	10 min
Global Transactions Timed Out	globalTransTimedOut	none	THROUGHPUT	false	10 min
Global Transactions Timed Out per Minute	globalTransTimedOut1m	none	THROUGHPUT	false	10 min

Table 22-13. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Local Transactions Timed Out	localTransTimeOut	none	THROUGHPUT	false	10 min
Local Transactions Timed Out per Minute	localTransTimeOut1m	none	THROUGHPUT	false	10 min

Configuration Help

NOTE WebSphere 6.1 server types are configured via AutoDiscovery.

WebSphere 6.1 Application Service

This topic details the WebSphere 6.1 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: start, stop

Table 22-14. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

WebSphere 6.1 Connection Pool Service

This topic details the WebSphere 6.1 Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-15. Custom Properties Supported

Name	Description
implementationClassName	Implementation Class

Supported Control Actions: None

Table 22-16. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
JDBC Pool Number of Creates	numCreates	none	UTILIZATION	false	10 min
JDBC Pool Number of Creates per Minute	numCreates1m	none	UTILIZATION	false	10 min

Table 22-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JDBC Pool Number of Destroys	numDestroys	none	UTILIZATION	false	10 min
JDBC Pool Number of Destroys per Minute	numDestroys1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Allocates	numAllocates	none	UTILIZATION	false	10 min
JDBC Pool Number of Allocates per Minute	numAllocates1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Returns	numReturns	none	UTILIZATION	false	10 min
JDBC Pool Number of Returns per Minute	numReturns1m	none	UTILIZATION	false	10 min
JDBC Pool Size	poolSize	none	UTILIZATION	true	5 min
Connection Pools	npools	none	UTILIZATION	true	5 min
JDBC Pool Concurrent Waiters	concurrentWaiters	none	UTILIZATION	true	5 min
JDBC Pool Number of Faults	faults	none	UTILIZATION	false	10 min
JDBC Pool Number of Faults per Minute	faults1m	none	UTILIZATION	false	10 min
JDBC Pool Prepared Statement Cache Discards	prepStmtCacheDiscards	none	UTILIZATION	false	10 min
JDBC Pool Prepared Statement Cache Discards per Minute	prepStmtCacheDiscards1m	none	UTILIZATION	false	10 min

Configuration Help**WebSphere 6.1 EJB Service**

This topic details the WebSphere 6.1 EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 22-17. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**WebSphere 6.1 Thread Pool Service**

This topic details the WebSphere 6.1 Thread Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-18. Custom Properties Supported

Name	Description
minimumSize	Minimum Size
maximumSize	Maximum Size

Supported Control Actions: None

Table 22-19. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Thread Pool Creates	threadCreates	none	UTILIZATION	false	10 min
Thread Pool Creates per Minute	threadCreates1m	none	UTILIZATION	false	10 min
Thread Pool Destroys	threadDestroys	none	UTILIZATION	false	10 min
Thread Pool Destroys per Minute	threadDestroys1m	none	UTILIZATION	false	10 min
Thread Pool Active Threads	activeThreads	none	UTILIZATION	false	5 min
Thread Pool Size	poolSize	none	UTILIZATION	true	5 min

Configuration Help**WebSphere 6.1 Webapp Service**

This topic details the WebSphere 6.1 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 22-20. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Sessions Created	CreateCount	none	UTILIZATION	false	10 min
Sessions Created per Minute	CreateCount1m	none	UTILIZATION	false	10 min
Sessions Invalidated	InvalidateCount	none	UTILIZATION	false	10 min
Sessions Invalidated per Minute	InvalidateCount1m	none	UTILIZATION	false	10 min
Session Lifetime	LifeTime	ms	UTILIZATION	false	5 min
Active Sessions Accessed	ActiveCount	none	UTILIZATION	false	5 min
Current Live Sessions	LiveCount	none	UTILIZATION	true	5 min
Storage Full for New Sessions	NoRoomForNewSessionCount	none	UTILIZATION	false	10 min
Storage Full for New Sessions per Minute	NoRoomForNewSessionCount1m	none	UTILIZATION	false	10 min
Sessions Discarded from Cache	CacheDiscardCount	none	UTILIZATION	false	10 min
Sessions Discarded from Cache per Minute	CacheDiscardCount1m	none	UTILIZATION	false	10 min
Session External Readtime	ExternalReadTime	ms	UTILIZATION	false	5 min
Session External Readsize	ExternalReadSize	B	UTILIZATION	false	5 min
Session External Writetime	ExternalWriteTime	ms	UTILIZATION	false	5 min
Session External Writesize	ExternalWriteSize	B	UTILIZATION	false	5 min
Broken Sessions	AffinityBreakCount	none	UTILIZATION	false	5 min
Time from Last Session Activation	TimeSinceLastActivated	ms	UTILIZATION	false	5 min
Sessions Invalidated	TimeoutInvalidationCount	none	UTILIZATION	false	10 min
Sessions Invalidated per Minute	TimeoutInvalidationCount1m	none	UTILIZATION	false	10 min
Requests to Invalidate Sessions	ActivateNonExistSessionCount	none	UTILIZATION	false	10 min

Table 22-20. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests to Invalid Sessions per Minute	ActivateNonExistSessionCount1m	none	UTILIZATION	false	10 min
Average Size of Session Object	SessionObjectSize	B	UTILIZATION	false	5 min

Configuration Help

WebSphere 7.0 Server

This topic details the WebSphere 7.0 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 22-21. Custom Properties Supported

Name	Description
javaVendor	Java Vendor
javaVersion	Java Version
version	WebSphere Version
pid	Process ID
cellName	Cell Name

Supported Control Actions: start, stop, restart

Table 22-22. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
JVM Total Memory	totalMemory	KB	UTILIZATION	false	5 min
JVM Free Memory	freeMemory	KB	UTILIZATION	false	5 min
JVM Used Memory	usedMemory	KB	UTILIZATION	true	5 min
Global Transactions Begun	globalTransBegun	none	THROUGHPUT	false	10 min
Global Transactions Begun per Minute	globalTransBegun1m	none	THROUGHPUT	false	10 min
Global Transactions Involved	globalTransInvolved	none	THROUGHPUT	false	5 min
Local Transactions Begun	localTransBegun	none	THROUGHPUT	false	10 min
Local Transactions Begun per Minute	localTransBegun1m	none	THROUGHPUT	false	10 min

Table 22-22. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Global Transactions Active	activeGlobalTransactions	none	THROUGHPUT	false	5 min
Local Transactions Active	activeLocalTransactions	none	THROUGHPUT	false	5 min
Optimized Transactions	numOptimization	none	UTILIZATION	false	10 min
Optimized Transactions per Minute	numOptimization1m	none	UTILIZATION	false	10 min
Global Transactions Committed	globalTransCommitted	none	THROUGHPUT	false	10 min
Global Transactions Committed per Minute	globalTransCommitted1m	none	THROUGHPUT	true	10 min
Local Transactions Committed	localTransCommitted	none	THROUGHPUT	false	10 min
Local Transactions Committed per Minute	localTransCommitted1m	none	THROUGHPUT	false	10 min
Global Transactions Rolled Back	globalTransRolledBack	none	THROUGHPUT	false	10 min
Global Transactions Rolled Back per Minute	globalTransRolledBack1m	none	THROUGHPUT	true	10 min
Local Transactions Rolled Back	localTransRolledBack	none	THROUGHPUT	false	10 min
Local Transactions Rolled Back per Minute	localTransRolledBack1m	none	THROUGHPUT	false	10 min
Global Transactions Timed Out	globalTransTimedOut	none	THROUGHPUT	false	10 min
Global Transactions Timed Out per Minute	globalTransTimedOut1m	none	THROUGHPUT	false	10 min
Local Transactions Timed Out	localTransTimedOut	none	THROUGHPUT	false	10 min
Local Transactions Timed Out per Minute	localTransTimedOut1m	none	THROUGHPUT	false	10 min

Configuration Help

NOTE WebSphere 7.0 server types are configured via AutoDiscovery.

WebSphere 7.0 Application Service

This topic details the WebSphere 7.0 Application Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: start, stop

Table 22-23. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

WebSphere 7.0 Connection Pool Service

This topic details the WebSphere 7.0 Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-24. Custom Properties Supported

Name	Description
implementationClassName	Implementation Class

Supported Control Actions: None

Table 22-25. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
JDBC Pool Number of Creates	numCreates	none	UTILIZATION	false	10 min
JDBC Pool Number of Creates per Minute	numCreates1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Destroys	numDestroys	none	UTILIZATION	false	10 min
JDBC Pool Number of Destroys per Minute	numDestroys1m	none	UTILIZATION	false	10 min
JDBC Pool Number of Allocates	numAllocates	none	UTILIZATION	false	10 min
JDBC Pool Number of Allocates per Minute	numAllocates1m	none	UTILIZATION	false	10 min

Table 22-25. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JDBC Pool Number of Returns	numReturns	none	UTILIZATION	false	10 min
JDBC Pool Number of Returns per Minute	numReturns1m	none	UTILIZATION	false	10 min
JDBC Pool Size	poolSize	none	UTILIZATION	true	5 min
Connection Pools	npools	none	UTILIZATION	true	5 min
JDBC Pool Concurrent Waiters	concurrentWaiters	none	UTILIZATION	true	5 min
JDBC Pool Number of Faults	faults	none	UTILIZATION	false	10 min
JDBC Pool Number of Faults per Minute	faults1m	none	UTILIZATION	false	10 min
JDBC Pool Prepared Statement Cache Discards	prepStmtCacheDiscards	none	UTILIZATION	false	10 min
JDBC Pool Prepared Statement Cache Discards per Minute	prepStmtCacheDiscards1m	none	UTILIZATION	false	10 min

Configuration Help**WebSphere 7.0 EJB Service**

This topic details the WebSphere 7.0 EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 22-26. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**WebSphere 7.0 Thread Pool Service**

This topic details the WebSphere 7.0 Thread Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-27. Custom Properties Supported

Name	Description
minimumSize	Minimum Size
maximumSize	Maximum Size

Supported Control Actions: None

Table 22-28. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Thread Pool Creates	threadCreates	none	UTILIZATION	false	10 min
Thread Pool Creates per Minute	threadCreates1m	none	UTILIZATION	false	10 min
Thread Pool Destroys	threadDestroys	none	UTILIZATION	false	10 min
Thread Pool Destroys per Minute	threadDestroys1m	none	UTILIZATION	false	10 min
Thread Pool Active Threads	activeThreads	none	UTILIZATION	false	5 min
Thread Pool Size	poolSize	none	UTILIZATION	true	5 min

Configuration Help

WebSphere 7.0 Webapp Service

This topic details the WebSphere 7.0 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 22-29. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Sessions Created	CreateCount	none	UTILIZATION	false	10 min
Sessions Created per Minute	CreateCount1m	none	UTILIZATION	false	10 min
Sessions Invalidated	InvalidateCount	none	UTILIZATION	false	10 min
Sessions Invalidated per Minute	InvalidateCount1m	none	UTILIZATION	false	10 min
Session Lifetime	LifeTime	ms	UTILIZATION	false	5 min
Active Sessions Accessed	ActiveCount	none	UTILIZATION	false	5 min

Table 22-29. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Current Live Sessions	LiveCount	none	UTILIZATION	true	5 min
Storage Full for New Sessions	NoRoomForNewSessionCount	none	UTILIZATION	false	10 min
Storage Full for New Sessions per Minute	NoRoomForNewSessionCount1m	none	UTILIZATION	false	10 min
Sessions Discarded from Cache	CacheDiscardCount	none	UTILIZATION	false	10 min
Sessions Discarded from Cache per Minute	CacheDiscardCount1m	none	UTILIZATION	false	10 min
Session External Readtime	ExternalReadTime	ms	UTILIZATION	false	5 min
Session External Readsiz	ExternalReadSize	B	UTILIZATION	false	5 min
Session External Writetime	ExternalWriteTime	ms	UTILIZATION	false	5 min
Session External Writesize	ExternalWriteSize	B	UTILIZATION	false	5 min
Broken Sessions	AffinityBreakCount	none	UTILIZATION	false	5 min
Time from Last Session Activation	TimeSinceLastActivated	ms	UTILIZATION	false	5 min
Sessions Invalidated	TimeoutInvalidationCount	none	UTILIZATION	false	10 min
Sessions Invalidated per Minute	TimeoutInvalidationCount1m	none	UTILIZATION	false	10 min
Requests to Invalid Sessions	ActivateNonExistSessionCount	none	UTILIZATION	false	10 min
Requests to Invalid Sessions per Minute	ActivateNonExistSessionCount1m	none	UTILIZATION	false	10 min
Average Size of Session Object	SessionObjectSize	B	UTILIZATION	false	5 min

Configuration Help**WebSphere Admin 6.0 Server**

This topic details the WebSphere Admin 6.0 Server metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-30. Custom Properties Supported

Name	Description
javaVendor	Java Vendor
javaVersion	Java Version
version	WebSphere Version
pid	Process ID
cellName	Cell Name

Supported Control Actions: start, stop, restart

Table 22-31. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
JVM Total Memory	totalMemory	KB	UTILIZATION	false	5 min
JVM Free Memory	freeMemory	KB	UTILIZATION	false	5 min
JVM Used Memory	usedMemory	KB	UTILIZATION	true	5 min
Number of JVMs	NumJVMs	none	UTILIZATION	true	5 min

Configuration Help

The Hyperic agent must be run using the IBM JDK to monitor WebSphere:

```
% export JAVA_HOME=${was.install.root}/java
% hq-agent.sh start
```

Add the following property definition to the `agent.properties` file for a Hyperic agent that will manage WebSphere 6.0: `websphere.useext=true`.

Enable WebSphere PMI

This sections explains how to enable the WebSphere PMI.

WebSphere 6.0 has PMI enabled at the Basic level by default, which is sufficient for vCenter Hyperic to collect the metrics enabled by default. The PMI level may need to be increased to collect certain metrics not enabled by default.

Procedure

- 1 Using a Web browser, open the administration view **Server > Application Servers->\${server.name} > Performance Monitoring Infrastructure**.
- 2 Check the **Startup** button.
- 3 Set level to **Basic** or higher.
- 4 Click **OK**.
- 5 Click **Save** to apply changes to the master configuration.
- 6 Restart server.

Global Security Configuration

This section details the property requirements for Global Security Configuration.

Procedure

- ◆ If Global Security is enabled, check that the user running the agent has read access to `{installpath}/properties/ssl.client.props` and that the following properties are correct:

```
com.ibm.ssl.keyStore=...
com.ibm.ssl.keyStorePassword=...
com.ibm.ssl.trustStore=...
com.ibm.ssl.trustStorePassword=...
```

WebSphere Admin 6.1 Server

This topic details the WebSphere Admin 6.1 Server metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-32. Custom Properties Supported

Name	Description
javaVendor	Java Vendor
javaVersion	Java Version
version	WebSphere Version
pid	Process ID
cellName	Cell Name

Supported Control Actions: start, stop, restart

Table 22-33. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
JVM Total Memory	totalMemory	KB	UTILIZATION	false	5 min
JVM Free Memory	freeMemory	KB	UTILIZATION	false	5 min
JVM Used Memory	usedMemory	KB	UTILIZATION	true	5 min
Number of JVMs	NumJVMs	none	UTILIZATION	true	5 min

Configuration Help

The Hyperic agent must be run using the IBM JDK to monitor WebSphere:

```
% export JAVA_HOME=${was.install.root}/java
% hq-agent.sh start
```

Add the following property definition to the `agent.properties` file for a Hyperic agent that will manage WebSphere 6.1: `websphere.useext=true`.

Enable WebSphere PMI

This sections explains how to enable the WebSphere PMI.

WebSphere 6.1 has PMI enabled at the Basic level by default, which is sufficient for vCenter Hyperic to collect the metrics enabled by default. The PMI level may need to be increased to collect certain metrics not enabled by default.

Procedure

- 1 Using a Web browser open the administration view: **Server > Application Servers->\${server.name} > Performance Monitoring Infrastructure.**
- 2 Check the **Startup** button.
- 3 Set level to **Basic** or higher.
- 4 Click **OK**.
- 5 Click **Save** to apply changes to the master configuration.
- 6 Restart server.

WebSphere 6.1 Global Security Configuration

This section details the property requirements for Global Security Configuration.

Procedure

- ◆ If Global Security is enabled, check that the user running the agent has read access to `{installpath}/properties/ssl.client.props` and that the following properties are correct:

```
com.ibm.ssl.keyStore=...
com.ibm.ssl.keyStorePassword=...
com.ibm.ssl.trustStore=...
com.ibm.ssl.trustStorePassword=...
```

WebSphere Admin 7.0 Server

This section details the WebSphere Admin 7.0 Server metrics.

Log Track Supported: No

Config Track Supported: No

Table 22-34. Custom Properties Supported

Name	Description
javaVendor	Java Vendor
javaVersion	Java Version
version	WebSphere Version
pid	Process ID
cellName	Cell Name

Supported Control Actions: start, stop, restart

Table 22-35. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
JVM Total Memory	totalMemory	KB	UTILIZATION	false	5 min
JVM Free Memory	freeMemory	KB	UTILIZATION	false	5 min
JVM Used Memory	usedMemory	KB	UTILIZATION	true	5 min
Number of JVMs	NumJVMs	none	UTILIZATION	true	5 min

Configuration Help

The vCenter Hyperic agent must be run using the IBM JDK to monitor WebSphere:

```
% export JAVA_HOME=${was.install.root}/java
% hq-agent.sh start
```

Add the following property definition to the `agent.properties` file for a vCenter Hyperic agent that will manage WebSphere 7.0: `websphere.useext=true`.

WebSphere Admin 7.0 Enable WebSphere PMI

This sections explains how to enable the WebSphere PMI.

WebSphere 7.0 has PMI enabled at the Basic level by default, which is sufficient for vCenter Hyperic to collect the metrics enabled by default. The PMI level may need to be increased to collect certain metrics not enabled by default.

Procedure

- 1 Using a Web browser open the administration view: **Server > Application Servers->\${server.name} > Performance Monitoring Infrastructure**.
- 2 Select the **Runtime** or **Configuration** tab.
- 3 Set level to **Basic** or higher.
- 4 Click **OK**.
- 5 Click **Save** to apply changes to the master configuration.
- 6 Restart server.

WebSphere Admin 7.0 Global Security Configuration

This section details the property requirements for Global Security Configuration.

Procedure

- ◆ If Global Security is enabled, check that the user running the agent has read access to `{installpath}/properties/ssl.client.props` and that the following properties are correct:

```
com.ibm.ssl.keyStore=...
com.ibm.ssl.keyStorePassword=...
com.ibm.ssl.trustStore=...
com.ibm.ssl.trustStorePassword=...
```


Enable Webapp Response Time

This topic provides instructions for enabling the webapp response time.

Procedure

- 1 In a text editor, edit the web.xml file located under `${installpath}/config/cells/${server.node}/applications/${app}.ear/deployments/${app}/${webapp}/WEB-INF/`.
- 2 Add the following snippet of XML just after the last `<context-param>` tag, and before the first `<servlet>` tag.

```
<!-- HYPERIC HQ RESPONSE TIME FILTER -->
<filter>
<filter-name>JMXFilter</filter-name>
<filter-class>org.hyperic.hq.product.servlet.filter.JMXFilter</filter-class>
<init-param>
<param-name>responseTimeLogDir</param-name>
<param-value>${installpath}/logs</param-value>
</init-param>
</filter>
<filter-mapping>
<filter-name>JMXFilter</filter-name>
<url-pattern>/*</url-pattern>
</filter-mapping>
<!-- END HYPERIC RESPONSE TIME FILTER -->
```

- 3 Add the filter jar using the following code:

```
% mkdir
  ${installpath}/installedApps/${server.node}/${app}.ear/${webapp}/
  WEB-INF/lib
% cp agent-${HQVersion}/product_connectors/servlet/libs/hq-filter.jar \
  ${installpath}/installedApps/${server.node}/${app}.ear/${webapp}/
  WEB-INF/lib
```

- 4 Restart the WebSphere server.

Example:

What to do next

This section provides general parameters for a JBoss server.

You cannot manage a JBoss server on the same machine as the vCenter Hyperic server.

JBoss 4.2 and later must run under Java 1.5 or later for vCenter Hyperic to be able to manage it.

The vCenter Hyperic agent can usually discover the location of JBoss. If the agent fails to discover a JBoss server, the following error occurs when you configure the server in vCenter Hyperic:

Invalid configuration: Plugin error: Plugin class not found:javax/management/MBeanException (invalid classpath or corrupt plugin jar)

If the error occurs:

- 1 Add the `jboss.installpath` property to the `agent.properties` file for the agent.
- 2 Restart the vCenter Hyperic agent.

- [JBoss Configuration Tracking](#) on page 491

This section explains configuration tracking for JBoss. Note that configuration tracking for JBoss is disabled by default.

- [JBoss Metrics](#) on page 492

This section details the JBoss metrics.

JBoss Configuration Tracking

This section explains configuration tracking for JBoss. Note that configuration tracking for JBoss is disabled by default.

In vCenter Hyperic 5.8, the JBoss plugin uses a plugin support class - `org.hyperic.hq.product.FileChangeTrackPlugin` - that enables more detailed change tracking than available in previous versions of vCenter Hyperic. This plugin tracks the change type ("add", "delete", "modify", or "rename") and the actual changes in text files.

For JBoss, the default value of the Configuration Files field, which specifies which files to track, is:

```
server/all/conf;true;.*\.*.xml|.*\.*.cfg|.*\.*.properties|.*\.*.ini|.*\.*.conf|.*\.*.config;;
server/default/conf;true;.*\.*.xml|.*\.*.cfg|.*\.*.properties|.*\.*.ini|.*\.*.conf|
.*\.*.config;;server/default/deploy;true;.*\.*.jar|.*\.*.dll|.*\.*.class|.*\.*.jsp|.*\.*.asp|
.*\.*.aspx|.*\.*.php|.*\.*.pl|.*\.*.vb|.*\.*.vbs|.*\.*.js|.*\.*.py|.*\.*.pyc|.*\.*.cgi|.*\.*.xml|.*\.*.cfg|
.*\.*.properties|.*\.*.ini|.*\.*.conf|.*\.*.config;server/minimal/conf;true;.*\.*.xml|.*\.*.cfg|
.*\.*.properties|.*\.*.ini|.*\.*.conf|.*\.*.config;server/standard/conf;true;.*\.*.xml|
.*\.*.cfg|.*\.*.properties|.*\.*.ini|.*\.*.conf|.*\.*.config;server/web/conf;true;.*\.*.xml|
.*\.*.cfg|.*\.*.properties|.*\.*.ini|.*\.*.conf|.*\.*.config;;false;jar-versions.xml;;
configuration/;false;.*\.*.xml|.*\.*.properties
```

When configuration tracking is enabled, this filter causes vCenter Hyperic to track files:

- In any directory in the JBossHome/server/all/conf directory and any directories below it, files with the following extensions: .xml, .cfg, .properties, .ini, .conf, .config.
- In any directory in the JBossHome/server/default/conf directory and any directories below it, files with the following extensions: .xml, .cfg, .properties, .ini, .conf, .config.
- In any directory in the JBossHome/server/default/deploy directory and any directories below it, files with the following extensions: .jar, .dll, .class, .jsp, .asp, .aspx, .php, .pl, .vb, .vbs, .js, .py, .pyc, .cgi, .xml, .cfg, .properties, .ini, .conf, .config.
- In any directory in the JBossHome/server/minimal/conf directory and any directories below it, files with the following extensions: .xml, .cfg, .properties, .ini, .conf, .config.
- In any directory in the JBossHome/server/standard/conf directory and any directories below it, files with the following extensions: .xml, .cfg, .properties, .ini, .conf, .config.
- In any directory in the JBossHome/server/web/conf directory and any directories below it, files with the following extensions: .xml, .cfg, .properties, .ini, .conf, .config.
- In the JBossHome directory, the file jar-versions.xml.
- In the JBossHome/configuration/ directory, files with the following extensions: .xml, .properties.

Configuration tracking for Jboss is disabled by default. For information about how to enable configuration tracking and how to specify which files to track, see *Set Up Configuration Tracking for a Resource in vCenter Hyperic Administration*.

JBoss Metrics

This section details the JBoss metrics.

- [JBoss 7.1 Server](#) on page 493
This topic details JBoss 7.1 Server metrics.
- [JBoss Managed 7.1 Server](#) on page 498
This topic details the JBoss Managed 7.1 Server metrics.
- [JBoss Host Controller 7.1 Server](#) on page 503
This topic details the JBoss Host Controller 7.1 Server metrics.
- [JBoss 7.0 Server](#) on page 504
This topic details the JBoss 7.0 Server metrics.
- [JBoss Managed 7.0 Server](#) on page 510
This topic details the JBoss Managed 7.0 Server metrics.
- [JBoss Host Controller 7.0 Server](#) on page 515
This topic details the JBoss Host Controller 7.0 Server metrics.
- [JBoss 6.0 Server](#) on page 516
This topic details JBoss 6.0 Server metrics.
- [JBoss 5.1 Server](#) on page 526
This topic details the JBoss 5.1 Server metrics.
- [JBoss 5.0 Server](#) on page 534
This topic details the JBoss 5.0 Server metrics.

- [JBoss 4.3 Server](#) on page 543
This topic details the JBoss 4.3 Server metrics.
- [JBoss 4.2 Server](#) on page 553
This topic details the JBoss 4.2 Server metrics.
- [JBoss 4.0 Server](#) on page 562
This topic details the metrics.
- [JBoss 3.2 Server](#) on page 571
This topic details the JBoss 3.2 Server metrics.

JBoss 7.1 Server

This topic details JBoss 7.1 Server metrics.

Log Track Supported: No

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: stop, start, restart

Table 23-1. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
thread-count	thread-count	none	UTILIZATION	false	5 min
peak-thread-count	peak-thread-count	none	UTILIZATION	false	5 min
total-started-thread-count	total-started-thread-count	none	UTILIZATION	false	5 min
daemon-thread-count	daemon-thread-count	none	UTILIZATION	false	5 min
current-thread-cpu-time	current-thread-cpu-time	ns	UTILIZATION	false	5 min
current-thread-user-time	current-thread-user-time	ns	UTILIZATION	false	5 min
Heap Used %	h.used.p	percentage	UTILIZATION	true	5 min
Heap Init	h.init	B	UTILIZATION	false	5 min
Heap used	h.used	B	UTILIZATION	false	5 min
Heap Committed	h.committed	B	UTILIZATION	false	5 min
Heap Max	h.max	B	UTILIZATION	false	5 min
Non-Heap Used %	nh.used.p	percentage	UTILIZATION	true	5 min
Non-Heap Init	nh.init	B	UTILIZATION	false	5 min
Non-Heap used	nh.used	B	UTILIZATION	false	5 min
Non-Heap Committed	nh.committed	B	UTILIZATION	false	5 min
Non-Heap Max	nh.max	B	UTILIZATION	false	5 min
Object Pending Finalization	object-pending-finalization-count	none	UTILIZATION	false	5 min

Table 23-1. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Aborted Transactions	aborted-transactions	none	UTILIZATION	false	10 min
Aborted Transactions per Minute	aborted-transactions1m	none	UTILIZATION	false	10 min
Application Transactions Rollbacks	application-rollbacks	none	UTILIZATION	false	10 min
Application Transactions Rollbacks per Minute	application-rollbacks1m	none	UTILIZATION	false	10 min
Committed Transactions	committed-transactions	none	UTILIZATION	false	10 min
Committed Transactions per Minute	committed-transactions1m	none	UTILIZATION	false	10 min
Heuristics Transactions	heuristics	none	UTILIZATION	false	10 min
Heuristics Transactions per Minute	heuristics1m	none	UTILIZATION	false	10 min
Inflight Transactions	inflight-transactions	none	UTILIZATION	false	5 min
Nested Transactions	nested-transactions	none	UTILIZATION	false	10 min
Nested Transactions per Minute	nested-transactions1m	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks	resource-rollbacks	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks per Minute	resource-rollbacks1m	none	UTILIZATION	false	10 min
Timed-out Transactions	timed-out-transactions	none	UTILIZATION	false	10 min
Timed-out Transactions per Minute	timed-out-transactions1m	none	UTILIZATION	true	10 min
Number of Transactions	transactions	none	UTILIZATION	false	10 min
Number of Transactions per Minute	transactions1m	none	UTILIZATION	true	10 min

Configuration Help

Configure JBoss 7.1 for Monitoring

This section details the configuration properties and requirements for JBoss 7.1 for monitoring.

JBoss 7.1 Configuration Properties

This section details the configuration properties for JBoss 7.1 for monitoring.

- addr: Management HTTP IP/HostName (usually: localhost)
- port: Management HTTP Listen Port
- https: Use https/ssl
- user: Administrator User name
- pass: Administrator User password

JBoss 7.1 Datasource Service

This topic details the JBoss 7.1 Datasource Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-2. Custom Properties Supported

Name	Description
jndi	JNDI Name
driver	Driver

Supported Control Actions: None

Table 23-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
ActiveCount	ActiveCount	none	UTILIZATION	true	5 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
AverageBlockingTime	AverageBlockingTime	ms	UTILIZATION	false	5 min
AverageCreationTime	AverageCreationTime	ms	UTILIZATION	false	5 min
CreatedCount	CreatedCount	none	UTILIZATION	false	10 min
CreatedCount per Minute	CreatedCount1m	none	UTILIZATION	false	10 min
DestroyedCount	DestroyedCount	none	UTILIZATION	false	10 min
DestroyedCount per Minute	DestroyedCount1m	none	UTILIZATION	false	10 min
MaxCreationTime	MaxCreationTime	ms	UTILIZATION	false	5 min
MaxUsedCount	MaxUsedCount	none	UTILIZATION	false	10 min

Table 23-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
MaxUsedCount per Minute	MaxUsedCount1m	none	UTILIZATION	false	10 min
MaxWaitCount	MaxWaitCount	none	UTILIZATION	false	10 min
MaxWaitCount per Minute	MaxWaitCount1m	none	UTILIZATION	false	10 min
MaxWaitTime	MaxWaitTime	ms	UTILIZATION	true	5 min
PreparedStatementCacheAccessCount	PreparedStatementCacheAccessCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAccessCount per Minute	PreparedStatementCacheAccessCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheAddCount	PreparedStatementCacheAddCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAddCount per Minute	PreparedStatementCacheAddCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize	PreparedStatementCacheCurrentSize	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize per Minute	PreparedStatementCacheCurrentSize1m	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount	PreparedStatementCacheDeleteCount	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount per Minute	PreparedStatementCacheDeleteCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount	PreparedStatementCacheHitCount	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount per Minute	PreparedStatementCacheHitCount1m	none	UTILIZATION	true	10 min
PreparedStatementCacheMissCount	PreparedStatementCacheMissCount	none	UTILIZATION	false	10 min
PreparedStatementCacheMissCount per Minute	PreparedStatementCacheMissCount1m	none	UTILIZATION	true	10 min
TimedOut	TimedOut	none	UTILIZATION	false	10 min
TimedOut per Minute	TimedOut1m	none	UTILIZATION	false	10 min
TotalBlockingTime	TotalBlockingTime	ms	UTILIZATION	false	5 min
TotalCreationTime	TotalCreationTime	ms	UTILIZATION	false	5 min

Configuration Help

JBoss 7.1 Connector Service

This topic details the JBoss 7.1 Connector Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-4. Custom Properties Supported

Name	Description
protocol	protocol
scheme	scheme

Supported Control Actions: None

Table 23-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
errorCount	errorCount	none	UTILIZATION	false	10 min
errorCount per Minute	errorCount1m	none	UTILIZATION	true	10 min
requestCount	requestCount	none	UTILIZATION	false	10 min
requestCount per Minute	requestCount1m	none	UTILIZATION	true	10 min
maxTime	maxTime	ms	UTILIZATION	true	5 min
bytesSent	bytesSent	none	UTILIZATION	false	10 min
bytesSent per Minute	bytesSent1m	none	UTILIZATION	false	10 min
bytesReceived	bytesReceived	none	UTILIZATION	false	10 min
bytesReceived per Minute	bytesReceived1m	none	UTILIZATION	false	10 min
processingTime	processingTime	ms	UTILIZATION	false	10 min
processingTime per Minute	processingTime1m	ms	UTILIZATION	false	10 min

Configuration Help

JBoss 7.1 Deployment Service

This topic details the JBoss 7.1 Deployment Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-6. Custom Properties Supported

Name	Description
runtime-name	runtime-name

Supported Control Actions: None

Table 23-7. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss Managed 7.1 Server**

This topic details the JBoss Managed 7.1 Server metrics.

Log Track Supported: No

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: None

Table 23-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
thread-count	thread-count	none	UTILIZATION	false	5 min
peak-thread-count	peak-thread-count	none	UTILIZATION	false	5 min
total-started-thread-count	total-started-thread-count	none	UTILIZATION	false	5 min
daemon-thread-count	daemon-thread-count	none	UTILIZATION	false	5 min
current-thread-cpu-time	current-thread-cpu-time	ns	UTILIZATION	false	5 min
current-thread-user-time	current-thread-user-time	ns	UTILIZATION	false	5 min
Heap Used %	h.used.p	percentage	UTILIZATION	true	5 min
Heap Init	h.init	B	UTILIZATION	false	5 min
Heap used	h.used	B	UTILIZATION	false	5 min
Heap Committed	h.committed	B	UTILIZATION	false	5 min
Heap Max	h.max	B	UTILIZATION	false	5 min
Non-Heap Used %	nh.used.p	percentage	UTILIZATION	true	5 min
Non-Heap Init	nh.init	B	UTILIZATION	false	5 min
Non-Heap used	nh.used	B	UTILIZATION	false	5 min
Non-Heap Committed	nh.committed	B	UTILIZATION	false	5 min
Non-Heap Max	nh.max	B	UTILIZATION	false	5 min
Object Pending Finalization	object-pending-finalization-count	none	UTILIZATION	false	5 min
Aborted Transactions	aborted-transactions	none	UTILIZATION	false	10 min
Aborted Transactions per Minute	aborted-transactions1m	none	UTILIZATION	false	10 min

Table 23-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Application Transactions Rollbacks	application-rollbacks	none	UTILIZATION	false	10 min
Application Transactions Rollbacks per Minute	application-rollbacks1m	none	UTILIZATION	false	10 min
Committed Transactions	committed-transactions	none	UTILIZATION	false	10 min
Committed Transactions per Minute	committed-transactions1m	none	UTILIZATION	false	10 min
Heuristics Transactions	heuristics	none	UTILIZATION	false	10 min
Heuristics Transactions per Minute	heuristics1m	none	UTILIZATION	false	10 min
Inflight Transactions	inflight-transactions	none	UTILIZATION	false	5 min
Nested Transactions	nested-transactions	none	UTILIZATION	false	10 min
Nested Transactions per Minute	nested-transactions1m	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks	resource-rollbacks	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks per Minute	resource-rollbacks1m	none	UTILIZATION	false	10 min
Timed-out Transactions	timed-out-transactions	none	UTILIZATION	false	10 min
Timed-out Transactions per Minute	timed-out-transactions1m	none	UTILIZATION	true	10 min
Number of Transactions	transactions	none	UTILIZATION	false	10 min
Number of Transactions per Minute	transactions1m	none	UTILIZATION	true	10 min

Configuration Help

Configure JBoss Managed 7.1 for Monitoring

This topic details the configuration properties for JBoss Managed 7.1 for monitoring.

- addr: Management HTTP IP/HostName (usually: localhost)
- port: Management HTTP Listen Port
- https: Use https/ssl

- user: Administrator User name
- pass: Administrator User password
- host: Host Controller Name
- server: Server Name

JBoss Managed 7.1 Datasource Service

This topic details the JBoss Managed 7.1 Datasource Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-9. Custom Properties Supported

Name	Description
jndi	JNDI Name
driver	Driver

Supported Control Actions: None

Table 23-10. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
ActiveCount	ActiveCount	none	UTILIZATION	true	5 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
AverageBlockingTime	AverageBlockingTime	ms	UTILIZATION	false	5 min
AverageCreationTime	AverageCreationTime	ms	UTILIZATION	false	5 min
CreatedCount	CreatedCount	none	UTILIZATION	false	10 min
CreatedCount per Minute	CreatedCount1m	none	UTILIZATION	false	10 min
DestroyedCount	DestroyedCount	none	UTILIZATION	false	10 min
DestroyedCount per Minute	DestroyedCount1m	none	UTILIZATION	false	10 min
MaxCreationTime	MaxCreationTime	ms	UTILIZATION	false	5 min
MaxUsedCount	MaxUsedCount	none	UTILIZATION	false	10 min
MaxUsedCount per Minute	MaxUsedCount1m	none	UTILIZATION	false	10 min
MaxWaitCount	MaxWaitCount	none	UTILIZATION	false	10 min
MaxWaitCount per Minute	MaxWaitCount1m	none	UTILIZATION	false	10 min
MaxWaitTime	MaxWaitTime	ms	UTILIZATION	true	5 min
PreparedStatementCacheAccessCount	PreparedStatementCacheAccessCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAccessCount per Minute	PreparedStatementCacheAccessCount1m	none	UTILIZATION	false	10 min

Table 23-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
PreparedStatementCacheAddCount	PreparedStatementCacheAddCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAddCount per Minute	PreparedStatementCacheAddCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize	PreparedStatementCacheCurrentSize	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize per Minute	PreparedStatementCacheCurrentSize1m	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount	PreparedStatementCacheDeleteCount	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount per Minute	PreparedStatementCacheDeleteCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount	PreparedStatementCacheHitCount	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount per Minute	PreparedStatementCacheHitCount1m	none	UTILIZATION	true	10 min
PreparedStatementCacheMissCount	PreparedStatementCacheMissCount	none	UTILIZATION	false	10 min
PreparedStatementCacheMissCount per Minute	PreparedStatementCacheMissCount1m	none	UTILIZATION	true	10 min
TimedOut	TimedOut	none	UTILIZATION	false	10 min
TimedOut per Minute	TimedOut1m	none	UTILIZATION	false	10 min
TotalBlockingTime	TotalBlockingTime	ms	UTILIZATION	false	5 min
TotalCreationTime	TotalCreationTime	ms	UTILIZATION	false	5 min

Configuration Help**JBoss Managed 7.1 Connector Service**

This topic details the JBoss Managed 7.1 Connector Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-11. Custom Properties Supported

Name	Description
protocol	protocol
scheme	scheme

Supported Control Actions: None

Table 23-12. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
errorCount	errorCount	none	UTILIZATION	false	10 min
errorCount per Minute	errorCount1m	none	UTILIZATION	true	10 min
requestCount	requestCount	none	UTILIZATION	false	10 min
requestCount per Minute	requestCount1m	none	UTILIZATION	true	10 min
maxTime	maxTime	ms	UTILIZATION	true	5 min
bytesSent	bytesSent	none	UTILIZATION	false	10 min
bytesSent per Minute	bytesSent1m	none	UTILIZATION	false	10 min
bytesReceived	bytesReceived	none	UTILIZATION	false	10 min
bytesReceived per Minute	bytesReceived1m	none	UTILIZATION	false	10 min
processingTime	processingTime	ms	UTILIZATION	false	10 min
processingTime per Minute	processingTime1m	ms	UTILIZATION	false	10 min

Configuration Help**JBoss Managed 7.1 Deployment Service**

This topic details the JBoss Managed 7.1 Deployment Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-13. Custom Properties Supported

Name	Description
runtime-name	runtime-name

Supported Control Actions: None

Table 23-14. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss Managed 7.1 Server SSL Configuration Requirements (vCenter Hyperic 4.6 and later)

This section details the SSL configuration requirements for JBoss Managed 7.1 for monitoring.

There are SSL configuration requirements for secure communication between a vCenter Hyperic agent and JBoss.

If the `accept.unverified.certificates` property is false (default value) in the `agent.properties` file, the JBoss's unverified SSL certificate needs to be manually imported to a keystore that the vCenter Hyperic agent can access. Otherwise, secure communication between the vCenter Hyperic agent and JBoss will fail.

If the `accept.unverified.certificates` property is true in the `agent.properties` file, the JBoss plugin will automatically import the unverified SSL certificate of the JBoss to the keystore accessible to the vCenter Hyperic agent.

NOTE This is not recommended because it is less secure and will expose the vCenter Hyperic agent to man-in-the-middle attacks.

JBoss Host Controller 7.1 Server

This topic details the JBoss Host Controller 7.1 Server metrics.

Log Track Supported: No

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: None

Table 23-15. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
thread-count	thread-count	none	UTILIZATION	false	5 min
peak-thread-count	peak-thread-count	none	UTILIZATION	false	5 min
total-started-thread-count	total-started-thread-count	none	UTILIZATION	false	5 min
daemon-thread-count	daemon-thread-count	none	UTILIZATION	false	5 min
current-thread-cpu-time	current-thread-cpu-time	ns	UTILIZATION	false	5 min
current-thread-user-time	current-thread-user-time	ns	UTILIZATION	false	5 min
Heap Used %	h.used.p	percentage	UTILIZATION	true	5 min
Heap Init	h.init	B	UTILIZATION	false	5 min
Heap used	h.used	B	UTILIZATION	false	5 min
Heap Committed	h.committed	B	UTILIZATION	false	5 min
Heap Max	h.max	B	UTILIZATION	false	5 min
Non-Heap Used %	nh.used.p	percentage	UTILIZATION	true	5 min
Non-Heap Init	nh.init	B	UTILIZATION	false	5 min

Table 23-15. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Non-Heap used	nh.used	B	UTILIZATION	false	5 min
Non-Heap Committed	nh.committed	B	UTILIZATION	false	5 min
Non-Heap Max	nh.max	B	UTILIZATION	false	5 min

Configuration Help

JBoss Host Controller 7.1 Server Configuration Properties

This section details the configuration properties for JBoss Host Controller 7.1 for monitoring.

- `addr`: Management HTTP IP/HostName (usually: localhost)
- `port`: Management HTTP Listen Port
- `https`: Use https/ssl
- `user`: Administrator User name
- `pass`: Administrator User password
- `host`: Host Controller Name

SSL Configuration Requirements (Hyperic 4.6 and later)

This section details the SSL configuration requirements for JBoss Host Controller 7.1 for monitoring.

There are SSL configuration requirements for secure communication between a vCenter Hyperic agent and JBoss.

If the `accept.unverified.certificates` property is false (default value) in the `agent.properties` file, the JBoss's unverified SSL certificate needs to be manually imported to a keystore that the vCenter Hyperic agent can access. Otherwise, secure communication between the vCenter Hyperic agent and JBoss will fail.

If the `accept.unverified.certificates` property is true in the `agent.properties` file, the JBoss plugin will automatically import the unverified SSL certificate of the JBoss to the keystore accessible to the vCenter Hyperic agent.

NOTE This is not recommended because it is less secure and will expose the vCenter Hyperic agent to man-in-the-middle attacks.

JBoss 7.0 Server

This topic details the JBoss 7.0 Server metrics.

Log Track Supported: No

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: stop, start, restart

Table 23-16. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
thread-count	thread-count	none	UTILIZATION	false	5 min

Table 23-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
peak-thread-count	peak-thread-count	none	UTILIZATION	false	5 min
total-started-thread-count	total-started-thread-count	none	UTILIZATION	false	5 min
daemon-thread-count	daemon-thread-count	none	UTILIZATION	false	5 min
current-thread-cpu-time	current-thread-cpu-time	ns	UTILIZATION	false	5 min
current-thread-user-time	current-thread-user-time	ns	UTILIZATION	false	5 min
Heap Used %	h.used.p	percentage	UTILIZATION	true	5 min
Heap Init	h.init	B	UTILIZATION	false	5 min
Heap used	h.used	B	UTILIZATION	false	5 min
Heap Committed	h.committed	B	UTILIZATION	false	5 min
Heap Max	h.max	B	UTILIZATION	false	5 min
Non-Heap Used %	nh.used.p	percentage	UTILIZATION	true	5 min
Non-Heap Init	nh.init	B	UTILIZATION	false	5 min
Non-Heap used	nh.used	B	UTILIZATION	false	5 min
Non-Heap Committed	nh.committed	B	UTILIZATION	false	5 min
Non-Heap Max	nh.max	B	UTILIZATION	false	5 min
Object Pending Finalization	object-pending-finalization-count	none	UTILIZATION	false	5 min
Aborted Transactions	aborted-transactions	none	UTILIZATION	false	10 min
Aborted Transactions per Minute	aborted-transactions1m	none	UTILIZATION	false	10 min
Application Transactions Rollbacks	application-rollbacks	none	UTILIZATION	false	10 min
Application Transactions Rollbacks per Minute	application-rollbacks1m	none	UTILIZATION	false	10 min
Committed Transactions	committed-transactions	none	UTILIZATION	false	10 min
Committed Transactions per Minute	committed-transactions1m	none	UTILIZATION	false	10 min
Heuristics Transactions	heuristics	none	UTILIZATION	false	10 min
Heuristics Transactions per Minute	heuristics1m	none	UTILIZATION	false	10 min

Table 23-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Inflight Transactions	inflight-transactions	none	UTILIZATION	false	5 min
Nested Transactions	nested-transactions	none	UTILIZATION	false	10 min
Nested Transactions per Minute	nested-transactions1m	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks	resource-rollbacks	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks per Minute	resource-rollbacks1m	none	UTILIZATION	false	10 min
Timed-out Transactions	timed-out-transactions	none	UTILIZATION	false	10 min
Timed-out Transactions per Minute	timed-out-transactions1m	none	UTILIZATION	true	10 min
Number of Transactions	transactions	none	UTILIZATION	false	10 min
Number of Transactions per Minute	transactions1m	none	UTILIZATION	true	10 min

Configuration Help

JBoss Configuration Properties

This section details the configuration properties for JBoss 7.0 for monitoring.

- addr: Management HTTP IP/HostName (usually: localhost)
- port: Management HTTP Listen Port
- https: Use https/ssl
- user: Administrator User name
- pass: Administrator User password

JBoss 7.0 Datasource Service

This topic details the JBoss 7.0 Datasource Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-17. Custom Properties Supported

Name	Description
jndi	JNDI Name
driver	Driver

Supported Control Actions: None

Table 23-18. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
ActiveCount	ActiveCount	none	UTILIZATION	true	5 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
AverageBlockingTime	AverageBlockingTime	ms	UTILIZATION	false	5 min
AverageCreationTime	AverageCreationTime	ms	UTILIZATION	false	5 min
CreatedCount	CreatedCount	none	UTILIZATION	false	10 min
CreatedCount per Minute	CreatedCount1m	none	UTILIZATION	false	10 min
DestroyedCount	DestroyedCount	none	UTILIZATION	false	10 min
DestroyedCount per Minute	DestroyedCount1m	none	UTILIZATION	false	10 min
MaxCreationTime	MaxCreationTime	ms	UTILIZATION	false	5 min
MaxUsedCount	MaxUsedCount	none	UTILIZATION	false	10 min
MaxUsedCount per Minute	MaxUsedCount1m	none	UTILIZATION	false	10 min
MaxWaitCount	MaxWaitCount	none	UTILIZATION	false	10 min
MaxWaitCount per Minute	MaxWaitCount1m	none	UTILIZATION	false	10 min
MaxWaitTime	MaxWaitTime	ms	UTILIZATION	true	5 min
PreparedStatementCacheAccessCount	PreparedStatementCacheAccessCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAccessCount per Minute	PreparedStatementCacheAccessCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheAddCount	PreparedStatementCacheAddCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAddCount per Minute	PreparedStatementCacheAddCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize	PreparedStatementCacheCurrentSize	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize per Minute	PreparedStatementCacheCurrentSize1m	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount	PreparedStatementCacheDeleteCount	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount per Minute	PreparedStatementCacheDeleteCount1m	none	UTILIZATION	false	10 min

Table 23-18. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
PreparedStatementCacheHitCount	PreparedStatementCacheHitCount	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount per Minute	PreparedStatementCacheHitCount1m	none	UTILIZATION	true	10 min
PreparedStatementCacheMissCount	PreparedStatementCacheMissCount	none	UTILIZATION	false	10 min
PreparedStatementCacheMissCount per Minute	PreparedStatementCacheMissCount1m	none	UTILIZATION	true	10 min
TimedOut	TimedOut	none	UTILIZATION	false	10 min
TimedOut per Minute	TimedOut1m	none	UTILIZATION	false	10 min
TotalBlockingTime	TotalBlockingTime	ms	UTILIZATION	false	5 min
TotalCreationTime	TotalCreationTime	ms	UTILIZATION	false	5 min

Configuration Help**JBoss 7.0 Connector Service**

This topic details the JBoss 7.0 Connector Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-19. Custom Properties Supported

Name	Description
protocol	protocol
scheme	scheme

Supported Control Actions: None

Table 23-20. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
errorCount	errorCount	none	UTILIZATION	false	10 min
errorCount per Minute	errorCount1m	none	UTILIZATION	true	10 min
requestCount	requestCount	none	UTILIZATION	false	10 min
requestCount per Minute	requestCount1m	none	UTILIZATION	true	10 min
maxTime	maxTime	ms	UTILIZATION	true	5 min
bytesSent	bytesSent	none	UTILIZATION	false	10 min

Table 23-20. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
bytesSent per Minute	bytesSent1m	none	UTILIZATION	false	10 min
bytesReceived	bytesReceived	none	UTILIZATION	false	10 min
bytesReceived per Minute	bytesReceived1m	none	UTILIZATION	false	10 min
processingTime	processingTime	ms	UTILIZATION	false	10 min
processingTime per Minute	processingTime1m	ms	UTILIZATION	false	10 min

Configuration Help**JBoss 7.0 Deployment Service**

This topic details the JBoss 7.0 Deployment Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-21. Custom Properties Supported

Name	Description
runtime-name	runtime-name

Supported Control Actions: None

Table 23-22. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 7.0 Server SSL Configuration Requirements (vCenter Hyperic 4.6 and later)**

This section details the SSL configuration requirements for JBoss 7.0 for monitoring.

There are SSL configuration requirements for secure communication between a vCenter Hyperic agent and JBoss.

If the `accept.unverified.certificates` property is false (default value) in the `agent.properties` file, the JBoss's unverified SSL certificate needs to be manually imported to a keystore that the vCenter Hyperic agent can access. Otherwise, secure communication between the Hyperic 4.6 agent and JBoss will fail.

If the `accept.unverified.certificates` property is true in the `agent.properties` file, the JBoss plugin will automatically import the unverified SSL certificate of the JBoss to the keystore accessible to the vCenter Hyperic agent.

NOTE This is not recommended because it is less secure and will expose the vCenter Hyperic agent to man-in-the-middle attacks.

JBoss Managed 7.0 Server

This topic details the JBoss Managed 7.0 Server metrics.

Log Track Supported: No

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: None

Table 23-23. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
thread-count	thread-count	none	UTILIZATION	false	5 min
peak-thread-count	peak-thread-count	none	UTILIZATION	false	5 min
total-started-thread-count	total-started-thread-count	none	UTILIZATION	false	5 min
daemon-thread-count	daemon-thread-count	none	UTILIZATION	false	5 min
current-thread-cpu-time	current-thread-cpu-time	ns	UTILIZATION	false	5 min
current-thread-user-time	current-thread-user-time	ns	UTILIZATION	false	5 min
Heap Used %	h.used.p	percentage	UTILIZATION	true	5 min
Heap Init	h.init	B	UTILIZATION	false	5 min
Heap used	h.used	B	UTILIZATION	false	5 min
Heap Committed	h.committed	B	UTILIZATION	false	5 min
Heap Max	h.max	B	UTILIZATION	false	5 min
Non-Heap Used %	nh.used.p	percentage	UTILIZATION	true	5 min
Non-Heap Init	nh.init	B	UTILIZATION	false	5 min
Non-Heap used	nh.used	B	UTILIZATION	false	5 min
Non-Heap Committed	nh.committed	B	UTILIZATION	false	5 min
Non-Heap Max	nh.max	B	UTILIZATION	false	5 min
Object Pending Finalization	object-pending-finalization-count	none	UTILIZATION	false	5 min
Aborted Transactions	aborted-transactions	none	UTILIZATION	false	10 min
Aborted Transactions per Minute	aborted-transactions1m	none	UTILIZATION	false	10 min
Application Transactions Rollbacks	application-rollbacks	none	UTILIZATION	false	10 min

Table 23-23. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Application Transactions Rollbacks per Minute	application- rollbacks1m	none	UTILIZATION	false	10 min
Committed Transactions	committed- transactions	none	UTILIZATION	false	10 min
Committed Transactions per Minute	committed- transactions1m	none	UTILIZATION	false	10 min
Heuristics Transactions	heuristics	none	UTILIZATION	false	10 min
Heuristics Transactions per Minute	heuristics1m	none	UTILIZATION	false	10 min
Inflight Transactions	inflight- transactions	none	UTILIZATION	false	5 min
Nested Transactions	nested- transactions	none	UTILIZATION	false	10 min
Nested Transactions per Minute	nested- transactions1m	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks	resource- rollbacks	none	UTILIZATION	false	10 min
Resource Transactions Rollbacks per Minute	resource- rollbacks1m	none	UTILIZATION	false	10 min
Timed-out Transactions	timed-out- transactions	none	UTILIZATION	false	10 min
Timed-out Transactions per Minute	timed-out- transactions1m	none	UTILIZATION	true	10 min
Number of Transactions	transactions	none	UTILIZATION	false	10 min
Number of Transactions per Minute	transactions1m	none	UTILIZATION	true	10 min

Configuration Help

JBoss Managed 7.0 Server Configuration Properties

This section details the configuration properties for JBoss Managed 7.0 for monitoring.

- addr: Management HTTP IP/HostName (usually: localhost)
- port: Management HTTP Listen Port
- https: Use https/ssl
- user: Administrator User name
- pass: Administrator User password

- host: Host Controller Name
- server: Server Name

JBoss Managed 7.0 Datasource Service

This topic details the JBoss Managed 7.0 Datasource Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-24. Custom Properties Supported

Name	Description
jndi	JNDI Name
driver	Driver

Supported Control Actions: None

Table 23-25. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
ActiveCount	ActiveCount	none	UTILIZATION	true	5 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
AverageBlockingTime	AverageBlockingTime	ms	UTILIZATION	false	5 min
AverageCreationTime	AverageCreationTime	ms	UTILIZATION	false	5 min
CreatedCount	CreatedCount	none	UTILIZATION	false	10 min
CreatedCount per Minute	CreatedCount1m	none	UTILIZATION	false	10 min
DestroyedCount	DestroyedCount	none	UTILIZATION	false	10 min
DestroyedCount per Minute	DestroyedCount1m	none	UTILIZATION	false	10 min
MaxCreationTime	MaxCreationTime	ms	UTILIZATION	false	5 min
MaxUsedCount	MaxUsedCount	none	UTILIZATION	false	10 min
MaxUsedCount per Minute	MaxUsedCount1m	none	UTILIZATION	false	10 min
MaxWaitCount	MaxWaitCount	none	UTILIZATION	false	10 min
MaxWaitCount per Minute	MaxWaitCount1m	none	UTILIZATION	false	10 min
MaxWaitTime	MaxWaitTime	ms	UTILIZATION	true	5 min
PreparedStatementCacheAccessCount	PreparedStatementCacheAccessCount	none	UTILIZATION	false	10 min
PreparedStatementCacheAccessCount per Minute	PreparedStatementCacheAccessCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheAddCount	PreparedStatementCacheAddCount	none	UTILIZATION	false	10 min

Table 23-25. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
PreparedStatementCacheAddCount per Minute	PreparedStatementCacheAddCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize	PreparedStatementCacheCurrentSize	none	UTILIZATION	false	10 min
PreparedStatementCacheCurrentSize per Minute	PreparedStatementCacheCurrentSize1m	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount	PreparedStatementCacheDeleteCount	none	UTILIZATION	false	10 min
PreparedStatementCacheDeleteCount per Minute	PreparedStatementCacheDeleteCount1m	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount	PreparedStatementCacheHitCount	none	UTILIZATION	false	10 min
PreparedStatementCacheHitCount per Minute	PreparedStatementCacheHitCount1m	none	UTILIZATION	true	10 min
PreparedStatementCacheMissCount	PreparedStatementCacheMissCount	none	UTILIZATION	false	10 min
PreparedStatementCacheMissCount per Minute	PreparedStatementCacheMissCount1m	none	UTILIZATION	true	10 min
TimedOut	TimedOut	none	UTILIZATION	false	10 min
TimedOut per Minute	TimedOut1m	none	UTILIZATION	false	10 min
TotalBlockingTime	TotalBlockingTime	ms	UTILIZATION	false	5 min
TotalCreationTime	TotalCreationTime	ms	UTILIZATION	false	5 min

Configuration Help**JBoss Managed 7.0 Connector Service**

This topic details the JBoss Managed 7.0 Connector Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-26. Custom Properties Supported

Name	Description
protocol	protocol
scheme	scheme

Supported Control Actions: None

Table 23-27. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
errorCount	errorCount	none	UTILIZATION	false	10 min
errorCount per Minute	errorCount1m	none	UTILIZATION	true	10 min
requestCount	requestCount	none	UTILIZATION	false	10 min
requestCount per Minute	requestCount1m	none	UTILIZATION	true	10 min
maxTime	maxTime	ms	UTILIZATION	true	5 min
bytesSent	bytesSent	none	UTILIZATION	false	10 min
bytesSent per Minute	bytesSent1m	none	UTILIZATION	false	10 min
bytesReceived	bytesReceived	none	UTILIZATION	false	10 min
bytesReceived per Minute	bytesReceived1m	none	UTILIZATION	false	10 min
processingTime	processingTime	ms	UTILIZATION	false	10 min
processingTime per Minute	processingTime1m	ms	UTILIZATION	false	10 min

Configuration Help**JBoss Managed 7.0 Deployment Service**

This topic details the JBoss Managed 7.0 Deployment Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-28. Custom Properties Supported

Name	Description
runtime-name	runtime-name

Supported Control Actions: None

Table 23-29. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss Managed 7.0 Server SSL Configuration Requirements (vCenter Hyperic 4.6 and later)**

This section details the SSL configuration requirements for JBoss Managed 7.0 for monitoring.

There are SSL configuration requirements for secure communication between a vCenter Hyperic agent and JBoss.

If the `accept.unverified.certificates` property is false (default value) in the `agent.properties` file, the JBoss's unverified SSL certificate needs to be manually imported to a keystore that the vCenter Hyperic agent can access. Otherwise, secure communication between the vCenter Hyperic agent and JBoss will fail.

If the `accept.unverified.certificates` property is true in the `agent.properties` file, the JBoss plugin will automatically import the unverified SSL certificate of the JBoss to the keystore accessible to the vCenter Hyperic agent.

NOTE This is not recommended because it is less secure and will expose the vCenter Hyperic agent to man-in-the-middle attacks.

JBoss Host Controller 7.0 Server

This topic details the JBoss Host Controller 7.0 Server metrics.

Log Track Supported: No

Config Track Supported: Yes

Custom Properties Supported: None

Supported Control Actions: None

Table 23-30. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
thread-count	thread-count	none	UTILIZATION	false	5 min
peak-thread-count	peak-thread-count	none	UTILIZATION	false	5 min
total-started-thread-count	total-started-thread-count	none	UTILIZATION	false	5 min
daemon-thread-count	daemon-thread-count	none	UTILIZATION	false	5 min
current-thread-cpu-time	current-thread-cpu-time	ns	UTILIZATION	false	5 min
current-thread-user-time	current-thread-user-time	ns	UTILIZATION	false	5 min
Heap Used %	h.used.p	percentage	UTILIZATION	true	5 min
Heap Init	h.init	B	UTILIZATION	false	5 min
Heap used	h.used	B	UTILIZATION	false	5 min
Heap Committed	h.committed	B	UTILIZATION	false	5 min
Heap Max	h.max	B	UTILIZATION	false	5 min
Non-Heap Used %	nh.used.p	percentage	UTILIZATION	true	5 min
Non-Heap Init	nh.init	B	UTILIZATION	false	5 min
Non-Heap used	nh.used	B	UTILIZATION	false	5 min
Non-Heap Committed	nh.committed	B	UTILIZATION	false	5 min
Non-Heap Max	nh.max	B	UTILIZATION	false	5 min

Configuration Help

JBoss Host Controller 7.0 Server Configuration Properties

This section details the configuration properties for JBoss Host Controller 7.0 for monitoring.

- `addr`: Management HTTP IP/HostName (usually: localhost)
- `port`: Management HTTP Listen Port
- `https`: Use https/ssl
- `user`: Administrator User name
- `pass`: Administrator User password
- `host`: Host Controller Name

JBoss Host Controller 7.0 Server SSL Configuration Requirements (vCenter Hyperic 4.6 and later)

This section details the SSL configuration requirements for JBoss Host Controller 7.0 for monitoring.

There are SSL configuration requirements for secure communication between a vCenter Hyperic agent and JBoss.

If the `accept.unverified.certificates` property is false (default value) in the `agent.properties` file, the JBoss's unverified SSL certificate needs to be manually imported to a keystore that the vCenter Hyperic agent can access. Otherwise, secure communication between the vCenter Hyperic agent and JBoss will fail.

If the `accept.unverified.certificates` property is true in the `agent.properties` file, the JBoss plugin will automatically import the unverified SSL certificate of the JBoss to the keystore accessible to the vCenter Hyperic agent.

NOTE This is not recommended because it is less secure and will expose the vCenter Hyperic agent to man-in-the-middle attacks.

JBoss 6.0 Server

This topic details JBoss 6.0 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-31. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-32. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min

Configuration Help

JBoss 6.0 EJB3 Service

This topic details the JBoss 6.0 EJB3 Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-33. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 6.0 Hibernate Session Factory Service

This topic details the JBoss 6.0 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-34. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min
Entity Insert Count per Minute	EntityInsertCount1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min
Entity Update Count per Minute	EntityUpdateCount1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount1m	none	THROUGHPUT	false	10 min
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min

Table 23-34. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help**JBoss 6.0 JCA Connection Pool Service**

This topic details the JBoss 6.0 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-35. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, flush

Table 23-36. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 6.0 JCA Data Source Service**

This topic details the JBoss 6.0 JCA Data Source Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-37. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 6.0 JGroups Channel Service**

This topic details the JBoss 6.0 JGroups Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-38. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Messages	NumberofMessages	none	THROUGHPUT	false	10 min
Number of Messages per Minute	NumberofMessages1m	none	THROUGHPUT	true	10 min
Sent Messages	SentMessages	none	THROUGHPUT	false	10 min
Sent Messages per Minute	SentMessages1m	none	THROUGHPUT	true	10 min
Sent Bytes	SentBytes	B	THROUGHPUT	false	10 min
Sent Bytes per Minute	SentBytes1m	B	THROUGHPUT	true	10 min
Received Bytes	ReceivedBytes	B	THROUGHPUT	false	10 min
Received Bytes per Minute	ReceivedBytes1m	B	THROUGHPUT	true	10 min
Timer Threads	TimerThreads	none	THROUGHPUT	true	5 min
Tasks In Timer	TasksInTimer	none	THROUGHPUT	true	5 min

Configuration Help**JBoss 6.0 JMS Topic Service**

This topic details the JBoss 6.0 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-39. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-40. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptionsCount	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 6.0 JMS QUEUE Destination Service**

This topic details the JBoss 6.0 JMS QUEUE Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-41. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-42. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Delivering Count	DeliveringCount	none	UTILIZATION	true	5 min
Consumer Count	ConsumerCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 6.0 JMS HornetQ QUEUE Service**

This topic details the JBoss 6.0 JMS HornetQ QUEUE Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-43. Custom Properties Supported

Name	Description
Address	Address
DeadLetterAddress	DeadLetter Address
ExpiryAddress	Expiry Address
JNDIBindings	JNDI Bindings

Supported Control Actions: pause, resume

Table 23-44. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Messages Add	MessagesAdded	none	UTILIZATION	false	10 min
Messages Add per Minute	MessagesAdded 1m	none	UTILIZATION	true	10 min
Delivering Count	DeliveringCount	none	UTILIZATION	true	5 min
Consumer Count	ConsumerCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 6.0 JMS HornetQ Topic Service**

This topic details the JBoss 6.0 JMS HornetQ Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-45. Custom Properties Supported

Name	Description
Address	Address
JNDIBindings	JNDI Bindings

Supported Control Actions: stop, start, removeAllMessages

Table 23-46. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Subscriptions Count	SubscriptionCount	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
Message Count	MessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 6.0 Message Driven EJB Service**

This topic details the JBoss 6.0 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-47. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Min Pool Size	MinPoolSize	none	UTILIZATION	false	5 min
Max Messages	MaxMessages	none	UTILIZATION	false	5 min
Keep AliveMillis	KeepAliveMillis	sec	UTILIZATION	false	30 min
Max Pool Size	MaxPoolSize	none	UTILIZATION	true	5 min

Configuration Help**JBoss 6.0 Stateful Session EJB Service**

This topic details the JBoss 6.0 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-48. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cache Size	CacheSize	none	UTILIZATION	true	5 min
Available Count	AvailableCount	none	UTILIZATION	false	5 min
Max Size	MaxSize	none	UTILIZATION	false	5 min
Total Size	TotalSize	none	UTILIZATION	false	5 min
Current Size	CurrentSize	none	UTILIZATION	true	5 min
Create Count	CreateCount	none	UTILIZATION	false	10 min
Create Count per Minute	CreateCount1m	none	UTILIZATION	false	10 min
Remove Count	RemoveCount	none	UTILIZATION	false	10 min
Remove Count per Minute	RemoveCount1m	none	UTILIZATION	false	10 min
Passivated Count	PassivatedCount	none	UTILIZATION	false	10 min
Passivated Count per Minute	PassivatedCount1m	none	UTILIZATION	false	10 min

Configuration Help**JBoss 6.0 Stateless Session EJB Service**

This topic details the JBoss 6.0 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-49. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
MaxSize	MaxSize	none	UTILIZATION	false	5 min
CurrentSize	CurrentSize	none	UTILIZATION	false	5 min
CreateCount	CreateCount	none	UTILIZATION	false	10 min
CreateCount per Minute	CreateCount1m	none	UTILIZATION	false	10 min
RemoveCount	RemoveCount	none	UTILIZATION	false	10 min
RemoveCount per Minute	RemoveCount1m	none	UTILIZATION	false	10 min

Configuration Help**JBoss 6.0 Webapp Service**

This topic details the JBoss 6.0 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-50. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cache MaxSize	cacheMaxSize	none	THROUGHPUT	true	5 min
Access Count	accessCount	none	UTILIZATION	true	5 min
Cache Size	cacheSize	none	UTILIZATION	true	5 min
Hits Count	hitsCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 5.1 Server**

This topic details the JBoss 5.1 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-51. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-52. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min

Table 23-52. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min

Configuration Help

JBoss 5.1 EJB3 Service

This topic details the JBoss 5.1 EJB3 Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-53. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 5.1 Hibernate Session Factory Service

This topic details the JBoss 5.1 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-54. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min
Entity Insert Count per Minute	EntityInsertCount1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min

Table 23-54. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min
Entity Update Count per Minute	EntityUpdateCount1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount1m	none	THROUGHPUT	false	10 min
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min

Table 23-54. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help

JBoss 5.1 JCA Connection Pool Service

This topic details the JBoss 5.1 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-55. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, flush

Table 23-56. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 5.1 JCA Data Source Service

This topic details the JBoss 5.1 JCA Data Source Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-57. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 5.1 JGroups Channel Service

This topic details the JBoss 5.1 JGroups Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-58. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Messages	NumberofMessages	none	THROUGHPUT	false	10 min
Number of Messages per Minute	NumberofMessages1m	none	THROUGHPUT	true	10 min
Sent Messages	SentMessages	none	THROUGHPUT	false	10 min
Sent Messages per Minute	SentMessages1m	none	THROUGHPUT	true	10 min
Sent Bytes	SentBytes	B	THROUGHPUT	false	10 min
Sent Bytes per Minute	SentBytes1m	B	THROUGHPUT	true	10 min
Received Bytes	ReceivedBytes	B	THROUGHPUT	false	10 min
Received Bytes per Minute	ReceivedBytes1m	B	THROUGHPUT	true	10 min
Timer Threads	TimerThreads	none	THROUGHPUT	true	5 min
Tasks In Timer	TasksInTimer	none	THROUGHPUT	true	5 min

Configuration Help

JBoss 5.1 JMS Topic Service

This topic details the JBoss 5.1 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-59. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-60. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptionsCount	none	UTILIZATION	true	5 min

Table 23-60. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 5.1 JMS QUEUE Destination Service**

This topic details the JBoss 5.1 JMS QUEUE Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-61. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-62. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Delivering Count	DeliveringCount	none	UTILIZATION	true	5 min
Consumer Count	ConsumerCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 5.1 Message Driven EJB Service**

This topic details the JBoss 5.1 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-63. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Min Pool Size	MinPoolSize	none	UTILIZATION	false	5 min
Max Messages	MaxMessages	none	UTILIZATION	false	5 min
Keep AliveMillis	KeepAliveMillis	sec	UTILIZATION	false	30 min
Max Pool Size	MaxPoolSize	none	UTILIZATION	true	5 min

Configuration Help

JBoss 5.1 Stateful Session EJB Service

This topic details the JBoss 5.1 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-64. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cache Size	CacheSize	none	UTILIZATION	true	5 min
Available Count	AvailableCount	none	UTILIZATION	false	5 min
Max Size	MaxSize	none	UTILIZATION	false	5 min
Total Size	TotalSize	none	UTILIZATION	false	5 min
Current Size	CurrentSize	none	UTILIZATION	true	5 min
Create Count	CreateCount	none	UTILIZATION	false	10 min
Create Count per Minute	CreateCount1m	none	UTILIZATION	false	10 min
Remove Count	RemoveCount	none	UTILIZATION	false	10 min
Remove Count per Minute	RemoveCount1m	none	UTILIZATION	false	10 min
Passivated Count	PassivatedCount	none	UTILIZATION	false	10 min
Passivated Count per Minute	PassivatedCount1m	none	UTILIZATION	false	10 min

Configuration Help

JBoss 5.1 Stateless Session EJB Service

This topic details the JBoss 5.1 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-65. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
MaxSize	MaxSize	none	UTILIZATION	false	5 min
CurrentSize	CurrentSize	none	UTILIZATION	false	5 min
CreateCount	CreateCount	none	UTILIZATION	false	10 min
CreateCount per Minute	CreateCount1m	none	UTILIZATION	false	10 min
RemoveCount	RemoveCount	none	UTILIZATION	false	10 min
RemoveCount per Minute	RemoveCount1m	none	UTILIZATION	false	10 min

Configuration Help

JBoss 5.1 Webapp Service

This topic details the JBoss 5.1 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-66. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cache MaxSize	cacheMaxSize	none	THROUGHPUT	true	5 min
Access Count	accessCount	none	UTILIZATION	true	5 min
Cache Size	cacheSize	none	UTILIZATION	true	5 min
Hits Count	hitsCount	none	UTILIZATION	false	5 min

Configuration Help

JBoss 5.0 Server

This topic details the JBoss 5.0 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-67. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-68. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min

Configuration Help

JBoss 5.0 EJB3 Service

This topic details the JBoss 5.0 EJB3 Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-69. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 5.0 Hibernate Session Factory Service**

This topic details the JBoss 5.0 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-70. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min
Entity Insert Count per Minute	EntityInsertCount1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min
Entity Update Count per Minute	EntityUpdateCount1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount1m	none	THROUGHPUT	false	10 min
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min

Table 23-70. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min

Table 23-70. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help

JBoss 5.0 JCA Connection Pool Service

This topic details the JBoss 5.0 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-71. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, flush

Table 23-72. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 5.0 JCA Data Source Service**

This topic details the JBoss 5.0 JCA Data Source Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-73. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 5.0 JGroups Channel Service**

This topic details the JBoss 5.0 JGroups Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-74. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Messages	NumberofMessages	none	THROUGHPUT	false	10 min
Number of Messages per Minute	NumberofMessages1m	none	THROUGHPUT	true	10 min
Sent Messages	SentMessages	none	THROUGHPUT	false	10 min
Sent Messages per Minute	SentMessages1m	none	THROUGHPUT	true	10 min
Sent Bytes	SentBytes	B	THROUGHPUT	false	10 min
Sent Bytes per Minute	SentBytes1m	B	THROUGHPUT	true	10 min
Received Bytes	ReceivedBytes	B	THROUGHPUT	false	10 min
Received Bytes per Minute	ReceivedBytes1m	B	THROUGHPUT	true	10 min
Timer Threads	TimerThreads	none	THROUGHPUT	true	5 min
Tasks In Timer	TasksInTimer	none	THROUGHPUT	true	5 min

Configuration Help**JBoss 5.0 JMS QUEUE Destination Service**

This topic details the JBoss 5.0 JMS QUEUE Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-75. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-76. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Delivering Count	DeliveringCount	none	UTILIZATION	true	5 min
Consumer Count	ConsumerCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 5.0 JMS Topic Service**

This topic details the JBoss 5.0 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-77. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-78. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptionsCount	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 5.0 Message Driven EJB Service**

This topic details the JBoss 5.0 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-79. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Min Pool Size	MinPoolSize	none	UTILIZATION	false	5 min
Max Messages	MaxMessages	none	UTILIZATION	false	5 min
Keep AliveMillis	KeepAliveMillis	sec	UTILIZATION	false	30 min
Max Pool Size	MaxPoolSize	none	UTILIZATION	true	5 min

Configuration Help**JBoss 5.0 Stateful Session EJB Service**

This topic details the JBoss 5.0 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-80. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cache Size	CacheSize	none	UTILIZATION	true	5 min
Available Count	AvailableCount	none	UTILIZATION	false	5 min
Max Size	MaxSize	none	UTILIZATION	false	5 min
Total Size	TotalSize	none	UTILIZATION	false	5 min
Current Size	CurrentSize	none	UTILIZATION	true	5 min
Create Count	CreateCount	none	UTILIZATION	false	10 min
Create Count per Minute	CreateCount1m	none	UTILIZATION	false	10 min
Remove Count	RemoveCount	none	UTILIZATION	false	10 min
Remove Count per Minute	RemoveCount1m	none	UTILIZATION	false	10 min
Passivated Count	PassivatedCount	none	UTILIZATION	false	10 min
Passivated Count per Minute	PassivatedCount1m	none	UTILIZATION	false	10 min

Configuration Help**JBoss 5.0 Stateless Session EJB Service**

This topic details the JBoss 5.0 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-81. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
AvailableCount	AvailableCount	none	UTILIZATION	true	5 min
MaxSize	MaxSize	none	UTILIZATION	false	5 min
CurrentSize	CurrentSize	none	UTILIZATION	false	5 min
CreateCount	CreateCount	none	UTILIZATION	false	10 min
CreateCount per Minute	CreateCount1m	none	UTILIZATION	false	10 min
RemoveCount	RemoveCount	none	UTILIZATION	false	10 min
RemoveCount per Minute	RemoveCount1m	none	UTILIZATION	false	10 min

Configuration Help**JBoss 5.0 Webapp Service**

This topic details the JBoss 5.0 Webapp Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-82. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Cache MaxSize	cacheMaxSize	none	THROUGHPUT	true	5 min
Access Count	accessCount	none	UTILIZATION	true	5 min
Cache Size	cacheSize	none	UTILIZATION	true	5 min
Hits Count	hitsCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 4.3 Server**

This topic details the JBoss 4.3 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-83. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-84. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min

Table 23-84. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min
JMS Message Cache Size	TotalCacheSize	none	UTILIZATION	false	5 min
JMS Message Cache Hits	CacheHits	none	THROUGHPUT	false	10 min
JMS Message Cache Hits per Minute	CacheHits1m	none	THROUGHPUT	false	10 min
JMS Message Cache Misses	CacheMisses	none	THROUGHPUT	false	10 min
JMS Message Cache Misses per Minute	CacheMisses1m	none	THROUGHPUT	false	10 min
JMS Message Cache Current Memory Usage	CurrentMemory Usage	B	UTILIZATION	false	5 min
JMS Message Cache High Memory Mark	HighMemoryMark	B	UTILIZATION	false	30 min
JMS Message Cache Max Memory Mark	MaxMemoryMark	B	UTILIZATION	false	30 min

Configuration Help

JBoss 4.3 EJB3 Service

This topic details the JBoss 4.3 EJB3 Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-85. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.3 Entity EJB Service**

This topic details the JBoss 4.3 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-86. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Ready Beans	StatisticReadyCount	none	UTILIZATION	false	5 min
Pooled Beans	StatisticPooledCount	none	UTILIZATION	false	5 min
CacheSize	CacheSize	none	UTILIZATION	false	5 min
PassivatedCount	PassivatedCount	none	UTILIZATION	false	10 min
PassivatedCount per Minute	PassivatedCount1m	none	UTILIZATION	false	10 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.3 Hibernate Session Factory Service**

This topic details the JBoss 4.3 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-87. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min

Table 23-87. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Entity Insert Count per Minute	EntityInsertCount1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min
Entity Update Count per Minute	EntityUpdateCount1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount1m	none	THROUGHPUT	false	10 min
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min

Table 23-87. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help**JBoss 4.3 JCA Connection Pool Service**

This topic details the JBoss 4.3 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-88. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, restart, flush

Table 23-89. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.3 JCA Data Source Service**

This topic details the JBoss 4.3 JCA Data Source Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-90. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.3 JGroups Channel Service**

This topic details the JBoss 4.3 JGroups Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-91. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Messages	NumberofMessages	none	THROUGHPUT	false	10 min
Number of Messages per Minute	NumberofMessages1m	none	THROUGHPUT	true	10 min
Sent Messages	SentMessages	none	THROUGHPUT	false	10 min
Sent Messages per Minute	SentMessages1m	none	THROUGHPUT	true	10 min
Sent Bytes	SentBytes	B	THROUGHPUT	false	10 min
Sent Bytes per Minute	SentBytes1m	B	THROUGHPUT	true	10 min
Received Bytes	ReceivedBytes	B	THROUGHPUT	false	10 min
Received Bytes per Minute	ReceivedBytes1m	B	THROUGHPUT	true	10 min

Configuration Help**JBoss 4.3 JMS Destination Service**

This topic details the JBoss 4.3 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-92. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-93. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Receivers Count	ReceiversCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 4.3 JMS QUEUE Destination Service**

This topic details the JBoss 4.3 JMS QUEUE Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-94. Custom Properties Supported

Name	Description
RedeliveryDelay	Redelivery Delay
JNDIName	JNDI Name
ServerPeer	Server Peer
CreatedProgrammatically	Created Programmatically
MaxSize	Max Size
FullSize	Full Size
PageSize	Page Size
DownCacheSize	Down Cache Size
Clustered	Clustered
MaxDeliveryAttempts	Max Delivery Attempts
MessageCount	All Message Count
ConsumerCount	All Subscriptions Count

Supported Control Actions: stop, start, removeAllMessages

Table 23-95. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Delivering Count	MessageCount	none	THROUGHPUT	true	5 min
Consumer Count	ConsumerCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help

JBoss 4.3 JMS Topic Service

This topic details the JBoss 4.3 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-96. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
RedeliveryDelay	Redelivery Delay
ServerPeer	Server Peer
JNDIName	JNDI Name
CreatedProgrammatically	Created Programmatically
MaxSize	Max Size
FullSize	Full Size
PageSize	Page Size
DownCacheSize	Down Cache Size
Clustered	Clustered
MaxDeliveryAttempts	Max Delivery Attempts
AllMessageCount	All Message Count
AllSubscriptionsCount	All Subscriptions Count

Supported Control Actions: stop, start, removeAllMessages

Table 23-97. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptions Count	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 4.3 Message Driven EJB Service**

This topic details the JBoss 4.3 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-98. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	false	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Messages Received	StatisticMessageCount	none	UTILIZATION	false	10 min
Messages Received per Minute	StatisticMessageCount1m	none	UTILIZATION	true	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.3 Stateful Session EJB Service**

This topic details the JBoss 4.3 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-99. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	true	5 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	5 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
Passive Beans	StatisticPassiveCount	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.3 Stateless Session EJB Service**

This topic details the JBoss 4.3 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-100. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.2 Server**

This topic details the JBoss 4.2 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-101. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-102. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min
JMS Message Cache Size	TotalCacheSize	none	UTILIZATION	false	5 min
JMS Message Cache Hits	CacheHits	none	THROUGHPUT	false	10 min
JMS Message Cache Hits per Minute	CacheHits1m	none	THROUGHPUT	false	10 min
JMS Message Cache Misses	CacheMisses	none	THROUGHPUT	false	10 min
JMS Message Cache Misses per Minute	CacheMisses1m	none	THROUGHPUT	false	10 min
JMS Message Cache Current Memory Usage	CurrentMemoryUsage	B	UTILIZATION	false	5 min
JMS Message Cache High Memory Mark	HighMemoryMark	B	UTILIZATION	false	30 min
JMS Message Cache Max Memory Mark	MaxMemoryMark	B	UTILIZATION	false	30 min

Configuration Help

JBoss 4.2 EJB3 Service

This topic details the JBoss 4.2 EJB3 Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-103. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 4.2 Entity EJB Service

This topic details the JBoss 4.2 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-104. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Ready Beans	StatisticReadyCount	none	UTILIZATION	false	5 min
Pooled Beans	StatisticPooledCount	none	UTILIZATION	false	5 min
CacheSize	CacheSize	none	UTILIZATION	false	5 min
PassivatedCount	PassivatedCount	none	UTILIZATION	false	10 min
PassivatedCount per Minute	PassivatedCount1m	none	UTILIZATION	false	10 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 4.2 Hibernate Session Factory Service

This topic details the JBoss 4.2 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-105. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min
Entity Insert Count per Minute	EntityInsertCount1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min
Entity Update Count per Minute	EntityUpdateCount1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount1m	none	THROUGHPUT	false	10 min
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min

Table 23-105. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min

Table 23-105. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help**JBoss 4.2 JCA Connection Pool Service**

This topic details the JBoss 4.2 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-106. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, restart, flush

Table 23-107. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.2 JCA Data Source Service**

This topic details the JBoss 4.2 JCA Data Source Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-108. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 4.2 JGroups Channel Service

This topic details the JBoss 4.2 JGroups Channel Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-109. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Number of Messages	NumberofMessages	none	THROUGHPUT	false	10 min
Number of Messages per Minute	NumberofMessages1m	none	THROUGHPUT	true	10 min
Sent Messages	SentMessages	none	THROUGHPUT	false	10 min
Sent Messages per Minute	SentMessages1m	none	THROUGHPUT	true	10 min
Sent Bytes	SentBytes	B	THROUGHPUT	false	10 min
Sent Bytes per Minute	SentBytes1m	B	THROUGHPUT	true	10 min
Received Bytes	ReceivedBytes	B	THROUGHPUT	false	10 min
Received Bytes per Minute	ReceivedBytes1m	B	THROUGHPUT	true	10 min

Configuration Help

JBoss 4.2 JMS Destination Service

This topic details the JBoss 4.2 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-110. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay

Table 23-110. Custom Properties Supported (Continued)

Name	Description
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-111. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Receivers Count	ReceiversCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help

JBoss 4.2 JMS Topic Service

This topic details the JBoss 4.2 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-112. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-113. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptionsCount	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min

Table 23-113. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 4.2 Message Driven EJB Service**

This topic details the JBoss 4.2 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-114. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	false	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Messages Received	StatisticMessageCount	none	UTILIZATION	false	10 min
Messages Received per Minute	StatisticMessageCount1m	none	UTILIZATION	true	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.2 Stateful Session EJB Service**

This topic details the JBoss 4.2 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-115. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	true	5 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	5 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
Passive Beans	StatisticPassiveCount	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.2 Stateless Session EJB Service**

This topic details the JBoss 4.2 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-116. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.0 Server**

This topic details the metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-117. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-118. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min
JMS Message Cache Size	TotalCacheSize	none	UTILIZATION	false	5 min
JMS Message Cache Hits	CacheHits	none	THROUGHPUT	false	10 min
JMS Message Cache Hits per Minute	CacheHits1m	none	THROUGHPUT	false	10 min
JMS Message Cache Misses	CacheMisses	none	THROUGHPUT	false	10 min
JMS Message Cache Misses per Minute	CacheMisses1m	none	THROUGHPUT	false	10 min
JMS Message Cache Current Memory Usage	CurrentMemoryUsage	B	UTILIZATION	false	5 min

Table 23-118. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
JMS Message Cache High Memory Mark	HighMemoryMark	B	UTILIZATION	false	30 min
JMS Message Cache Max Memory Mark	MaxMemoryMark	B	UTILIZATION	false	30 min

Configuration Help

JBoss 4.0 EJB3 Service

This topic details the JBoss 4.0 EJB3 Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-119. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 4.0 Entity EJB Service

This topic details the JBoss 4.0 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-120. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Ready Beans	StatisticReadyCount	none	UTILIZATION	false	5 min
Pooled Beans	StatisticPooledCount	none	UTILIZATION	false	5 min
CacheSize	CacheSize	none	UTILIZATION	false	5 min

Table 23-120. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
PassivatedCount	PassivatedCount	none	UTILIZATION	false	10 min
PassivatedCount per Minute	PassivatedCount 1m	none	UTILIZATION	false	10 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 4.0 Hibernate Session Factory Service

This topic details the JBoss 4.0 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-121. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min
Entity Insert Count per Minute	EntityInsertCount 1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min
Entity Update Count per Minute	EntityUpdateCount 1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount 1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount 1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount 1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount 1m	none	THROUGHPUT	false	10 min

Table 23-121. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min

Table 23-121. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help

JBoss 4.0 JCA Connection Pool Service

This topic details the JBoss 4.0 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-122. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, restart, flush

Table 23-123. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min

Table 23-123. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.0 JCA Data Source Service**

This topic details the JBoss 4.0 JCA Data Source Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: stop, start

Table 23-124. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.0 JMS Destination Service**

This topic details the JBoss 4.0 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-125. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-126. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Receivers Count	ReceiversCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help

JBoss 4.0 JMS Topic Service

This topic details the JBoss 4.0 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-127. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-128. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptionsCount	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 4.0 Message Driven EJB Service**

This topic details the JBoss 4.0 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-129. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	false	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Messages Received	StatisticMessageCount	none	UTILIZATION	false	10 min
Messages Received per Minute	StatisticMessageCount1m	none	UTILIZATION	true	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.0 Stateful Session EJB Service**

This topic details the JBoss 4.0 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-130. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	true	5 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	5 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
Passive Beans	StatisticPassiveCount	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 4.0 Stateless Session EJB Service**

This topic details the JBoss 4.0 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-131. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 3.2 Server**

This topic details the JBoss 3.2 Server metrics.

Log Track Supported: Yes

Config Track Supported: Yes

Table 23-132. Custom Properties Supported

Name	Description
version	JBoss Version
JavaVersion	Java Version
JavaVendor	Java Vendor
BuildDate	Build Date
VersionName	Version Name

Supported Control Actions: stop, start, restart, runGarbageCollector

Table 23-133. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Thread Count	ActiveThreadCount	none	THROUGHPUT	true	5 min
Active Thread Group Count	ActiveThreadGroupCount	none	THROUGHPUT	false	5 min
JVM Free Memory	FreeMemory	B	UTILIZATION	false	5 min
JVM Total Memory	TotalMemory	B	UTILIZATION	true	5 min
JVM Max Memory	MaxMemory	B	UTILIZATION	false	30 min
Transactions Active	TxCount	none	UTILIZATION	false	5 min
Transactions Committed	TxCommits	none	UTILIZATION	false	10 min
Transactions Committed per Minute	TxCommits1m	none	UTILIZATION	false	10 min
Transactions Rolledback	TxRollbacks	none	UTILIZATION	false	10 min
Transactions Rolledback per Minute	TxRollbacks1m	none	UTILIZATION	false	10 min
JMS Message Cache Size	TotalCacheSize	none	UTILIZATION	false	5 min
JMS Message Cache Hits	CacheHits	none	THROUGHPUT	false	10 min
JMS Message Cache Hits per Minute	CacheHits1m	none	THROUGHPUT	false	10 min
JMS Message Cache Misses	CacheMisses	none	THROUGHPUT	false	10 min
JMS Message Cache Misses per Minute	CacheMisses1m	none	THROUGHPUT	false	10 min
JMS Message Cache Current Memory Usage	CurrentMemoryUsage	B	UTILIZATION	false	5 min
JMS Message Cache High Memory Mark	HighMemoryMark	B	UTILIZATION	false	30 min
JMS Message Cache Max Memory Mark	MaxMemoryMark	B	UTILIZATION	false	30 min

Configuration Help

JBoss 3.2 Entity EJB Service

This topic details the JBoss 3.2 Entity EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-134. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Ready Beans	StatisticReadyCount	none	UTILIZATION	false	5 min
Pooled Beans	StatisticPooledCount	none	UTILIZATION	false	5 min
CacheSize	CacheSize	none	UTILIZATION	false	5 min
PassivatedCount	PassivatedCount	none	UTILIZATION	false	10 min
PassivatedCount per Minute	PassivatedCount1m	none	UTILIZATION	false	10 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 3.2 Hibernate Session Factory Service

This topic details the JBoss 3.2 Hibernate Session Factory Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-135. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Entity Insert Count	EntityInsertCount	none	THROUGHPUT	false	10 min
Entity Insert Count per Minute	EntityInsertCount1m	none	THROUGHPUT	true	10 min
Query Execution Max Time	QueryExecutionMaxTime	ms	PERFORMANCE	true	5 min
Entity Update Count	EntityUpdateCount	none	THROUGHPUT	false	10 min

Table 23-135. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Entity Update Count per Minute	EntityUpdateCount1m	none	THROUGHPUT	false	10 min
Collection Update Count	CollectionUpdateCount	none	THROUGHPUT	false	10 min
Collection Update Count per Minute	CollectionUpdateCount1m	none	THROUGHPUT	false	10 min
Entity Load Count	EntityLoadCount	none	THROUGHPUT	false	10 min
Entity Load Count per Minute	EntityLoadCount1m	none	THROUGHPUT	false	10 min
Entity Fetch Count	EntityFetchCount	none	THROUGHPUT	false	10 min
Entity Fetch Count per Minute	EntityFetchCount1m	none	THROUGHPUT	true	10 min
Entity Delete Count	EntityDeleteCount	none	THROUGHPUT	false	10 min
Entity Delete Count per Minute	EntityDeleteCount1m	none	THROUGHPUT	false	10 min
Collection Recreate Count	CollectionRecreateCount	none	THROUGHPUT	false	10 min
Collection Recreate Count per Minute	CollectionRecreateCount1m	none	THROUGHPUT	false	10 min
Query Execution Count	QueryExecutionCount	none	THROUGHPUT	false	10 min
Query Execution Count per Minute	QueryExecutionCount1m	none	THROUGHPUT	true	10 min
Flush Count	FlushCount	none	THROUGHPUT	false	10 min
Flush Count per Minute	FlushCount1m	none	THROUGHPUT	false	10 min
Collection Load Count	CollectionLoadCount	none	THROUGHPUT	false	10 min
Collection Load Count per Minute	CollectionLoadCount1m	none	THROUGHPUT	false	10 min
Successful Transaction Count	SuccessfulTransactionCount	none	THROUGHPUT	false	10 min
Successful Transaction Count per Minute	SuccessfulTransactionCount1m	none	THROUGHPUT	false	10 min
Query Cache Hit Count	QueryCacheHitCount	none	THROUGHPUT	false	10 min
Query Cache Hit Count per Minute	QueryCacheHitCount1m	none	THROUGHPUT	false	10 min
Collection Remove Count	CollectionRemoveCount	none	THROUGHPUT	false	10 min
Collection Remove Count per Minute	CollectionRemoveCount1m	none	THROUGHPUT	false	10 min
Connect Count	ConnectCount	none	THROUGHPUT	false	10 min

Table 23-135. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Connect Count per Minute	ConnectCount1m	none	THROUGHPUT	false	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	false	10 min
Second Level Cache Put Count	SecondLevelCachePutCount	none	THROUGHPUT	false	10 min
Second Level Cache Put Count per Minute	SecondLevelCachePutCount1m	none	THROUGHPUT	false	10 min
Query Cache Put Count	QueryCachePutCount	none	THROUGHPUT	false	10 min
Query Cache Put Count per Minute	QueryCachePutCount1m	none	THROUGHPUT	false	10 min
Session Open Count	SessionOpenCount	none	THROUGHPUT	false	10 min
Session Open Count per Minute	SessionOpenCount1m	none	THROUGHPUT	false	10 min
Transaction Count	TransactionCount	none	THROUGHPUT	false	10 min
Transaction Count per Minute	TransactionCount1m	none	THROUGHPUT	false	10 min
Collection Fetch Count	CollectionFetchCount	none	THROUGHPUT	false	10 min
Collection Fetch Count per Minute	CollectionFetchCount1m	none	THROUGHPUT	false	10 min
Session Close Count	SessionCloseCount	none	THROUGHPUT	false	10 min
Session Close Count per Minute	SessionCloseCount1m	none	THROUGHPUT	false	10 min
Query Cache Miss Count	QueryCacheMissCount	none	THROUGHPUT	false	10 min
Query Cache Miss Count per Minute	QueryCacheMissCount1m	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count	SecondLevelCacheMissCount	none	THROUGHPUT	false	10 min
Second Level Cache Miss Count per Minute	SecondLevelCacheMissCount1m	none	THROUGHPUT	false	10 min

Configuration Help

JBoss 3.2 JCA Connection Pool Service

This topic details the JBoss 3.2 JCA Connection Pool Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-136. Custom Properties Supported

Name	Description
Criteria	Connection Pool Criteria

Supported Control Actions: stop, start, restart, flush

Table 23-137. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Min Connections	MinSize	none	UTILIZATION	false	30 min
Max Connections	MaxSize	none	UTILIZATION	false	30 min
Total Connections	ConnectionCount	none	UTILIZATION	false	5 min
Available Connections	AvailableConnectionCount	none	UTILIZATION	true	5 min
Active Connections	InUseConnectionCount	none	UTILIZATION	true	5 min
Connections Created	ConnectionCreatedCount	none	UTILIZATION	false	10 min
Connections Created per Minute	ConnectionCreatedCount1m	none	UTILIZATION	false	10 min
Connections Destroyed	ConnectionDestroyedCount	none	UTILIZATION	false	10 min
Connections Destroyed per Minute	ConnectionDestroyedCount1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

JBoss 3.2 JMS Destination Service

This topic details the JBoss 3.2 JMS Destination Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-138. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-139. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Messages in Queue	MessageCount	none	THROUGHPUT	true	5 min
Receivers Count	ReceiversCount	none	UTILIZATION	true	5 min
Scheduled Message Count	ScheduledMessageCount	none	UTILIZATION	false	5 min

Configuration Help**JBoss 3.2 JMS Topic Service**

This topic details the JBoss 3.2 JMS Topic Service metrics.

Log Track Supported: No

Config Track Supported: No

Table 23-140. Custom Properties Supported

Name	Description
InMemory	In Memory
RedeliveryDelay	Redelivery Delay
RedeliveryLimit	Redelivery Limit
MaxDepth	Max Depth
JNDIName	JNDI Name

Supported Control Actions: stop, start, removeAllMessages

Table 23-141. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
All Subscriptions Count	AllSubscriptionsCount	none	UTILIZATION	true	5 min
Non Durable Subscriptions Count	NonDurableSubscriptionsCount	none	UTILIZATION	false	5 min
Durable Subscriptions Count	DurableSubscriptionsCount	none	UTILIZATION	true	5 min
All Message Count	AllMessageCount	none	THROUGHPUT	true	5 min
Durable Message Count	DurableMessageCount	none	THROUGHPUT	true	5 min
NonDurableMessageCount	NonDurableMessageCount	none	THROUGHPUT	false	5 min

Configuration Help**JBoss 3.2 Message Driven EJB Service**

This topic details the JBoss 3.2 Message Driven EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-142. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	false	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Messages Received	StatisticMessageCount	none	UTILIZATION	false	10 min
Messages Received per Minute	StatisticMessageCount1m	none	UTILIZATION	true	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 3.2 Stateful Session EJB Service**

This topic details the JBoss 3.2 Stateful Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-143. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	true	5 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	5 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
Passive Beans	StatisticPassiveCount	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help**JBoss 3.2 Stateless Session EJB Service**

This topic details the JBoss 3.2 Stateless Session EJB Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 23-144. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Create Calls	StatisticCreateCount	none	UTILIZATION	false	10 min
Create Calls per Minute	StatisticCreateCount1m	none	UTILIZATION	true	10 min
Remove Calls	StatisticRemoveCount	none	UTILIZATION	false	10 min
Remove Calls per Minute	StatisticRemoveCount1m	none	UTILIZATION	false	10 min
Method-Ready Beans	StatisticMethodReadyCount	none	UTILIZATION	false	5 min
PoolSize	CurrentSize	none	UTILIZATION	false	5 min
MaxPoolSize	MaxSize	none	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Network Device

This section provides general information for the Network Device plugin.

The Network Device plugin monitors SNMP-capable devices on your network.

The Network Device plugin uses SNMP GET requests to obtain resource statistics for the monitored device. If you want to create events for SNMP traps issued by a device, you can configure it to send traps to the vCenter Hyperic agent that manages it. It is not necessary to receive traps to obtain device metrics.

- [Network Device Resources and the vCenter Hyperic Inventory Model](#) on page 581
This section details the resource types in vCenter Hyperic that map to managed network device entities and the inventory level for each type in the vCenter Hyperic inventory model.
- [Network Device Configuration Instructions](#) on page 581
This sections provides instructions to configure the Network Device.
- [Privileges Required for Default SNMP Port](#) on page 585
This section explains the privileges required for the default SNMP port.
- [Network Device Management Functions](#) on page 585
This section details the network device management functions.

Network Device Resources and the vCenter Hyperic Inventory Model

This section details the resource types in vCenter Hyperic that map to managed network device entities and the inventory level for each type in the vCenter Hyperic inventory model.

The table below lists the resource types in vCenter Hyperic that map to managed network device entities. The right column indicates the inventory level for each type in the vCenter Hyperic inventory model.

Table 24-1. Hyperic Resource Type and Inventory Type

Hyperic Resource Type	Description	vCenter Hyperic Inventory Type
Network Device	An SNMP-capable device. n	platform
Network Device Interface	An interface on the network device.	platform service

Network Device Configuration Instructions

This sections provides instructions to configure the Network Device.

- [Network Device Configuration Options](#) on page 582
This topic details the Network Device configuration options.

- [Step 1: Configure the Network Device](#) on page 583

This section provides instructions to configure a platform of type "Network Device" to represent the device you wish to monitor, and select a vCenter Hyperic agent to collect device metrics.

- [Step 2: Configure Tracking of Trap Events \(Optional\)](#) on page 583

This section provides instructions for enabling the vCenter Hyperic agent to receive traps from a network device and to log events for traps it receives. This step is optional.

- [Step 3: Configure Alert Definitions \(Optional\)](#) on page 584

This section explains how to configure alert definitions for your managed network device resources.

- [Step 4: Define Dependency Relationships \(Optional\)](#) on page 584

If operating system platforms in your environment depend on the Network Device platform, you can define those dependencies using the Network Host Dependency Manager. This optional configuration is useful when vCenter Hyperic's hierarchical alerting feature is enabled.

Network Device Configuration Options

This topic details the Network Device configuration options.

The table below defines the options in the configuration schema for the Network Device platform type. These are the resource attributes that are displayed, and may be edited, on the Configuration Properties page for a Network Device.

Table 24-2. Network Device Configuration Options

Name	Description	Default	Optional	Type	Notes	Parent Schema
interface.index	Interface Index	ifDesc	no	N/A	Description table that maps a device's user-friendly name to an SNMP index. Values: <ul style="list-style-type: none"> ■ ifDescr ■ ifName ■ ifAlias ■ ifIndex 	net device plugin
snmpIp	SNMP agent IP address	127.0.0.1	N/A	N/A	N/A	snmp
snmpPort	SNMP agent port	161	N/A	N/A	N/A	snmp
snmpTransport	SNMP Transport	N/A	N/A	enum	Allowable values: udp, tcp	snmp
snmpVersion	SNMP Version	N/A	N/A	enum	Allowable values: v2c, v1, v3	snmp
snmpCommunity	SNMP Community	public	N/A	N/A	N/A	snmp
snmpUser	SNMP username (v3 only)	username	true	N/A	N/A	snmp

Table 24-2. Network Device Configuration Options (Continued)

Name	Description	Default	Optional	Type	Notes	Parent Schema
snmpPassword	SNMP password (v3 only)	password	true	secret	N/A	snmp
snmpAuthType	SNMP auth type (v3 only)	N/A	true	enum	Allowable values: md5, sha	snmp

Step 1: Configure the Network Device

This section provides instructions to configure a platform of type "Network Device" to represent the device you wish to monitor, and select a vCenter Hyperic agent to collect device metrics.

To create a platform for the remote device or host:

Procedure

- 1 From the **Tools** menu select **New Platform**.
- 2 Enter a name for your platform.
- 3 From the **Platform Type** pulldown, select **Network Device**.
- 4 Enter the FQDN of the network device or host.
- 5 From the **Agent Connection** pulldown list, select the Hyperic agent that will monitor the SNMP device.
- 6 Enter the IP address of the network device.

Do not use 127.0.0.1, even if the device is local to the agent being used for the SNMP connection. The netmask or MAC address of the device or server may be required depending on the configuration of the device.
- 7 Click **OK**.

The Configuration Properties page for the Network Device platform appears.
- 8 On the Configuration Properties page, enter values for the options that apply to the version of SNMP you selected.

Configuration options are defined in ["Network Device Configuration Options,"](#) on page 582.
- 9 Click **OK**.

Step 2: Configure Tracking of Trap Events (Optional)

This section provides instructions for enabling the vCenter Hyperic agent to receive traps from a network device and to log events for traps it receives. This step is optional.

On the network device:

Prerequisites

To enable the vCenter Hyperic agent to receive traps, add the following line to its `agent.properties` file.

```
snmpTrapReceiver.listenAddress=udp:0.0.0.0/1620
```

See ["Privileges Required for Default SNMP Port,"](#) on page 585.

Procedure

- 1 Verify that traps are enabled on the Network Device.

- 2 Set up the vCenter Hyperic agent as a trap destination on the network device, supplying the Hyperic agent's IP address and the SNMP port configured for the agent in step one.
- 3 In the **Monitoring** section of the Configuration Properties page for the network device in vCenter Hyperic, check the **Enable Log Tracking** option.
- 4 In the **Track Event Log Level** pulldown, select the severity-level threshold to limit tracking to traps with that level or higher.
 - Error - To track traps whose SNMP level is "Error" or higher. (Traps with SNMP severity level "Error", "Critical", "Alert", or "Emergency" will be tracked).
 - Warn - To track traps whose SNMP level is "Warning" or higher. (Traps with SNMP severity level "Warning", "Error", "Critical", "Alert", or "Emergency" will be tracked).
 - Info - To track traps whose SNMP level is "Informational" or higher. (Traps with SNMP severity level "Informational", "Warning", "Error", "Critical", "Alert", or "Emergency" will be tracked).
 - Debug - "Debug" to track all traps received, regardless of severity.
- 5 Enter a regular expression in **Log Pattern Match** to further filter the traps tracked to those that match the expression.
- 6 Enter a regular expression in **Log Pattern Exclude** to further filter the traps tracked to exclude those that match the expression.
- 7 Click **OK**.

Step 3: Configure Alert Definitions (Optional)

This section explains how to configure alert definitions for your managed network device resources.

Procedure

- ◆ Create alert definitions as desired for your managed network device resources. You can base alerts on device metrics, and on device traps, if you have configured the device to send traps to the vCenter Hyperic agent.

Step 4: Define Dependency Relationships (Optional)

If operating system platforms in your environment depend on the Network Device platform, you can define those dependencies using the Network Host Dependency Manager. This optional configuration is useful when vCenter Hyperic's hierarchical alerting feature is enabled.

With hierarchical alerting, the alert evaluation process for a resource takes into account the availability and alert status of the resource's parent. If you configure the relationship between a Network Device and the operating system platforms that depend on it, vCenter Hyperic will take the availability of the Network Device into account when evaluating alerts triggered for the operating system platforms - and so avoid firing redundant alerts when a problem with the Network Device makes dependent resources unavailable.

To define dependency relationships:

Procedure

- ◆ From the **Plugins** section on the **Administration** tab of the vCenter Hyperic user interface, select the **Network Host Dependency Manager**.

Privileges Required for Default SNMP Port

This section explains the privileges required for the default SNMP port.

The vCenter Hyperic agent's default UDP port for receiving traps is 162, in the privileged range, which the agent cannot access unless it runs as root (or as an Administrative user on Windows). If you run the agent under the context of a non-administrative user, configure a non-privileged port to receive SNMP traps, by adding the below property to its `agent.properties` file.

```
snmpTrapReceiver.listenAddress=udp:0.0.0.0/162
```

This enables the agent to receive traps through any interface on the platform at UDP port 1620. If desired, you can specify a specific interface's IP address, or different port in the unprivileged range (1024 or above). Restart the vCenter Hyperic agent after defining the listen address.

NOTE If you try to check that the SNMP port is open at this point, `netstat` will not show it open. Once you complete all steps in this procedure `netstat` output will produce expected results.

Network Device Management Functions

This section details the network device management functions.

The Network Device platform type is managed by vCenter Hyperic's `netdevice` plugin and performs the following functions.

- [Network Device Auto Discovery](#) on page 585
This section explains the network device's auto-discovery function.
- [Network Device Metric Collection](#) on page 586
This section defines the metrics supported by the Network Device plugin.

Network Device Auto Discovery

This section explains the network device's auto-discovery function.

The `netdevice` plugin discovers each interface on the device, and creates a platform service of type "Network Device Interface" for each. The plugin discovers the values of the following properties for each interface.

- IP Address
- Netmask
- Maximum Transmission Unit
- Physical Address - `macaddress`
- Bandwidth - Interface speed
- Interface Name
- The name of a Network Device Interface resource is formed by concatenating the following resource data:
 - The parent Network Device's Fully Qualified Domain Name.
 - The Network Device Interface's Interface Name.
 - The string "Interface".
 - The Network Device Interface's Physical Address.

For example, this name: `sfo-gw.hyperic.net sfo-gw.hyperic.net bgroup0/0 Interface (0:23:9c:81:10:e)`.

- The Parent Network Device's Fully Qualified Domain Name is *sfo-gw.hyperic.net*.
- The Interface Name is *bgrou0/0*.
- The Physical Address is *0:23:9c:81:10:e*.

Network Device Metric Collection

This section defines the metrics supported by the Network Device plugin.

- [Access the Metric Collection](#) on page 586
This section explains how to access the current metric collection settings (default) for a resource type on its Monitoring Defaults page.
- [Network Device Metrics](#) on page 586
This topic details the Network Device metrics.
- [Network Interface Metrics](#) on page 588
This topic details the Network Interface metrics.

Access the Metric Collection

This section explains how to access the current metric collection settings (default) for a resource type on its Monitoring Defaults page.

Procedure

- 1 From the **Administration** tab, click **Monitoring Defaults**.
- 2 Scroll down to the resource type and select one of the following:
 - Network Device
 - Network Device Interface
- 3 Click **Edit Metric Template**.

NOTE any modification to a resource type's monitoring defaults will automatically apply to all resources of that type in inventory. Although not recommended as a general practice, it is possible to configure metric collection settings for individual resources, overwriting the defaults for the resource type. For this reason, when considering changes to a resource type's monitoring defaults, be aware that updates will affect resources whose default settings have been customized: Resource-level metric collection settings are overwritten when the resource type monitoring defaults are modified.

Network Device Metrics

This topic details the Network Device metrics.

Table 24-3. Supported Metrics

Metric Name	Definition
Availability	N/A
Engine Uptime	N/A
Uptime	N/A
Bytes Received Bytes Received per Minute	N/A
Bytes Received Bytes Received per Minute	N/A

Table 24-3. Supported Metrics (Continued)

Metric Name	Definition
IP Forwards IP Forwards per Second	The number of input datagrams for which this entity was not their final IP destination, as a result of which an attempt was made to find a route to forward them to that final destination. In entities which do not act as IP routers, this counter will include only those packets which were Source-Routed via this entity, and the Source-Route option processing was successful."
IP Fragmented Creates IP Fragmented Creates per Second	The number of IP datagram fragments that have been generated as a result of fragmentation at this entity."
IP Fragmented Failures IP Fragmented Failures per Second	The number of IP datagrams that have been discarded because they needed to be fragmented at this entity but could not be, e.g., because their Don't Fragment flag was set."
IP Fragmented OK IP Fragmented OK per Second	The number of IP datagrams that have been successfully fragmented at this entity.
IP In Address Errors IP In Address Errors per Second	"The number of input datagrams discarded because the IP address in their IP header's destination field was not a valid address to be received at this entity. This count includes invalid addresses (e.g., 0.0.0.0) and addresses of unsupported Classes (e.g., Class E). For entities which are not IP routers and therefore do not forward datagrams, this counter includes datagrams discarded because the destination address was not a local address.
IP In Delivers IP In Delivers per Second	The total number of input datagrams successfully delivered to IP user-protocols (including ICMP)
IP In Discards IP In Discards per Second	The number of input IP datagrams for which no problems were encountered to prevent their continued processing, but which were discarded (e.g., for lack of buffer space). Note that this counter does not include any datagrams discarded while awaiting re-assembly."
IP In Header Errors IP In Header Errors per Second	The number of input datagrams discarded due to errors in their IP headers, including bad checksums, version number mismatch, other format errors, time-to-live exceeded, errors discovered in processing their IP options, etc.
IP In Receives IP In Receives per Second	The total number of input datagrams received from interfaces, including those received in error.
IP In Unknown Protocol IP In Unknown Protocol per Second	The number of locally-addressed datagrams received successfully but discarded because of an unknown or unsupported protocol.
IP Out Discards IP Out Discards per Second	The number of output IP datagrams for which no problem was encountered to prevent their transmission to their destination, but which were discarded (e.g., for lack of buffer space). Note that this counter would include datagrams counted in ipForwDatagrams if any such packets met this (discretionary) discard criterion.
IP Out No Routes IP Out No Routes per Second	The number of IP datagrams discarded because no route could be found to transmit them to their destination. Note that this counter includes any packets counted in ipForwDatagrams which meet this 'no-route' criterion. Note that this includes any datagrams which a host cannot route because all of its default routers are down.

Table 24-3. Supported Metrics (Continued)

Metric Name	Definition
IP Out Requests IP Out Requests per Second	The total number of IP datagrams which local IP user-protocols (including ICMP) supplied to IP in requests for transmission. Note that this counter does not include any datagrams counted in ipForwDatagrams.
IP Reassembles Failed IP Reassembles Failed per Second	The number of failures detected by the IP re-assembly algorithm (for whatever reason: timed out, errors, etc). Note that this is not necessarily a count of discarded IP fragments since some algorithms (notably the algorithm in RFC 815) can lose track of the number of fragments by combining them as they are received.
IP Reassembles OK IP Reassembles OK per Second	The number of IP datagrams successfully re-assembled.
IP Reassembles Required IP Reassembles Required per Second	The number of IP fragments received which needed to be reassembled at this entity.
Number of Processes	N/A
Number of Users	N/A

Network Interface Metrics

This topic details the Network Interface metrics.

Table 24-4. Supported Metrics

Metric	Definition
Admin Status	The desired state of the interface. The testing(3) state indicates that no operational packets can be passed. When a managed system initializes, all interfaces start with ifAdminStatus in the down(2) state. As a result of either explicit management action or per configuration information retained by the managed system, ifAdminStatus is then changed to either the up(1) or testing(3) states (or remains in the down(2) state).
Availability	N/A
Last Change	The value of sysUpTime at the time the interface entered its current operational state. If the current state was entered prior to the last re-initialization of the local network management subsystem, then this object contains a zero value. (units="jiffies")
Operational Status	The current operational state of the interface. The testing(3) state indicates that no operational packets can be passed. If ifAdminStatus is down(2) then ifOperStatus should be down(2). If ifAdminStatus is changed to up(1) then ifOperStatus should change to up(1) if the interface is ready to transmit and receive network traffic; it should change to dormant(5) if the interface is waiting for external actions (such as a serial line waiting for an incoming connection); it should remain in the down(2) state if and only if there is a fault that prevents it from going to the up(1) state; it should remain in the notPresent(6) state if the interface has missing (typically, hardware) components.
Bits Received Bits Received per Second	N/A

Table 24-4. Supported Metrics (Continued)

Metric	Definition
Bits Sent Bits Sent per Second	<p>The total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at this sub-layer, including those that were discarded or not sent.</p> <p>Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Bytes Received Bytes Received per Minute	<p>The total number of octets received on the interface, including framing characters. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Bytes Sent Bytes Sent per Minute	<p>The total number of octets transmitted out of the interface, including framing characters.</p> <p>Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Inbound Errors Inbound Errors per Second	<p>For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol. For character-oriented or fixed-length interfaces, the number of inbound transmission units that contained errors preventing them from being deliverable to a higher-layer protocol.</p> <p>Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Inbound Multicast Packets Inbound Multicast Packets per Second	<p>The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast or broadcast address at this sub-layer.</p> <p>Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Inbound Packet Discards Inbound Packet Discards per Second	<p>The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space.</p> <p>Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Inbound Packets Inbound Packets per Second	<p>The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer.</p> <p>Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code>.</p>
Outbound Errors Outbound Errors per Second	N/A

Table 24-4. Supported Metrics (Continued)

Metric	Definition
Outbound Multicast Packets Outbound Multicast Packets per Second	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast or broadcast address at this sub-layer, including those that were discarded or not sent. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of <code>ifCounterDiscontinuityTime</code> .
Outbound Packet Discards Outbound Packet Discards per Second	N/A
Outbound Packets Outbound Packets Queues	N/A
Outbound Packets Queues per Second Outbound Packets per Second	N/A

Microsoft SQL Server

This section provides general information for the Microsoft SQL Server

Supported Versions and Requirements

The Microsoft SQL Server plugin supports:

- Microsoft SQL Server 2012
- Microsoft SQL Server 2008 R2
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2005

SQL Server Resources and the vCenter Hyperic Inventory Model

The indented list below illustrates the hierarchy of vCenter Hyperic resource types that map to SQL Server.

- MsSQL
- MsSQL Database

In terms of the vCenter Hyperic inventory model:

- The MsSQL resource type is a "server".
- The MsSQL Database resource type is a "service". If there are multiple databases running in SQL Server, there will be multiple MsSQL Database services below the MsSQL server instance.

- [Microsoft SQL Configuration Instructions](#) on page 591

This section provides instructions for configuring vCenter Hyperic to manage SQL Server.

- [Microsoft SQL Resource Types and Management Functions](#) on page 592

This section describes the management functions the Microsoft SQL plugin performs for Microsoft SQL components.

- [Microsoft SQL Server Metrics](#) on page 593

This section details the metrics for Microsoft SQL Server.

Microsoft SQL Configuration Instructions

This section provides instructions for configuring vCenter Hyperic to manage SQL Server.

- [Step 1: Install vCenter Hyperic Agent](#) on page 592

This section explains how to install a vCenter Hyperic agent.

- [Step 2: Import SQL Server Resource](#) on page 592
This section explains how to import the SQL Server resource.
- [Step 3: Configure SQL Server in vCenter Hyperic](#) on page 592
This section explains how to configure the SQL Server in vCenter Hyperic.
- [Step 4: Verify Metric Configuration](#) on page 592
This section explains how to verify the metric collection.

Step 1: Install vCenter Hyperic Agent

This section explains how to install a vCenter Hyperic agent.

Procedure

- ◆ If you have not already done so, install a vCenter Hyperic agent on the Microsoft SQL Server host. See the *Getting Started with vCenter Hyperic* for instructions.

Step 2: Import SQL Server Resource

This section explains how to import the SQL Server resource.

After you start the vCenter Hyperic agent, it should discover the SQL Server resource. The server should appear in the Auto-Discovery portlet on the vCenter Hyperic dashboard.

Procedure

- ◆ Import the server.

Step 3: Configure SQL Server in vCenter Hyperic

This section explains how to configure the SQL Server in vCenter Hyperic.

Procedure

- 1 Navigate to the Configuration Properties page for the SQL Server instance.
- 2 Enter the username for connecting to SQL Server in the **mssql.user** field.
- 3 Enter password for connecting to SQL Server in the **mssql.password** field.
- 4 To enable log tracking, check the **server.log_track.enable** box.

Step 4: Verify Metric Configuration

This section explains how to verify the metric collection.

Procedure

- ◆ Verify that the metrics appear on the Monitor tab for an SQL Server resource.

Microsoft SQL Resource Types and Management Functions

This section describes the management functions the Microsoft SQL plugin performs for Microsoft SQL components.

- [MS SQL Auto-Discovery](#) on page 593
This section explains Auto-Discovery for the Microsoft SQL plugin.
- [MS SQL Measurement](#) on page 593
This section explains the metric measurement for the SQL Server plugin.

- [MS SQL Controls](#) on page 593
This section details the control actions for the SQL Server plugin.
- [Microsoft SQL Log Tracking](#) on page 593
This section explains log tracking for the SQL Server plugin.

MS SQL Auto-Discovery

This section explains Auto-Discovery for the Microsoft SQL plugin.

The Microsoft SQL Server plugin discovers server resources by searching the Windows registry for the SOFTWARE\Microsoft\Microsoft SQL key.

MS SQL Measurement

This section explains the metric measurement for the SQL Server plugin.

The plugin class that obtains most metrics is `MSSQLMeasurementPlugin`, which extends the `Win32MeasurementPlugin` support class.

The plugin uses an SQL script to obtain the "Free Space Percentage" metric. (The script is included in the plugin XML descriptor.) Other metric values are obtained from Windows Performance Manager counters. For more information about the metrics reported, see "[Microsoft SQL Server Metrics](#)," on page 593.

MS SQL Controls

This section details the control actions for the SQL Server plugin.

The SQL Server plugin uses the `Win32ControlPlugin` support class to provide three control actions for server instances:

- stop
- start
- restart

Microsoft SQL Log Tracking

This section explains log tracking for the SQL Server plugin.

The SQL Server plugin uses `org.hyperic.hq.product.Win32EventLogTrackPlugin` for log tracking. When log tracking is enabled, the plugin captures events that contain the name of the SQL Server service in Windows, which corresponds to the plugin's `sqlserver_name` configuration option, by default `MSSQLSERVER`.

Microsoft SQL Server Metrics

This section details the metrics for Microsoft SQL Server.

- [MSSQL 2012 Server](#) on page 594
This topic details the MSSQL 2012 Server metrics.
- [MSSQL 2012 Database Service](#) on page 597
This topic details the MSSQL 2012 Database Service metrics.
- [MSSQL 2008 R2 Server](#) on page 597
This topic details the MSSQL 2008 R2 Server metrics.
- [MSSQL 2008 R2 Database Service](#) on page 600
This topic details the MSSQL 2008 R2 Database Service metrics.

- [MSSQL 2008 Server](#) on page 601
This topic details the MSSQL 2008 Server metrics.
- [MSSQL 2008 Database Service](#) on page 604
This topic details the MSSQL 2008 Database Service metrics.
- [MSSQL 2005 Server](#) on page 605
This topic details the MSSQL 2005 Server metrics.
- [MSSQL 2005 Database Service](#) on page 608
This topic details the MSSQL 2005 Database Service metrics.

MSSQL 2012 Server

This topic details the MSSQL 2012 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 25-1. Custom Properties Supported

Name	Description
version	SQL Server Version

Supported Control Actions: start, stop, restart

Table 25-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min

Table 25-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Full Scans	FullScans	none	UTILIZATION	false	10 min
Full Scans per Minute	FullScans1m	none	UTILIZATION	false	10 min
Worktables Created	WorktablesCreated	none	UTILIZATION	false	10 min
Worktables Created per Minute	WorktablesCreated1m	none	UTILIZATION	false	10 min
Workfiles Created	WorkfilesCreatedSec	none	UTILIZATION	false	10 min
Workfiles Created per Minute	WorkfilesCreatedSec1m	none	UTILIZATION	false	10 min
Worktables From Cache Ratio	WorktablesFromCacheRatio	none	UTILIZATION	false	5 min
Page Splits	PageSplitsSec	none	UTILIZATION	false	10 min
Page Splits per Minute	PageSplitsSec1m	none	UTILIZATION	false	10 min
Logins	Logins	none	UTILIZATION	false	10 min
Logins per Minute	Logins1m	none	UTILIZATION	false	10 min
Logouts	Logouts	none	UTILIZATION	false	10 min
Logouts per Minute	Logouts1m	none	UTILIZATION	false	10 min
User Connections	UserConnections	none	UTILIZATION	false	5 min
Connection Memory	ConnectionMemory	KB	UTILIZATION	false	5 min
Granted Workspace Memory	GrantedWorkspaceMemory	KB	UTILIZATION	false	5 min
Lock Memory	LockMemory	KB	UTILIZATION	false	5 min
Lock Blocks Allocated	LockBlocksAllocated	none	UTILIZATION	false	5 min
Lock Owner Blocks Allocated	LockOwnerBlocksAllocated	none	UTILIZATION	false	5 min
Lock Blocks	LockBlocks	none	UTILIZATION	false	5 min
Lock Owner Blocks	LockOwnerBlocks	none	UTILIZATION	false	5 min
Maximum Workspace Memory	MaximumWorkspaceMemory	KB	UTILIZATION	false	5 min
Memory Grants Outstanding	MemoryGrantsOutstanding	none	UTILIZATION	false	5 min
Memory Grants Pending	MemoryGrantsPending	none	UTILIZATION	false	5 min
Optimizer Memory	OptimizerMemory	KB	UTILIZATION	false	5 min
SQL Cache Memory	SQLCacheMemory	KB	UTILIZATION	false	5 min

Table 25-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Server Memory	TotalServerMemory	KB	UTILIZATION	false	5 min
Lock Requests	LockRequests	none	UTILIZATION	false	10 min
Lock Requests per Minute	LockRequests1m	none	UTILIZATION	true	10 min
Lock Timeouts	LockTimeouts	none	UTILIZATION	false	10 min
Lock Timeouts per Minute	LockTimeouts1m	none	UTILIZATION	false	10 min
Number of Deadlocks	NumDeadlocks	none	UTILIZATION	false	10 min
Number of Deadlocks per Minute	NumDeadlocks1m	none	UTILIZATION	false	10 min
Lock Waits	LockWaits	none	UTILIZATION	false	10 min
Lock Waits per Minute	LockWaits1m	none	UTILIZATION	true	10 min
Lock Wait Time	LockWaitTime	ms	UTILIZATION	false	5 min
Average Wait Time	AverageWaitTime	ms	UTILIZATION	false	5 min
Average Latch Wait Time	AverageLatchWaitTime	ms	UTILIZATION	false	5 min
Total Latch Wait Time	TotalLatchWaitTime	ms	UTILIZATION	false	5 min
Free pages	Freepages	none	UTILIZATION	false	5 min
Stolen pages	Stolenpages	none	UTILIZATION	false	5 min
Page life expectancy	PageLifeExpectancy	sec	UTILIZATION	false	5 min
Lazy Writes	LazyWrites	none	UTILIZATION	false	10 min
Lazy Writes per Minute	LazyWrites1m	none	UTILIZATION	false	10 min
Checkpoint Pages	CheckpointPages	none	UTILIZATION	false	10 min
Checkpoint Pages per Minute	CheckpointPages1m	none	UTILIZATION	false	10 min
Page reads	Pagereads	none	UTILIZATION	false	10 min
Page reads per Minute	Pagereads1m	none	UTILIZATION	false	10 min
Page writes	Pagewrites	none	UTILIZATION	false	10 min
Page writes per Minute	Pagewrites1m	none	UTILIZATION	false	10 min
Buffer Cache hit ratio	BufferCacheHitRatio	percent	UTILIZATION	false	5 min

Configuration Help

MSSQL 2012 Database Service

This topic details the MSSQL 2012 Database Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 25-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Database Free Percent	DatabaseFreePercent	percent	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min

Configuration Help

MSSQL 2008 R2 Server

This topic details the MSSQL 2008 R2 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 25-4. Custom Properties Supported

Name	Description
version	SQL Server Version

Supported Control Actions: start, stop, restart

Table 25-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min
Full Scans	FullScans	none	UTILIZATION	false	10 min
Full Scans per Minute	FullScans1m	none	UTILIZATION	false	10 min
Worktables Created	WorktablesCreated	none	UTILIZATION	false	10 min
Worktables Created per Minute	WorktablesCreated1m	none	UTILIZATION	false	10 min
Workfiles Created	WorkfilesCreatedSec	none	UTILIZATION	false	10 min
Workfiles Created per Minute	WorkfilesCreatedSec1m	none	UTILIZATION	false	10 min
Worktables From Cache Ratio	WorktablesFromCacheRatio	none	UTILIZATION	false	5 min
Page Splits	PageSplitsSec	none	UTILIZATION	false	10 min
Page Splits per Minute	PageSplitsSec1m	none	UTILIZATION	false	10 min

Table 25-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Logins	Logins	none	UTILIZATION	false	10 min
Logins per Minute	Logins1m	none	UTILIZATION	false	10 min
Logouts	Logouts	none	UTILIZATION	false	10 min
Logouts per Minute	Logouts1m	none	UTILIZATION	false	10 min
User Connections	UserConnections	none	UTILIZATION	false	5 min
Connection Memory	ConnectionMemory	KB	UTILIZATION	false	5 min
Granted Workspace Memory	GrantedWorkspaceMemory	KB	UTILIZATION	false	5 min
Lock Memory	LockMemory	KB	UTILIZATION	false	5 min
Lock Blocks Allocated	LockBlocksAllocated	none	UTILIZATION	false	5 min
Lock Owner Blocks Allocated	LockOwnerBlocksAllocated	none	UTILIZATION	false	5 min
Lock Blocks	LockBlocks	none	UTILIZATION	false	5 min
Lock Owner Blocks	LockOwnerBlocks	none	UTILIZATION	false	5 min
Maximum Workspace Memory	MaximumWorkspaceMemory	KB	UTILIZATION	false	5 min
Memory Grants Outstanding	MemoryGrantsOutstanding	none	UTILIZATION	false	5 min
Memory Grants Pending	MemoryGrantsPending	none	UTILIZATION	false	5 min
Optimizer Memory	OptimizerMemory	KB	UTILIZATION	false	5 min
SQL Cache Memory	SQLCacheMemory	KB	UTILIZATION	false	5 min
Total Server Memory	TotalServerMemory	KB	UTILIZATION	false	5 min
Lock Requests	LockRequests	none	UTILIZATION	false	10 min
Lock Requests per Minute	LockRequests1m	none	UTILIZATION	true	10 min
Lock Timeouts	LockTimeouts	none	UTILIZATION	false	10 min
Lock Timeouts per Minute	LockTimeouts1m	none	UTILIZATION	false	10 min
Number of Deadlocks	NumDeadlocks	none	UTILIZATION	false	10 min
Number of Deadlocks per Minute	NumDeadlocks1m	none	UTILIZATION	false	10 min
Lock Waits	LockWaits	none	UTILIZATION	false	10 min
Lock Waits per Minute	LockWaits1m	none	UTILIZATION	true	10 min

Table 25-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Lock Wait Time	LockWaitTime	ms	UTILIZATION	false	5 min
Average Wait Time	AverageWaitTime	ms	UTILIZATION	false	5 min
Average Latch Wait Time	AverageLatchWaitTime	ms	UTILIZATION	false	5 min
Total Latch Wait Time	TotalLatchWaitTime	ms	UTILIZATION	false	5 min
Free pages	Freepages	none	UTILIZATION	false	5 min
Stolen pages	Stolenpages	none	UTILIZATION	false	5 min
Page life expectancy	PageLifeExpectancy	sec	UTILIZATION	false	5 min
Lazy Writes	LazyWrites	none	UTILIZATION	false	10 min
Lazy Writes per Minute	LazyWrites1m	none	UTILIZATION	false	10 min
Checkpoint Pages	CheckpointPages	none	UTILIZATION	false	10 min
Checkpoint Pages per Minute	CheckpointPages1m	none	UTILIZATION	false	10 min
Page reads	Pagereads	none	UTILIZATION	false	10 min
Page reads per Minute	Pagereads1m	none	UTILIZATION	false	10 min
Page writes	Pagewrites	none	UTILIZATION	false	10 min
Page writes per Minute	Pagewrites1m	none	UTILIZATION	false	10 min
Buffer Cache hit ratio	BufferCacheHitRatio	percent	UTILIZATION	false	5 min

Configuration Help

MSSQL 2008 R2 Database Service

This topic details the MSSQL 2008 R2 Database Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 25-6. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Database Free Percent	DatabaseFreePercent	percent	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min

Table 25-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min

Configuration Help

MSSQL 2008 Server

This topic details the MSSQL 2008 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 25-7. Custom Properties Supported

Name	Description
version	SQL Server Version

Supported Control Actions: start, stop, restart

Table 25-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min

Table 25-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min
Full Scans	FullScans	none	UTILIZATION	false	10 min
Full Scans per Minute	FullScans1m	none	UTILIZATION	false	10 min
Worktables Created	WorktablesCreated	none	UTILIZATION	false	10 min
Worktables Created per Minute	WorktablesCreated1m	none	UTILIZATION	false	10 min
Workfiles Created	WorkfilesCreatedSec	none	UTILIZATION	false	10 min
Workfiles Created per Minute	WorkfilesCreatedSec1m	none	UTILIZATION	false	10 min
Worktables From Cache Ratio	WorktablesFromCacheRatio	none	UTILIZATION	false	5 min
Page Splits	PageSplitsSec	none	UTILIZATION	false	10 min
Page Splits per Minute	PageSplitsSec1m	none	UTILIZATION	false	10 min
Logins	Logins	none	UTILIZATION	false	10 min
Logins per Minute	Logins1m	none	UTILIZATION	false	10 min
Logouts	Logouts	none	UTILIZATION	false	10 min
Logouts per Minute	Logouts1m	none	UTILIZATION	false	10 min
User Connections	UserConnections	none	UTILIZATION	false	5 min
Connection Memory	ConnectionMemory	KB	UTILIZATION	false	5 min
Granted Workspace Memory	GrantedWorkspaceMemory	KB	UTILIZATION	false	5 min
Lock Memory	LockMemory	KB	UTILIZATION	false	5 min
Lock Blocks Allocated	LockBlocksAllocated	none	UTILIZATION	false	5 min

Table 25-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Lock Owner Blocks Allocated	LockOwnerBlocksAllocated	none	UTILIZATION	false	5 min
Lock Blocks	LockBlocks	none	UTILIZATION	false	5 min
Lock Owner Blocks	LockOwnerBlocks	none	UTILIZATION	false	5 min
Maximum Workspace Memory	MaximumWorkspaceMemory	KB	UTILIZATION	false	5 min
Memory Grants Outstanding	MemoryGrantsOutstanding	none	UTILIZATION	false	5 min
Memory Grants Pending	MemoryGrantsPending	none	UTILIZATION	false	5 min
Optimizer Memory	OptimizerMemory	KB	UTILIZATION	false	5 min
SQL Cache Memory	SQLCacheMemory	KB	UTILIZATION	false	5 min
Total Server Memory	TotalServerMemory	KB	UTILIZATION	false	5 min
Lock Requests	LockRequests	none	UTILIZATION	false	10 min
Lock Requests per Minute	LockRequests1m	none	UTILIZATION	true	10 min
Lock Timeouts	LockTimeouts	none	UTILIZATION	false	10 min
Lock Timeouts per Minute	LockTimeouts1m	none	UTILIZATION	false	10 min
Number of Deadlocks	NumDeadlocks	none	UTILIZATION	false	10 min
Number of Deadlocks per Minute	NumDeadlocks1m	none	UTILIZATION	false	10 min
Lock Waits	LockWaits	none	UTILIZATION	false	10 min
Lock Waits per Minute	LockWaits1m	none	UTILIZATION	true	10 min
Lock Wait Time	LockWaitTime	ms	UTILIZATION	false	5 min
Average Wait Time	AverageWaitTime	ms	UTILIZATION	false	5 min
Average Latch Wait Time	AverageLatchWaitTime	ms	UTILIZATION	false	5 min
Total Latch Wait Time	TotalLatchWaitTime	ms	UTILIZATION	false	5 min
Page life expectancy	PageLifeExpectancy	sec	UTILIZATION	false	5 min
Lazy Writes	LazyWrites	none	UTILIZATION	false	10 min
Lazy Writes per Minute	LazyWrites1m	none	UTILIZATION	false	10 min
Checkpoint Pages	CheckpointPages	none	UTILIZATION	false	10 min
Checkpoint Pages per Minute	CheckpointPages1m	none	UTILIZATION	false	10 min

Table 25-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Page reads	Pagereads	none	UTILIZATION	false	10 min
Page reads per Minute	Pagereads1m	none	UTILIZATION	false	10 min
Page writes	Pagewrites	none	UTILIZATION	false	10 min
Page writes per Minute	Pagewrites1m	none	UTILIZATION	false	10 min
Free pages	Freepages	none	UTILIZATION	false	5 min
Stolen pages	Stolenpages	none	UTILIZATION	false	5 min
Buffer Cache hit ratio	BufferCachehitratio	percent	UTILIZATION	false	5 min

Configuration Help

MSSQL 2008 Database Service

This topic details the MSSQL 2008 Database Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 25-9. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Database Free Percent	DatabaseFreePercent	percent	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min

Table 25-9. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min

Configuration Help

MSSQL 2005 Server

This topic details the MSSQL 2005 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 25-10. Custom Properties Supported

Name	Description
version	SQL Server Version

Supported Control Actions: start, stop, restart

Table 25-11. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min

Table 25-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Full Scans	FullScans	none	UTILIZATION	false	10 min
Full Scans per Minute	FullScans1m	none	UTILIZATION	false	10 min
Worktables Created	WorktablesCreated	none	UTILIZATION	false	10 min
Worktables Created per Minute	WorktablesCreated1m	none	UTILIZATION	false	10 min
Workfiles Created	WorkfilesCreatedSec	none	UTILIZATION	false	10 min
Workfiles Created per Minute	WorkfilesCreatedSec1m	none	UTILIZATION	false	10 min
Worktables From Cache Ratio	WorktablesFromCacheRatio	none	UTILIZATION	false	5 min
Page Splits	PageSplitsSec	none	UTILIZATION	false	10 min
Page Splits per Minute	PageSplitsSec1m	none	UTILIZATION	false	10 min
Logins	Logins	none	UTILIZATION	false	10 min
Logins per Minute	Logins1m	none	UTILIZATION	false	10 min
Logouts	Logouts	none	UTILIZATION	false	10 min
Logouts per Minute	Logouts1m	none	UTILIZATION	false	10 min
User Connections	UserConnections	none	UTILIZATION	false	5 min
Connection Memory	ConnectionMemory	KB	UTILIZATION	false	5 min
Granted Workspace Memory	GrantedWorkspaceMemory	KB	UTILIZATION	false	5 min
Lock Memory	LockMemory	KB	UTILIZATION	false	5 min
Lock Blocks Allocated	LockBlocksAllocated	none	UTILIZATION	false	5 min
Lock Owner Blocks Allocated	LockOwnerBlocksAllocated	none	UTILIZATION	false	5 min
Lock Blocks	LockBlocks	none	UTILIZATION	false	5 min
Lock Owner Blocks	LockOwnerBlocks	none	UTILIZATION	false	5 min
Maximum Workspace Memory	MaximumWorkspaceMemory	KB	UTILIZATION	false	5 min
Memory Grants Outstanding	MemoryGrantsOutstanding	none	UTILIZATION	false	5 min
Memory Grants Pending	MemoryGrantsPending	none	UTILIZATION	false	5 min
Optimizer Memory	OptimizerMemory	KB	UTILIZATION	false	5 min
SQL Cache Memory	SQLCacheMemory	KB	UTILIZATION	false	5 min

Table 25-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Server Memory	TotalServerMemory	KB	UTILIZATION	false	5 min
Lock Requests	LockRequests	none	UTILIZATION	false	10 min
Lock Requests per Minute	LockRequests1m	none	UTILIZATION	true	10 min
Lock Timeouts	LockTimeouts	none	UTILIZATION	false	10 min
Lock Timeouts per Minute	LockTimeouts1m	none	UTILIZATION	false	10 min
Number of Deadlocks	NumDeadlocks	none	UTILIZATION	false	10 min
Number of Deadlocks per Minute	NumDeadlocks1m	none	UTILIZATION	false	10 min
Lock Waits	LockWaits	none	UTILIZATION	false	10 min
Lock Waits per Minute	LockWaits1m	none	UTILIZATION	true	10 min
Lock Wait Time	LockWaitTime	ms	UTILIZATION	false	5 min
Average Wait Time	AverageWaitTime	ms	UTILIZATION	false	5 min
Average Latch Wait Time	AverageLatchWaitTime	ms	UTILIZATION	false	5 min
Total Latch Wait Time	TotalLatchWaitTime	ms	UTILIZATION	false	5 min
Page life expectancy	PageLifeExpectancy	sec	UTILIZATION	false	5 min
Lazy Writes	LazyWrites	none	UTILIZATION	false	10 min
Lazy Writes per Minute	LazyWrites1m	none	UTILIZATION	false	10 min
Checkpoint Pages	CheckpointPages	none	UTILIZATION	false	10 min
Checkpoint Pages per Minute	CheckpointPages1m	none	UTILIZATION	false	10 min
Page reads	PageReads	none	UTILIZATION	false	10 min
Page reads per Minute	PageReads1m	none	UTILIZATION	false	10 min
Page writes	PageWrites	none	UTILIZATION	false	10 min
Page writes per Minute	PageWrites1m	none	UTILIZATION	false	10 min
Free pages	FreePages	none	UTILIZATION	false	5 min
Stolen pages	StolenPages	none	UTILIZATION	false	5 min
Buffer Cache hit ratio	BufferCacheHitRatio	percent	UTILIZATION	false	5 min

Configuration Help

MSSQL 2005 Database Service

This topic details the MSSQL 2005 Database Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 25-12. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Database Free Percent	DatabaseFreePercent	percent	UTILIZATION	false	5 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Data File Size	DataFileSize	KB	UTILIZATION	true	5 min
Log File Size	LogFileSize	KB	UTILIZATION	false	5 min
Log File Used Size	LogFileUsedSize	KB	UTILIZATION	false	5 min
Percent Log Used	PercentLogUsed	percentage	UTILIZATION	false	5 min
Active Transactions	ActiveTransactions	none	THROUGHPUT	true	5 min
Transactions	Transactions	none	THROUGHPUT	false	10 min
Transactions per Minute	Transactions1m	none	THROUGHPUT	true	10 min
Transactions	Transactions	none	THROUGHPUT	false	5 min
Replication Pending Transactions	ReplPendingTx	none	UTILIZATION	false	5 min
Replication Transaction Rate	ReplTransRate	none	UTILIZATION	false	5 min
Log Cache Hit Ratio	LogCacheHitRatio	none	UTILIZATION	false	5 min
Log Flush Wait Time	LogFlushWaitTime	none	UTILIZATION	false	5 min
Log Truncations	LogTruncations	none	UTILIZATION	false	5 min
Log Growths	LogGrowths	none	UTILIZATION	false	5 min
Log Shrinks	LogShrinks	none	UTILIZATION	false	5 min

Configuration Help

vFabric Web Server

This section details the vCenter Hyperic plugin that manages vFabric Web server.

vFabric Web Server is an Apache HTTPD-based web server.

Supported Versions and Requirements

The vFabric Web Server plugin supports vFabric Web Server 5.1.

vFabric Web Server Resources and the vCenter Hyperic Inventory Model

The indented list below illustrates the hierarchy of vCenter Hyperic resource types that map to vFabric Web Server.

- vFabric Web Server
- vFabric Web Server Virtual Host

In terms of the vCenter Hyperic inventory model:

- The vFabric Web Server resource type is a "server".
- The vFabric Web Server Virtual Host resource type is a "service".
- [vFabric Web Server Configuration Instructions](#) on page 609
This section provides instructions for configuring vCenter Hyperic to manage vFabric Web Server.
- [vFabric Web Server Resource Types and Management Functions](#) on page 610
This section details the management functions the vFabric Web Server plugin performs.
- [vFabric Web Server Metrics](#) on page 611
This section details the vFabric Web server metrics.

vFabric Web Server Configuration Instructions

This section provides instructions for configuring vCenter Hyperic to manage vFabric Web Server.

- [Step 1: Install vCenter Hyper Agent](#) on page 610
This topic explains how to install a vCenter Hyperic agent.
- [Step 2: Import vFabric Web Server](#) on page 610
This topic explains how to import the vFabric Web Server.
- [Step 3: Configure vFabric Web Server](#) on page 610
This topic explains how to configure the vFabric Web Server.

- [Step 4: Verify Metric Collection](#) on page 610
This topic explains how to verify the metrics collection.

Step 1: Install vCenter Hyper Agent

This topic explains how to install a vCenter Hyperic agent.

Procedure

- ◆ If you have not already done so, install a vCenter Hyperic agent on the vFabric Web Server host. See the *Getting Started with vCenter Hyperic* for instructions.

Step 2: Import vFabric Web Server

This topic explains how to import the vFabric Web Server.

After you start the vCenter Hyperic agent, it should discover the vFabric Web Server. The server should appear in the Auto-Discovery portlet on the vCenter Hyperic dashboard.

Procedure

- ◆ Import the server.

Step 3: Configure vFabric Web Server

This topic explains how to configure the vFabric Web Server.

Procedure

- 1 Navigate to the Configuration Properties page for the vFabric Web Server instance.
- 2 If you do not want the agent to auto-discover vHost services, clear the **Autodiscover Virtual Hosts** checkbox.

Step 4: Verify Metric Collection

This topic explains how to verify the metrics collection.

Procedure

- ◆ Verify that the metrics appear on the Monitor tab for a vFabric Web Server resource.

vFabric Web Server Resource Types and Management Functions

This section details the management functions the vFabric Web Server plugin performs.

- [vFabric Web Server Auto-Discovery](#) on page 610
This section explains Auto-Discovery for the vFabric Web Server plugin.
- [vFabric Web Server Measurement](#) on page 611
This section explains the metric measurement for the vFabric Web Server plugin.

vFabric Web Server Auto-Discovery

This section explains Auto-Discovery for the vFabric Web Server plugin.

The plugin discovers server resources using a SIGAR query. It looks for a process executable named *httpd.prefork*.

vFabric Web Server Measurement

This section explains the metric measurement for the vFabric Web Server plugin.

vCenter Hyperic's vFabric Web Server plugin obtains runtime information, such as performance metrics, status, configuration, and current capacity using the open source `mod_bmx` module to access the Apache HTTPD BMX framework. The BMX framework exposes HTTPD server and vHost-level monitoring information through an HTTP endpoint.

`mod_bmx` uses two data providers to obtain metrics: `mod_bmx_status` and `mod_bmx_vhost`.

A server instance is considered available if it is found in the process table.

A virtual host is considered available if `mod_bmx_vhost` returns metrics for it.

vFabric Web Server Metrics

This section details the vFabric Web server metrics.

- [vFabric Web Server 5.1](#) on page 611
This topic details the vFabric Web Server 5.1 metrics.
- [vFabric Web Server 5.1 Virtual Host Service](#) on page 612
This topic details the vFabric Web Server 5.1 Virtual Host Service metrics.
- [vFabric Web Server 5.2](#) on page 613
This topic details the vFabric Web Server 5.2 metrics.
- [vFabric Web Server 5.2 Virtual Host Service](#) on page 614
This topic details the vFabric Web Server 5.2 Virtual Host Service metrics.

vFabric Web Server 5.1

This topic details the vFabric Web Server 5.1 metrics.

Log Track Supported: No

Config Track Supported: No

Table 26-1. Custom Properties Supported

Name	Description
version	version
ServerVersion	ServerVersion

Supported Control Actions: None

Table 26-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Server Uptime	ServerUptimeSeconds	none	AVAILABILITY	false	5 min
Busy Workers	BusyWorkers	none	UTILIZATION	true	5 min
Idle Workers	IdleWorkers	none	UTILIZATION	true	5 min
Bytes Served per Second	KilobytesPerSec	KB	THROUGHPUT	false	5 min

Table 26-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Served per Request	KilobytesPerReq	KB	THROUGHPUT	false	5 min
Requests Served per Second	ReqPerSec	none	THROUGHPUT	true	5 min
Requests Served	TotalAccesses	none	THROUGHPUT	false	10 min
Requests Served per Minute	TotalAccesses1m	none	THROUGHPUT	true	10 min
Bytes Served	TotalTrafficKilobytes	KB	THROUGHPUT	false	10 min
Bytes Served per Minute	TotalTrafficKilobytes1m	KB	THROUGHPUT	true	10 min
Parent Server Generation	ParentServerGeneration	none	THROUGHPUT	false	5 min

Configuration Help

vFabric Web Server 5.1 Virtual Host Service

This topic details the vFabric Web Server 5.1 Virtual Host Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 26-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Start Elapsed	StartElapsed	mu	AVAILABILITY	true	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	true	10 min
In Bytes GET	InBytesGET	none	THROUGHPUT	true	5 min
In Bytes HEAD	InBytesHEAD	none	THROUGHPUT	true	5 min
In Bytes POST	InBytesPOST	none	THROUGHPUT	true	5 min
In Bytes PUT	InBytesPUT	none	THROUGHPUT	true	5 min
In Requests GET	InRequestsGET	none	THROUGHPUT	true	5 min
In Requests HEAD	InRequestsHEAD	none	THROUGHPUT	true	5 min
In Requests POST	InRequestsPOST	none	THROUGHPUT	true	5 min
In Requests PUT	InRequestsPUT	none	THROUGHPUT	true	5 min
Out Bytes 200	OutBytes200	none	THROUGHPUT	true	5 min
Out Bytes 301	OutBytes301	none	THROUGHPUT	true	5 min
Out Bytes 302	OutBytes302	none	THROUGHPUT	true	5 min
Out Bytes 403	OutBytes403	none	THROUGHPUT	true	5 min
Out Bytes 404	OutBytes404	none	THROUGHPUT	true	5 min

Table 26-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Out Bytes 500	OutBytes500	none	THROUGHPUT	true	5 min
Out Responses 200	OutResponses200	none	THROUGHPUT	true	5 min
Out Responses 301	OutResponses301	none	THROUGHPUT	true	5 min
Out Responses 302	OutResponses302	none	THROUGHPUT	true	5 min
Out Responses 401	OutResponses401	none	THROUGHPUT	true	5 min
Out Responses 403	OutResponses403	none	THROUGHPUT	true	5 min
Out Responses 404	OutResponses404	none	THROUGHPUT	true	5 min
Out Responses 500	OutResponses500	none	THROUGHPUT	true	5 min
In Low Bytes	InLowBytes	none	THROUGHPUT	true	5 min
In Requests	InRequests	none	THROUGHPUT	true	5 min
Out Responses	OutResponses	none	THROUGHPUT	true	5 min

Configuration Help

vFabric Web Server 5.2

This topic details the vFabric Web Server 5.2 metrics.

Log Track Supported: No

Config Track Supported: Yes

Table 26-4. Custom Properties Supported

Name	Description
version	version
ServerVersion	ServerVersion

Supported Control Actions: None

Table 26-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Server Uptime	ServerUptimeSeconds	none	AVAILABILITY	false	5 min
Busy Workers	BusyWorkers	none	UTILIZATION	true	5 min
Idle Workers	IdleWorkers	none	UTILIZATION	true	5 min
Bytes Served per Second	KilobytesPerSec	KB	THROUGHPUT	false	5 min
Bytes Served per Request	KilobytesPerReq	KB	THROUGHPUT	false	5 min

Table 26-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests Served per Second	ReqPerSec	none	THROUGHPUT	true	5 min
Requests Served	TotalAccesses	none	THROUGHPUT	false	10 min
Requests Served per Minute	TotalAccesses1m	none	THROUGHPUT	true	10 min
Bytes Served	TotalTrafficKilobytes	KB	THROUGHPUT	false	10 min
Bytes Served per Minute	TotalTrafficKilobytes1m	KB	THROUGHPUT	true	10 min
Parent Server Generation	ParentServerGeneration	none	THROUGHPUT	false	5 min

Configuration Help

vFabric Web Server 5.2 Virtual Host Service

This topic details the vFabric Web Server 5.2 Virtual Host Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 26-6. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Start Elapsed	StartElapsed	mu	AVAILABILITY	true	10 min
Start Time	StartTime	epoch-millis	AVAILABILITY	true	10 min
In Bytes GET	InBytesGET	none	THROUGHPUT	true	5 min
In Bytes HEAD	InBytesHEAD	none	THROUGHPUT	true	5 min
In Bytes POST	InBytesPOST	none	THROUGHPUT	true	5 min
In Bytes PUT	InBytesPUT	none	THROUGHPUT	true	5 min
In Requests GET	InRequestsGET	none	THROUGHPUT	true	5 min
In Requests HEAD	InRequestsHEAD	none	THROUGHPUT	true	5 min
In Requests POST	InRequestsPOST	none	THROUGHPUT	true	5 min
In Requests PUT	InRequestsPUT	none	THROUGHPUT	true	5 min
Out Bytes 200	OutBytes200	none	THROUGHPUT	true	5 min
Out Bytes 301	OutBytes301	none	THROUGHPUT	true	5 min
Out Bytes 302	OutBytes302	none	THROUGHPUT	true	5 min
Out Bytes 403	OutBytes403	none	THROUGHPUT	true	5 min
Out Bytes 404	OutBytes404	none	THROUGHPUT	true	5 min
Out Bytes 500	OutBytes500	none	THROUGHPUT	true	5 min

Table 26-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Out Responses 200	OutResponses200	none	THROUGHPUT	true	5 min
Out Responses 301	OutResponses301	none	THROUGHPUT	true	5 min
Out Responses 302	OutResponses302	none	THROUGHPUT	true	5 min
Out Responses 401	OutResponses401	none	THROUGHPUT	true	5 min
Out Responses 403	OutResponses403	none	THROUGHPUT	true	5 min
Out Responses 404	OutResponses404	none	THROUGHPUT	true	5 min
Out Responses 500	OutResponses500	none	THROUGHPUT	true	5 min
In Low Bytes	InLowBytes	none	THROUGHPUT	true	5 min
In Requests	InRequests	none	THROUGHPUT	true	5 min
Out Responses	OutResponses	none	THROUGHPUT	true	5 min

Configuration Help

Hyper-V Plug-in

The Hyper-V plug-in is used for monitoring hierarchy and metrics. vCenter Hyperic supports both Windows operating systems with a Hyper-V role and standalone Hyper-V.

Supported Versions

Windows 2008 SP2, 2012 with a Hyper-V role
Hyper-V standalone 2008, 2012

Configuration

No special configuration is required to use this plug-in.

Modeling

Model Hyper-V as a platform with the following metrics. Hyper-V includes its own metrics, in addition to regular Windows metrics. The Hyper-V host runs virtual machines, which are modeled as servers. Each virtual machine has its own services.

To monitor what is running on a specific virtual machine, you must install a separate agent on that machine.

Platform Metrics

In addition to the standard Windows metrics, Hyper-V platform metrics include the following.

Metric	Description
Hyper-V Hypervisor:Logical Processors	Number of processor cores, or its equivalent
Hyper-V Hypervisor:Virtual Processors	
Hyper-V Hypervisor:Partitions	Number of virtual machines+1
Hyper-V Hypervisor:Total Pages	
Virtual Machines Health Summary:Health Critical	
Virtual Machines Health Summary:Health Ok	Includes indicator of overall Hyper-V health

Platform Service Metrics

In addition to the standard Windows metrics, Hyper-V platform service metrics include the following.

Service	Metric	Additional Information
Hyper-V Logical Processor		A single logical processor
	%Guest Run Time	
	%Hypervisor Run Time	
	%Idle Time	
	%Total Run Time	
Memory		
	Available Bytes	
	Pages per Minute	
HyperV Network Interface		One per physical NIC
	Bytes Total per Minute	
	Offloaded Connections	
	Packet Outbound Errors	
	Packet Receive Errors	
	Packets per Minute	
HyperV Physical Disk		One per drive
	Current Disk Queue Length	
	Disk Bytes per Minute	
	Disk Transfers per Minute	

Guest Virtual Machines

Each guest virtual machine is modeled as a server, with the following services and metrics.

Metric	Description
Memory - Physical Pages Allocated	
Memory - Remote Physical Pages	

Service	Metric	Additional Information
Hyper-V VM Hyper-V Hypervisor Virtual Processor		One service per virtual processor
	%Guest Run Time	
	%Hypervisor Run Time	
	%Total Run Time	
Hyper-V VM Hyper-V Legacy Network Adapter		One service per virtual network adapter or legacy network adapter
	Bytes Received per Minute	
	Bytes Sent per Minute	
	Bytes Dropped	
Hyper-V VM Hyper-V Virtual Network Adapter		
	Bytes Received per Minute	
	Bytes Sent per Minute	
	Bytes per Minute	

Service	Metric	Additional Information
Hyper-V VM Hyper-V Virtual Storage Device		One service per IDE controller or virtual storage device
	Error Count	
	Flush Count	
Hyper-V VM Hyper-V Virtual IDE Controller		
	Read Bytes per Minute	
	Write Bytes per Minute	

Microsoft Exchange

Microsoft Exchange is a Simple Mail Transport Protocol (SMTP) server. This section details the plugin that manages the Exchange.

Supported Versions and Requirements

The Exchange plugin supports Exchange 2010, Exchange 2007, and Exchange 2003.

Exchange Resources and the vCenter Hyperic Inventory Model

The indented list below illustrates the hierarchy of vCenter Hyperic resource types that map to vFabric Web Server.

- Exchange
 - Exchange IMAP4
 - Exchange POP3
 - Exchange Web
- Exchange Transport
 - Exchange TransportSmtpReceive
 - Exchange TransportSmtpSend

Exchange resource type is a "server" in terms of the Hyperic inventory model; it represents the Exchange server.

IMAP4, IPOP3, and Web resource types are a "services" in terms of the Hyperic inventory model; they represent the Exchange IMAP4, POP3, and WebMail services.

Exchange Transport resource type is a "server" in terms of the Hyperic inventory model; it represents Hub Transport Server, through which SMTP traffic in Exchange Server is routed.

Exchange TransportSmtpReceive and Exchange TransportSmtpSend resource types are "services" in terms of the Hyperic inventory model; they represent the receive and send services for SMTP traffic.

- [Microsoft Exchange Configuration Instructions](#) on page 622
This section provides instructions for configuring vCenter Hyperic to manage Exchange.
- [Microsoft Exchange Resource Types and Management Functions](#) on page 623
This topic details the management functions the Microsoft Exchange plugin performs.
- [Microsoft Exchange Metrics](#) on page 623
This section lists the metrics for Microsoft Exchange.

Microsoft Exchange Configuration Instructions

This section provides instructions for configuring vCenter Hyperic to manage Exchange.

- [Step 1: Install vCenter Hyperic Agent](#) on page 622
This topic explains how to install a vCenter Hyperic agent.
- [Step 2: Import Exchange](#) on page 622
This topic explains how to import Microsoft Exchange.
- [Step 3: Configure Exchange](#) on page 622
This topic explains how to configure Microsoft Exchange.
- [Step 4: Verify Metric Collection](#) on page 623
This topic explains how to verify metric collection.

Step 1: Install vCenter Hyperic Agent

This topic explains how to install a vCenter Hyperic agent.

Procedure

- ◆ If you have not already done so, install a vCenter Hyperic agent on the Microsoft Exchange host. See *Getting Started with vCenter Hyperic* for instructions.

Step 2: Import Exchange

This topic explains how to import Microsoft Exchange.

After you start the vCenter Hyperic agent, it should discover the Exchange. The server should appear in the Auto-Discovery portlet on the vCenter Hyperic dashboard.

Procedure

- ◆ Import the server.

Step 3: Configure Exchange

This topic explains how to configure Microsoft Exchange.

No configuration is required to enable vCenter Hyperic to collect Exchange metrics. As desired, you can disable discovery of services, and enable log tracking.

Procedure

- 1 To configure monitoring options for servers of type Exchange, navigate to the Configuration Properties page for the Exchange server instance.
 - a To disable service discovery uncheck the **Auto-Discover**, **IMAP4s**, **POP3s**, and **Other Services** box and click **OK**.
 - By default the Exchange plugin discovers the IMAP4, POP3, and Web services running in Exchange.
 - By default, the Exchange plugin does not perform log tracking for servers of type Exchange.

- 2 To configure monitoring options for servers of type Exchange Transport, navigate to the Configuration Properties page for the Exchange Transport server instance.
 - a To disable service discovery uncheck the **Auto-Discover SmtptReceives and SmtptSend** boxes and click **OK**.
 - By default the Exchange plugin discovers the SmtptReceive and SmtptSend services running in Exchange Transport.

Step 4: Verify Metric Collection

This topic explains how to verify metric collection.

Procedure

- ◆ Verify that the metrics appear on the Monitor tab for a Microsoft Exchange resource.

Microsoft Exchange Resource Types and Management Functions

This topic details the management functions the Microsoft Exchange plugin performs.

Microsoft Exchange Auto-Discovery

This section explains Auto-Discovery for the Microsoft Exchange.

The plugin discovers exchange resources from the Windows registry. For servers, it looks for the key `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Exchange\Setup`.

Microsoft Exchange Metrics

This section lists the metrics for Microsoft Exchange.

- [Exchange 2010 Server](#) on page 624
This topic details the Exchange 2010 Server metrics.
- [Exchange 2010 IMAP4 Service](#) on page 629
This topic details the Exchange 2010 IMAP4 Service metrics.
- [Exchange 2010 POP3 Service](#) on page 634
This topic details the Exchange 2010 POP3 Service metrics.
- [Exchange 2010 Web Service](#) on page 636
This topic details the Exchange 2010 Web Service metrics.
- [Exchange Transport 2010 Server](#) on page 640
This topic details the Exchange Transport 2010 Server metrics.
- [Exchange Transport 2010 SmtptReceive Service](#) on page 642
This topic details the Exchange Transport 2010 SmtptReceive Service metrics.
- [Exchange Transport 2010 SmtptSend Service](#) on page 643
This topic details the Exchange Transport 2010 SmtptSend Service metrics.
- [Exchange 2007 Server](#) on page 644
This topic details the Exchange 2007 Server metrics.
- [Exchange 2007 IMAP4 Service](#) on page 650
This topic details the Exchange 2007 IMAP4 Service metrics.

- [Exchange 2007 POP3 Service](#) on page 654
This topic details the Exchange 2007 POP3 Service metrics.
- [Exchange 2007 Web Service](#) on page 657
This topic details the Exchange 2007 Web Service metrics.
- [Exchange Transport 2007 Server](#) on page 660
This topic details the Exchange Transport 2007 Server metrics.
- [Exchange Transport 2007 Smtplib Service](#) on page 662
This topic details the Exchange Transport 2007 Smtplib Service metrics.

Exchange 2010 Server

This topic details the Exchange 2010 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 28-1. Custom Properties Supported

Name	Description
version	Exchange Version
build	Build Number

Supported Control Actions: None

Table 28-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
RPC Packets	RPCPackets	none	THROUGHPUT	false	10 min
RPC Packets per Minute	RPCPackets1m	none	THROUGHPUT	false	10 min
RPC Operations	RPCOperations	none	THROUGHPUT	false	10 min
RPC Operations per Minute	RPCOperations1m	none	THROUGHPUT	false	10 min
Read Bytes RPC Clients	ReadBytesRPCClients	B	THROUGHPUT	false	10 min
Read Bytes RPC Clients per Minute	ReadBytesRPCClients1m	B	THROUGHPUT	false	10 min
Write Bytes RPC Clients	WriteBytesRPCClients	B	THROUGHPUT	false	10 min
Write Bytes RPC Clients per Minute	WriteBytesRPCClients1m	B	THROUGHPUT	false	10 min
RPC Averaged Latency	RPCAveragedLatency	ms	THROUGHPUT	false	5 min
RPC Num. Of Slow Packets	RPCNum.OfSlowPackets	none	THROUGHPUT	false	10 min
RPC Num. Of Slow Packets per Minute	RPCNum.OfSlowPackets1m	none	THROUGHPUT	false	10 min
Push Notifications Generated	PushNotificationsGenerated	none	THROUGHPUT	false	10 min

Table 28-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Push Notifications Generated per Minute	PushNotification sGenerated1m	none	THROUGHPUT	false	10 min
Push Notifications Skipped	PushNotification sSkipped	none	THROUGHPUT	false	10 min
Push Notifications Skipped per Minute	PushNotification sSkipped1m	none	THROUGHPUT	false	10 min
RPC Requests	RPCRequests	none	THROUGHPUT	true	5 min
User Count	UserCount	none	UTILIZATION	false	5 min
Active User Count	ActiveUserCount	none	UTILIZATION	false	5 min
Maximum Users	MaximumUsers	none	UTILIZATION	false	30 min
Anonymous User Count	AnonymousUser Count	none	UTILIZATION	false	5 min
Active Anonymous User Count	ActiveAnonymo usUserCount	none	UTILIZATION	false	5 min
Maximum Anonymous Users	MaximumAnony mousUsers	none	UTILIZATION	false	30 min
Connection Count	ConnectionCoun t	none	UTILIZATION	true	5 min
Active Connection Count	ActiveConnectio nCount	none	UTILIZATION	false	5 min
Maximum Connections	MaximumConne ctions	none	UTILIZATION	false	30 min
Push Notifications Cache Size	PushNotification sCacheSize	none	UTILIZATION	false	5 min
Single Appointments Created	SingleAppointm entsCreated	none	UTILIZATION	false	10 min
Single Appointments Created per Minute	SingleAppointm entsCreated1m	none	UTILIZATION	false	10 min
Recurring Appointments Created	RecurringAppoi ntmentsCreated	none	UTILIZATION	false	10 min
Recurring Appointments Created per Minute	RecurringAppoi ntmentsCreated1 m	none	UTILIZATION	false	10 min
Single Appointments Modified	SingleAppointm entsModified	none	UTILIZATION	false	10 min
Single Appointments Modified per Minute	SingleAppointm entsModified1m	none	UTILIZATION	false	10 min

Table 28-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Recurring Appointments Modified	RecurringAppointmentsModified	none	UTILIZATION	false	10 min
Recurring Appointments Modified per Minute	RecurringAppointmentsModified1m	none	UTILIZATION	false	10 min
Single Appointments Deleted	SingleAppointmentsDeleted	none	UTILIZATION	false	10 min
Single Appointments Deleted per Minute	SingleAppointmentsDeleted1m	none	UTILIZATION	false	10 min
Recurring Appointments Deleted	RecurringAppointmentsDeleted	none	UTILIZATION	false	10 min
Recurring Appointments Deleted per Minute	RecurringAppointmentsDeleted1m	none	UTILIZATION	false	10 min
Recurring Master Appointments Expanded	RecurringMasterAppointmentsExpanded	none	UTILIZATION	false	10 min
Recurring Master Appointments Expanded per Minute	RecurringMasterAppointmentsExpanded1m	none	UTILIZATION	false	10 min
Appointment Instances Created	AppointmentInstancesCreated	none	UTILIZATION	false	10 min
Appointment Instances Created per Minute	AppointmentInstancesCreated1m	none	UTILIZATION	false	10 min
Appointment Instances Deleted	AppointmentInstancesDeleted	none	UTILIZATION	false	10 min
Appointment Instances Deleted per Minute	AppointmentInstancesDeleted1m	none	UTILIZATION	false	10 min
FB Publish Count	FBPublishCount	none	UTILIZATION	false	10 min
FB Publish Count per Minute	FBPublishCount1m	none	UTILIZATION	false	10 min
Background Expansion Queue Length	BackgroundExpansionQueueLength	none	THROUGHPUT	false	5 min
Virus Scan Messages Processed	VirusScanMessagesProcessed	none	THROUGHPUT	false	10 min
Virus Scan Messages Processed per Minute	VirusScanMessagesProcessed1m	none	THROUGHPUT	false	10 min

Table 28-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Virus Scan Messages Cleaned	VirusScanMessagesCleaned	none	THROUGHPUT	false	10 min
Virus Scan Messages Cleaned per Minute	VirusScanMessagesCleaned1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Quarantined	VirusScanMessagesQuarantined	none	THROUGHPUT	false	10 min
Virus Scan Messages Quarantined per Minute	VirusScanMessagesQuarantined1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Deleted	VirusScanMessagesDeleted	none	THROUGHPUT	false	10 min
Virus Scan Messages Deleted per Minute	VirusScanMessagesDeleted1m	none	THROUGHPUT	false	10 min
Virus Scan Files Scanned	VirusScanFilesScanned	none	THROUGHPUT	false	10 min
Virus Scan Files Scanned per Minute	VirusScanFilesScanned1m	none	THROUGHPUT	false	10 min
Virus Scan Files Cleaned	VirusScanFilesCleaned	none	THROUGHPUT	false	10 min
Virus Scan Files Cleaned per Minute	VirusScanFilesCleaned1m	none	THROUGHPUT	false	10 min
Virus Scan Files Quarantined	VirusScanFilesQuarantined	none	THROUGHPUT	false	10 min
Virus Scan Files Quarantined per Minute	VirusScanFilesQuarantined1m	none	THROUGHPUT	false	10 min
Virus Scan Bytes Scanned	VirusScanBytesScanned	B	THROUGHPUT	false	10 min
Virus Scan Bytes Scanned per Minute	VirusScanBytesScanned1m	B	THROUGHPUT	false	10 min
Virus Scan Queue Length	VirusScanQueueLength	none	THROUGHPUT	false	10 min
Virus Scan Queue Length per Minute	VirusScanQueueLength1m	none	THROUGHPUT	false	10 min
Virus Scan Folders Scanned In Background	VirusScanFoldersScannedInBackground	none	THROUGHPUT	false	10 min
Virus Scan Folders Scanned In Background per Minute	VirusScanFoldersScannedInBackground1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Scanned In Background	VirusScanMessagesScannedInBackground	none	THROUGHPUT	false	10 min

Table 28-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Virus Scan Messages Scanned In Background per Minute	VirusScanMessagesScannedInBackground1m	none	THROUGHPUT	false	10 min
VM Largest Block Size	VMLargestBlockSize	none	UTILIZATION	false	5 min
VM Total Free Blocks	VMTotalFreeBlocks	none	UTILIZATION	false	5 min
VM Total 16MB Free Blocks	VMTotal16MBFreeBlocks	none	UTILIZATION	false	5 min
VM Total Large Free Block Bytes	VMTotalLargeFreeBlockBytes	none	UTILIZATION	false	5 min
DL Membership Cache Entries Count	DLMembershipCacheEntriesCount	none	UTILIZATION	false	5 min
DL Membership Cache Size	DLMembershipCacheSize	none	UTILIZATION	false	5 min
DL Membership Cache Hits	DLMembershipCacheHits	none	UTILIZATION	false	10 min
DL Membership Cache Hits per Minute	DLMembershipCacheHits1m	none	UTILIZATION	false	10 min
DL Membership Cache Misses	DLMembershipCacheMisses	none	UTILIZATION	false	10 min
DL Membership Cache Misses per Minute	DLMembershipCacheMisses1m	none	UTILIZATION	false	10 min
RPC Clients Bytes Read	RPCClientsBytesRead	B	THROUGHPUT	false	10 min
RPC Clients Bytes Read per Minute	RPCClientsBytesRead1m	B	THROUGHPUT	false	10 min
RPC Clients Bytes Written	RPCClientsBytesWritten	B	THROUGHPUT	false	10 min
RPC Clients Bytes Written per Minute	RPCClientsBytesWritten1m	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Read	RPCClientsUncompressedBytesRead	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Read per Minute	RPCClientsUncompressedBytesRead1m	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Written	RPCClientsUncompressedBytesWritten	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Written per Minute	RPCClientsUncompressedBytesWritten1m	B	THROUGHPUT	false	10 min

Table 28-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Slow QP Threads	SlowQPThreads	none	UTILIZATION	false	5 min
Slow Search Threads	SlowSearchThreads	none	UTILIZATION	false	5 min
Messages Delivered	MessagesDelivered	none	THROUGHPUT	false	10 min
Messages Delivered per Minute	MessagesDelivered1m	none	THROUGHPUT	false	10 min
Message Recipients Delivered	MessageRecipientsDelivered	none	UTILIZATION	false	10 min
Message Recipients Delivered per Minute	MessageRecipientsDelivered1m	none	UTILIZATION	false	10 min
Messages Sent	MessagesSent	none	UTILIZATION	false	10 min
Messages Sent per Minute	MessagesSent1m	none	UTILIZATION	false	10 min
Messages Submitted	MessagesSubmitted	none	UTILIZATION	false	10 min
Messages Submitted per Minute	MessagesSubmitted1m	none	UTILIZATION	false	10 min
Average Delivery Time	AverageDeliveryTime	none	UTILIZATION	false	5 min
Total Size of Recoverable Items	TotalSizeofRecoverableItems	none	UTILIZATION	false	5 min
Total Count of Recoverable Items	TotalCountofRecoverableItems	none	UTILIZATION	false	5 min
Client Logons	ClientLogons	none	UTILIZATION	false	10 min
Client Logons per Minute	ClientLogons1m	none	UTILIZATION	false	10 min
Active Client Logons	ActiveClientLogons	none	UTILIZATION	false	5 min
Local deliveries	Localdeliveries	none	UTILIZATION	false	5 min

Configuration Help

Exchange 2010 IMAP4 Service

This topic details the Exchange 2010 IMAP4 Service metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
APPEND Total	APPENDTotal	none	UTILIZATION	false	10 min
APPEND Total per Minute	APPENDTotal1m	none	UTILIZATION	false	10 min
APPEND Failures	APPENDFailures	none	UTILIZATION	false	10 min
APPEND Failures per Minute	APPENDFailures1m	none	UTILIZATION	false	10 min
AUTHENTICATE Total	AUTHENTICATETotal	none	UTILIZATION	false	10 min
AUTHENTICATE Total per Minute	AUTHENTICATETotal1m	none	UTILIZATION	false	10 min
AUTHENTICATE Failures	AUTHENTICATEFailures	none	UTILIZATION	false	10 min
AUTHENTICATE Failures per Minute	AUTHENTICATEFailures1m	none	UTILIZATION	false	10 min
CAPABILITY Total	CAPABILITYTotal	none	UTILIZATION	false	10 min
CAPABILITY Total per Minute	CAPABILITYTotal1m	none	UTILIZATION	false	10 min
CAPABILITY Failures	CAPABILITYFailures	none	UTILIZATION	false	10 min
CAPABILITY Failures per Minute	CAPABILITYFailures1m	none	UTILIZATION	false	10 min
CHECK Total	CHECKTotal	none	UTILIZATION	false	10 min
CHECK Total per Minute	CHECKTotal1m	none	UTILIZATION	false	10 min
CHECK Failures	CHECKFailures	none	UTILIZATION	false	10 min
CHECK Failures per Minute	CHECKFailures1m	none	UTILIZATION	false	10 min
CLOSE Total	CLOSETotal	none	UTILIZATION	false	10 min
CLOSE Total per Minute	CLOSETotal1m	none	UTILIZATION	false	10 min
CLOSE Failures	CLOSEFailures	none	UTILIZATION	false	10 min
CLOSE Failures per Minute	CLOSEFailures1m	none	UTILIZATION	false	10 min
COPY Total	COPYTotal	none	UTILIZATION	false	10 min
COPY Total per Minute	COPYTotal1m	none	UTILIZATION	false	10 min
COPY Failures	COPYFailures	none	UTILIZATION	false	10 min
COPY Failures per Minute	COPYFailures1m	none	UTILIZATION	false	10 min
CREATE Total	CREATETotal	none	UTILIZATION	false	10 min
CREATE Total per Minute	CREATETotal1m	none	UTILIZATION	false	10 min
CREATE Failures	CREATEFailures	none	UTILIZATION	false	10 min

Table 28-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
CREATE Failures per Minute	CREATEFailures1m	none	UTILIZATION	false	10 min
DELETE Total	DELETETotal	none	UTILIZATION	false	10 min
DELETE Total per Minute	DELETETotal1m	none	UTILIZATION	false	10 min
DELETE Failures	DELETEDFailures	none	UTILIZATION	false	10 min
DELETE Failures per Minute	DELETEDFailures1m	none	UTILIZATION	false	10 min
EXAMINE Total	EXAMINETotal	none	UTILIZATION	false	10 min
EXAMINE Total per Minute	EXAMINETotal1m	none	UTILIZATION	false	10 min
EXAMINE Failures	EXAMINEFailures	none	UTILIZATION	false	10 min
EXAMINE Failures per Minute	EXAMINEFailures1m	none	UTILIZATION	false	10 min
EXPUNGE Total	EXPUNGETotal	none	UTILIZATION	false	10 min
EXPUNGE Total per Minute	EXPUNGETotal1m	none	UTILIZATION	false	10 min
EXPUNGE Failures	EXPUNGEFailures	none	UTILIZATION	false	10 min
EXPUNGE Failures per Minute	EXPUNGEFailures1m	none	UTILIZATION	false	10 min
FETCH Total	FETCHTotal	none	UTILIZATION	false	10 min
FETCH Total per Minute	FETCHTotal1m	none	UTILIZATION	false	10 min
FETCH Failures	FETCHFailures	none	UTILIZATION	false	10 min
FETCH Failures per Minute	FETCHFailures1m	none	UTILIZATION	false	10 min
LIST Total	LISTTotal	none	UTILIZATION	false	10 min
LIST Total per Minute	LISTTotal1m	none	UTILIZATION	false	10 min
LIST Failures	LISTFailures	none	UTILIZATION	false	10 min
LIST Failures per Minute	LISTFailures1m	none	UTILIZATION	false	10 min
LOGIN Total	LOGINTotal	none	UTILIZATION	false	10 min
LOGIN Total per Minute	LOGINTotal1m	none	UTILIZATION	true	10 min
LOGIN Failures	LOGINFailures	none	UTILIZATION	false	10 min
LOGIN Failures per Minute	LOGINFailures1m	none	UTILIZATION	false	10 min
LOGOUT Total	LOGOUTTotal	none	UTILIZATION	false	10 min
LOGOUT Total per Minute	LOGOUTTotal1m	none	UTILIZATION	false	10 min

Table 28-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
LOGOUT Failures	LOGOUTFailures	none	UTILIZATION	false	10 min
LOGOUT Failures per Minute	LOGOUTFailures1m	none	UTILIZATION	false	10 min
LSUB Total	LSUBTotal	none	UTILIZATION	false	10 min
LSUB Total per Minute	LSUBTotal1m	none	UTILIZATION	false	10 min
LSUB Failures	LSUBFailures	none	UTILIZATION	false	10 min
LSUB Failures per Minute	LSUBFailures1m	none	UTILIZATION	false	10 min
NOOP Total	NOOPTotal	none	UTILIZATION	false	10 min
NOOP Total per Minute	NOOPTotal1m	none	UTILIZATION	false	10 min
NOOP Failures	NOOPFailures	none	UTILIZATION	false	10 min
NOOP Failures per Minute	NOOPFailures1m	none	UTILIZATION	false	10 min
RENAME Total	RENAMETotal	none	UTILIZATION	false	10 min
RENAME Total per Minute	RENAMETotal1m	none	UTILIZATION	false	10 min
RENAME Failures	RENAMEFailures	none	UTILIZATION	false	10 min
RENAME Failures per Minute	RENAMEFailures1m	none	UTILIZATION	false	10 min
SEARCH Total	SEARCHTotal	none	UTILIZATION	false	10 min
SEARCH Total per Minute	SEARCHTotal1m	none	UTILIZATION	false	10 min
SEARCH Failures	SEARCHFailures	none	UTILIZATION	false	10 min
SEARCH Failures per Minute	SEARCHFailures1m	none	UTILIZATION	false	10 min
SELECT Total	SELECTTotal	none	UTILIZATION	false	10 min
SELECT Total per Minute	SELECTTotal1m	none	UTILIZATION	false	10 min
SELECT Failures	SELECTFailures	none	UTILIZATION	false	10 min
SELECT Failures per Minute	SELECTFailures1m	none	UTILIZATION	false	10 min
STATUS Total	STATUSTotal	none	UTILIZATION	false	10 min
STATUS Total per Minute	STATUSTotal1m	none	UTILIZATION	true	10 min
STATUS Failures	STATUSFailures	none	UTILIZATION	false	10 min
STATUS Failures per Minute	STATUSFailures1m	none	UTILIZATION	false	10 min
STORE Total	STORETotal	none	UTILIZATION	false	10 min
STORE Total per Minute	STORETotal1m	none	UTILIZATION	false	10 min
STORE Failures	STOREFailures	none	UTILIZATION	false	10 min

Table 28-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
STORE Failures per Minute	STOREFailures1m	none	UTILIZATION	false	10 min
SUBSCRIBE Total	SUBSCRIBETotal	none	UTILIZATION	false	10 min
SUBSCRIBE Total per Minute	SUBSCRIBETotal1m	none	UTILIZATION	false	10 min
SUBSCRIBE Failures	SUBSCRIBEFailures	none	UTILIZATION	false	10 min
SUBSCRIBE Failures per Minute	SUBSCRIBEFailures1m	none	UTILIZATION	false	10 min
UNSUBSCRIBE Total	UNSUBSCRIBETotal	none	UTILIZATION	false	10 min
UNSUBSCRIBE Total per Minute	UNSUBSCRIBETotal1m	none	UTILIZATION	false	10 min
UNSUBSCRIBE Failures	UNSUBSCRIBEFailures	none	UTILIZATION	false	10 min
UNSUBSCRIBE Failures per Minute	UNSUBSCRIBEFailures1m	none	UTILIZATION	false	10 min
IDLE Total	IDLETotal	none	UTILIZATION	false	10 min
IDLE Total per Minute	IDLETotal1m	none	UTILIZATION	false	10 min
IDLE Failures	IDLEFailures	none	UTILIZATION	false	10 min
IDLE Failures per Minute	IDLEFailures1m	none	UTILIZATION	false	10 min
NAMESPACE Total	NAMESPACETotal	none	UTILIZATION	false	10 min
NAMESPACE Total per Minute	NAMESPACETotal1m	none	UTILIZATION	false	10 min
NAMESPACE Failures	NAMESPACEFailures	none	UTILIZATION	false	10 min
NAMESPACE Failures per Minute	NAMESPACEFailures1m	none	UTILIZATION	false	10 min
Invalid Commands	InvalidCommands	none	UTILIZATION	false	10 min
Invalid Commands per Minute	InvalidCommands1m	none	UTILIZATION	true	10 min
Connections Failed	ConnectionsFailed	none	UTILIZATION	false	10 min
Connections Failed per Minute	ConnectionsFailed1m	none	UTILIZATION	false	10 min
Connections Rejected	ConnectionsRejected	none	UTILIZATION	false	10 min
Connections Rejected per Minute	ConnectionsRejected1m	none	UTILIZATION	false	10 min

Table 28-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Connections Total	ConnectionsTotal	none	UTILIZATION	false	10 min
Connections Total per Minute	ConnectionsTotal1m	none	UTILIZATION	false	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	true	5 min

Configuration Help

Exchange 2010 POP3 Service

This topic details the Exchange 2010 POP3 Service metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-4. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
AUTH Total	AUTHTotal	none	UTILIZATION	false	10 min
AUTH Total per Minute	AUTHTotal1m	none	UTILIZATION	false	10 min
AUTH Failures	AUTHFailures	none	UTILIZATION	false	10 min
AUTH Failures per Minute	AUTHFailures1m	none	UTILIZATION	false	10 min
PASS Total	PASSTotal	none	UTILIZATION	false	10 min
PASS Total per Minute	PASSTotal1m	none	UTILIZATION	false	10 min
PASS Failures	PASSFailures	none	UTILIZATION	false	10 min
PASS Failures per Minute	PASSFailures1m	none	UTILIZATION	false	10 min
QUIT Total	QUITTotal	none	UTILIZATION	false	10 min
QUIT Total per Minute	QUITTotal1m	none	UTILIZATION	false	10 min
QUIT Failures	QUITFailures	none	UTILIZATION	false	10 min
QUIT Failures per Minute	QUITFailures1m	none	UTILIZATION	false	10 min
STAT Total	STATTotal	none	UTILIZATION	false	10 min
STAT Total per Minute	STATTotal1m	none	UTILIZATION	true	10 min
STAT Failures	STATFailures	none	UTILIZATION	false	10 min
STAT Failures per Minute	STATFailures1m	none	UTILIZATION	false	10 min

Table 28-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
LIST Total	LISTTotal	none	UTILIZATION	false	10 min
LIST Total per Minute	LISTTotal1m	none	UTILIZATION	false	10 min
LIST Failures	LISTFailures	none	UTILIZATION	false	10 min
LIST Failures per Minute	LISTFailures1m	none	UTILIZATION	false	10 min
RETR Total	RETRTotal	none	UTILIZATION	false	10 min
RETR Total per Minute	RETRTotal1m	none	UTILIZATION	true	10 min
RETR Failures	RETRFailures	none	UTILIZATION	false	10 min
RETR Failures per Minute	RETRFailures1m	none	UTILIZATION	false	10 min
DELE Total	DELETotat	none	UTILIZATION	false	10 min
DELE Total per Minute	DELETotat1m	none	UTILIZATION	false	10 min
DELE Failures	DELEFailures	none	UTILIZATION	false	10 min
DELE Failures per Minute	DELEFailures1m	none	UTILIZATION	false	10 min
NOOP Total	NOOPTotat	none	UTILIZATION	false	10 min
NOOP Total per Minute	NOOPTotat1m	none	UTILIZATION	false	10 min
NOOP Failures	NOOPFailures	none	UTILIZATION	false	10 min
NOOP Failures per Minute	NOOPFailures1m	none	UTILIZATION	false	10 min
RSET Total	RSETTotal	none	UTILIZATION	false	10 min
RSET Total per Minute	RSETTotal1m	none	UTILIZATION	false	10 min
RSET Failures	RSETFailures	none	UTILIZATION	false	10 min
RSET Failures per Minute	RSETFailures1m	none	UTILIZATION	false	10 min
TOP Total	TOPTotat	none	UTILIZATION	false	10 min
TOP Total per Minute	TOPTotat1m	none	UTILIZATION	false	10 min
TOP Failures	TOPFailures	none	UTILIZATION	false	10 min
TOP Failures per Minute	TOPFailures1m	none	UTILIZATION	false	10 min
UIDL Total	UIDLTotal	none	UTILIZATION	false	10 min
UIDL Total per Minute	UIDLTotal1m	none	UTILIZATION	false	10 min
UIDL Failures	UIDLFailures	none	UTILIZATION	false	10 min
UIDL Failures per Minute	UIDLFailures1m	none	UTILIZATION	false	10 min
USER Total	USERTotat	none	UTILIZATION	false	10 min

Table 28-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
USER Total per Minute	USERTotal1m	none	UTILIZATION	false	10 min
USER Failures	USERFailures	none	UTILIZATION	false	10 min
USER Failures per Minute	USERFailures1m	none	UTILIZATION	false	10 min
Invalid Commands	InvalidCommands	none	UTILIZATION	false	10 min
Invalid Commands per Minute	InvalidCommands1m	none	UTILIZATION	true	10 min
Connections Total	ConnectionsTotal	none	UTILIZATION	false	10 min
Connections Total per Minute	ConnectionsTotal1m	none	UTILIZATION	false	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	false	10 min
Connections Current per Minute	ConnectionsCurrent1m	none	UTILIZATION	true	10 min
Connections Failed	ConnectionsFailed	none	UTILIZATION	false	10 min
Connections Failed per Minute	ConnectionsFailed1m	none	UTILIZATION	false	10 min
Connections Rejected	ConnectionsRejected	none	UTILIZATION	false	10 min
Connections Rejected per Minute	ConnectionsRejected1m	none	UTILIZATION	false	10 min
CAPA Total	CAPATotal	none	UTILIZATION	false	10 min
CAPA Total per Minute	CAPATotal1m	none	UTILIZATION	false	10 min
CAPA Failures	CAPAFailures	none	UTILIZATION	false	10 min
CAPA Failures per Minute	CAPAFailures1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Exchange 2010 Web Service

This topic details the Exchange 2010 Web Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-5. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Attachments Deleted	AttachmentsDeleted	none	UTILIZATION	false	10 min
Attachments Deleted per Minute	AttachmentsDeleted1m	none	UTILIZATION	false	10 min
Message/Appointment Deletes	Message/AppointmentDeletes	none	UTILIZATION	false	10 min
Message/Appointment Deletes per Minute	Message/AppointmentDeletes1m	none	UTILIZATION	false	10 min
Message Moves/Copies	MessageMoves/Copies	none	UTILIZATION	false	10 min
Message Moves/Copies per Minute	MessageMoves/Copies1m	none	UTILIZATION	false	10 min
Message/Appointment Saves	Message/AppointmentSaves	none	UTILIZATION	false	10 min
Message/Appointment Saves per Minute	Message/AppointmentSaves1m	none	UTILIZATION	false	10 min
Posts Submitted	PostsSubmitted	none	UTILIZATION	false	10 min
Posts Submitted per Minute	PostsSubmitted1m	none	UTILIZATION	false	10 min
Names Checked	NamesChecked	none	UTILIZATION	false	10 min
Names Checked per Minute	NamesChecked1m	none	UTILIZATION	false	10 min
Recipients Edited	RecipientsEdited	none	UTILIZATION	false	10 min
Recipients Edited per Minute	RecipientsEdited1m	none	UTILIZATION	false	10 min
Message Saves	MessageSaves	none	UTILIZATION	false	10 min
Message Saves per Minute	MessageSaves1m	none	UTILIZATION	false	10 min
Recipients Saved	RecipientsSaved	none	UTILIZATION	false	10 min
Recipients Saved per Minute	RecipientsSaved1m	none	UTILIZATION	false	10 min
Message Sends	MessageSends	none	UTILIZATION	false	10 min
Message Sends per Minute	MessageSends1m	none	UTILIZATION	true	10 min
Appointment Edit Recurrence	AppointmentEditRecurrence	none	UTILIZATION	false	10 min
Appointment Edit Recurrence per Minute	AppointmentEditRecurrence1m	none	UTILIZATION	false	10 min
Appointment Updates	AppointmentUpdates	none	UTILIZATION	false	10 min

Table 28-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Appointment Updates per Minute	AppointmentUpdates1m	none	UTILIZATION	false	10 min
Appointment Resolve Free-Busy	AppointmentResolveFree-Busy	none	UTILIZATION	false	10 min
Appointment Resolve Free-Busy per Minute	AppointmentResolveFree-Busy1m	none	UTILIZATION	false	10 min
Appointment Saves	AppointmentSaves	none	UTILIZATION	false	10 min
Appointment Saves per Minute	AppointmentSaves1m	none	UTILIZATION	false	10 min
Appointment Sends	AppointmentSends	none	UTILIZATION	false	10 min
Appointment Sends per Minute	AppointmentSends1m	none	UTILIZATION	false	10 min
Appointment Save Recurrences	AppointmentSaveRecurrences	none	UTILIZATION	false	10 min
Appointment Save Recurrences per Minute	AppointmentSaveRecurrences1m	none	UTILIZATION	false	10 min
Message Attachment Edits	MessageAttachmentEdits	none	UTILIZATION	false	10 min
Message Attachment Edits per Minute	MessageAttachmentEdits1m	none	UTILIZATION	false	10 min
Appointment Attachment Edits	AppointmentAttachmentEdits	none	UTILIZATION	false	10 min
Appointment Attachment Edits per Minute	AppointmentAttachmentEdits1m	none	UTILIZATION	false	10 min
Navigation Options Saves	NavigationOptionsSaves	none	UTILIZATION	false	10 min
Navigation Options Saves per Minute	NavigationOptionsSaves1m	none	UTILIZATION	false	10 min
Folder Creates	FolderCreates	none	UTILIZATION	false	10 min
Folder Creates per Minute	FolderCreates1m	none	UTILIZATION	false	10 min
Folder Renames	FolderRenames	none	UTILIZATION	false	10 min
Folder Renames per Minute	FolderRenames1m	none	UTILIZATION	false	10 min
Authentications	Authentications	none	UTILIZATION	false	10 min
Authentications per Minute	Authentications1m	none	UTILIZATION	true	10 min
Authentication Cache Hits	AuthenticationCacheHits	none	UTILIZATION	false	10 min

Table 28-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Authentication Cache Hits per Minute	AuthenticationCacheHits1m	none	UTILIZATION	false	10 min
Forms Sent	FormsSent	none	UTILIZATION	false	10 min
Forms Sent per Minute	FormsSent1m	none	UTILIZATION	false	10 min
Get App Frame	GetAppFrame	none	UTILIZATION	false	10 min
Get App Frame per Minute	GetAppFrame1m	none	UTILIZATION	false	10 min
Get Nav Bar	GetNavBar	none	UTILIZATION	false	10 min
Get Nav Bar per Minute	GetNavBar1m	none	UTILIZATION	false	10 min
Folder Get Contents	FolderGetContents	none	UTILIZATION	false	10 min
Folder Get Contents per Minute	FolderGetContents1m	none	UTILIZATION	true	10 min
Folder Get View	FolderGetView	none	UTILIZATION	false	10 min
Folder Get View per Minute	FolderGetView1m	none	UTILIZATION	false	10 min
New Item URL	NewItemURL	none	UTILIZATION	false	10 min
New Item URL per Minute	NewItemURL1m	none	UTILIZATION	false	10 min
New Folder Template Data	NewFolderTemplateData	none	UTILIZATION	false	10 min
New Folder Template Data per Minute	NewFolderTemplateData1m	none	UTILIZATION	false	10 min
Appointment Data Retrieves	AppointmentDataRetrieves	none	UTILIZATION	false	10 min
Appointment Data Retrieves per Minute	AppointmentDataRetrieves1m	none	UTILIZATION	false	10 min
Appointment Accept/Decline	AppointmentAccept/Decline	none	UTILIZATION	false	10 min
Appointment Accept/Decline per Minute	AppointmentAccept/Decline1m	none	UTILIZATION	false	10 min
Message/Appointment Opens	Message/AppointmentOpens	none	UTILIZATION	false	10 min
Message/Appointment Opens per Minute	Message/AppointmentOpens1m	none	UTILIZATION	false	10 min
Message Opens	MessageOpens	none	UTILIZATION	false	10 min
Message Opens per Minute	MessageOpens1m	none	UTILIZATION	true	10 min
Appointment Opens	AppointmentOpens	none	UTILIZATION	false	10 min

Table 28-5. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Appointment Opens per Minute	AppointmentOpens1m	none	UTILIZATION	false	10 min
Views Of Calendars	ViewsOfCalendars	none	UTILIZATION	false	10 min
Views Of Calendars per Minute	ViewsOfCalendars1m	none	UTILIZATION	false	10 min
ViewsOfMailFolders	ViewsOfMailFolders	none	UTILIZATION	false	10 min
Views Of Mail Folders per Minute	ViewsOfMailFolders1m	none	UTILIZATION	false	10 min
Authentications in Cache	AuthenticationsinCache	none	UTILIZATION	false	10 min
Authentications in Cache per Minute	AuthenticationsinCache1m	none	UTILIZATION	false	10 min

Configuration Help

Exchange Transport 2010 Server

This topic details the Exchange Transport 2010 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-6. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Remote Delivery Queue Length	ActiveRemoteDeliveryQueueLength	none	UTILIZATION	false	5 min
Retry Remote Delivery Queue Length	RetryRemoteDeliveryQueueLength	none	UTILIZATION	false	5 min
Active Mailbox Delivery Queue Length	ActiveMailboxDeliveryQueueLength	none	UTILIZATION	false	5 min
Retry Mailbox Delivery Queue Length	RetryMailboxDeliveryQueueLength	none	UTILIZATION	false	5 min
Active Non-Smtp Delivery Queue Length	ActiveNon-SmtpDeliveryQueueLength	none	UTILIZATION	false	5 min
Retry Non-Smtp Delivery Queue Length	RetryNon-SmtpDeliveryQueueLength	none	UTILIZATION	false	5 min

Table 28-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Aggregate Delivery Queue Length (All Queues)	AggregateDeliveryQueueLength(AllQueues)	none	UTILIZATION	true	5 min
Items Queued For Delivery Total	ItemsQueuedForDeliveryTotal	none	UTILIZATION	false	10 min
Items Queued For Delivery Total per Minute	ItemsQueuedForDeliveryTotal1m	none	UTILIZATION	false	10 min
Items Completed Delivery Total	ItemsCompletedDeliveryTotal	none	UTILIZATION	false	10 min
Items Completed Delivery Total per Minute	ItemsCompletedDeliveryTotal1m	none	UTILIZATION	false	10 min
Items Queued For Delivery Expired Total	ItemsQueuedForDeliveryExpiredTotal	none	UTILIZATION	false	10 min
Items Queued For Delivery Expired Total per Minute	ItemsQueuedForDeliveryExpiredTotal1m	none	UTILIZATION	false	10 min
Items Deleted By Admin Total	ItemsDeletedByAdminTotal	none	UTILIZATION	false	10 min
Items Deleted By Admin Total per Minute	ItemsDeletedByAdminTotal1m	none	UTILIZATION	false	10 min
Items Resubmitted Total	ItemsResubmittedTotal	none	UTILIZATION	false	10 min
Items Resubmitted Total per Minute	ItemsResubmittedTotal1m	none	UTILIZATION	false	10 min
Messages Queued For Delivery Total	MessagesQueuedForDeliveryTotal	none	UTILIZATION	false	10 min
Messages Queued For Delivery Total per Minute	MessagesQueuedForDeliveryTotal1m	none	UTILIZATION	false	10 min
Messages Completed Delivery Total	MessagesCompletedDeliveryTotal	none	UTILIZATION	false	10 min
Messages Completed Delivery Total per Minute	MessagesCompletedDeliveryTotal1m	none	UTILIZATION	true	10 min
Unreachable Queue Length	UnreachableQueueLength	none	UTILIZATION	false	5 min
Poison Queue Length	PoisonQueueLength	none	UTILIZATION	false	5 min
Submission Queue Length	SubmissionQueueLength	none	UTILIZATION	false	5 min
Messages Submitted Total	MessagesSubmittedTotal	none	UTILIZATION	false	10 min

Table 28-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Submitted Total per Minute	MessagesSubmittedTotal1m	none	UTILIZATION	true	10 min
Submission Queue Items Expired Total	SubmissionQueueItemsExpiredTotal	none	UTILIZATION	false	10 min
Submission Queue Items Expired Total per Minute	SubmissionQueueItemsExpiredTotal1m	none	UTILIZATION	false	10 min

Configuration Help

Exchange Transport 2010 SmtptReceive Service

This topic details the Exchange Transport 2010 SmtptReceive Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-7. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	false	5 min
Connections Total	ConnectionsTotal	none	UTILIZATION	true	5 min
Disconnections By Agents	DisconnectionsByAgents	none	UTILIZATION	false	5 min
Messages Received Total	MessagesReceivedTotal	none	UTILIZATION	false	10 min
Messages Received Total per Minute	MessagesReceivedTotal1m	none	UTILIZATION	true	10 min
Message Bytes Received Total	MessageBytesReceivedTotal	none	UTILIZATION	false	10 min
Message Bytes Received Total per Minute	MessageBytesReceivedTotal1m	none	UTILIZATION	false	10 min
Messages Refused for Size	MessagesRefusedforSize	none	UTILIZATION	false	5 min
Recipients Accepted Total	RecipientsAcceptedTotal	none	UTILIZATION	false	10 min
Recipients Accepted Total per Minute	RecipientsAcceptedTotal1m	none	UTILIZATION	false	10 min
Average Bytes/message	AverageBytes/message	B	UTILIZATION	false	5 min

Table 28-7. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Average Recipients/message	AverageRecipients/message	none	UTILIZATION	false	5 min
Average Bytes/connection	AverageBytes/connection	B	UTILIZATION	false	5 min
Average Messages/connection	AverageMessages/connection	none	UTILIZATION	false	5 min
Bytes Received Total	BytesReceivedTotal	none	UTILIZATION	false	10 min
Bytes Received Total per Minute	BytesReceivedTotal1m	none	UTILIZATION	false	10 min
Tarpping Delays Authenticated	TarppingDelaysAuthenticated	none	UTILIZATION	false	5 min
Tarpping Delays Anonymous	TarppingDelaysAnonymous	none	UTILIZATION	false	5 min

Configuration Help

Exchange Transport 2010 SmtplibService

This topic details the Exchange Transport 2010 SmtplibService metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	false	5 min
Connections Total	ConnectionsTotal	none	UTILIZATION	false	10 min
Connections Total per Minute	ConnectionsTotal1m	none	UTILIZATION	true	10 min
Messages Sent Total	MessagesSentTotal	none	UTILIZATION	false	10 min
Messages Sent Total per Minute	MessagesSentTotal1m	none	UTILIZATION	true	10 min
Message Bytes Sent Total	MessageBytesSentTotal	B	UTILIZATION	false	10 min
Message Bytes Sent Total per Minute	MessageBytesSentTotal1m	B	UTILIZATION	true	10 min
Bytes Sent Total	BytesSentTotal	none	UTILIZATION	false	10 min

Table 28-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Bytes Sent Total per Minute	BytesSentTotal1m	none	UTILIZATION	false	10 min
Recipients Sent	RecipientsSent	none	UTILIZATION	false	10 min
Recipients Sent per Minute	RecipientsSent1m	none	UTILIZATION	false	10 min
Average Recipients/message	AverageRecipients/message	none	UTILIZATION	false	5 min
Average Message bytes/message	AverageMessage bytes/message	B	UTILIZATION	false	5 min
Average Messages/connection	AverageMessage s/connection	none	UTILIZATION	false	5 min
Average Bytes/connection	AverageBytes/connection	B	UTILIZATION	false	5 min

Configuration Help

Exchange 2007 Server

This topic details the Exchange 2007 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 28-9. Custom Properties Supported

Name	Description
version	Exchange Version
build	Build Number

Supported Control Actions: None

Table 28-10. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
RPC Packets	RPCPackets	none	THROUGHPUT	false	10 min
RPC Packets per Minute	RPCPackets1m	none	THROUGHPUT	false	10 min
RPC Operations	RPCOperations	none	THROUGHPUT	false	10 min
RPC Operations per Minute	RPCOperations1m	none	THROUGHPUT	false	10 min
Read Bytes RPC Clients	ReadBytesRPCClients	B	THROUGHPUT	false	10 min
Read Bytes RPC Clients per Minute	ReadBytesRPCClients1m	B	THROUGHPUT	false	10 min
Write Bytes RPC Clients	WriteBytesRPCClients	B	THROUGHPUT	false	10 min

Table 28-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Write Bytes RPC Clients per Minute	WriteBytesRPCClients1m	B	THROUGHPUT	false	10 min
RPC Averaged Latency	RPCAveragedLatency	ms	THROUGHPUT	false	5 min
RPC Num. Of Slow Packets	RPCNum.OfSlowPackets	none	THROUGHPUT	false	10 min
RPC Num. Of Slow Packets per Minute	RPCNum.OfSlowPackets1m	none	THROUGHPUT	false	10 min
Push Notifications Generated	PushNotificationsGenerated	none	THROUGHPUT	false	10 min
Push Notifications Generated per Minute	PushNotificationsGenerated1m	none	THROUGHPUT	false	10 min
Push Notifications Skipped	PushNotificationsSkipped	none	THROUGHPUT	false	10 min
Push Notifications Skipped per Minute	PushNotificationsSkipped1m	none	THROUGHPUT	false	10 min
RPC Requests	RPCRequests	none	THROUGHPUT	true	5 min
User Count	UserCount	none	UTILIZATION	false	5 min
Active User Count	ActiveUserCount	none	UTILIZATION	false	5 min
Maximum Users	MaximumUsers	none	UTILIZATION	false	30 min
Anonymous User Count	AnonymousUserCount	none	UTILIZATION	false	5 min
Active Anonymous User Count	ActiveAnonymousUserCount	none	UTILIZATION	false	5 min
Maximum Anonymous Users	MaximumAnonymousUsers	none	UTILIZATION	false	30 min
Connection Count	ConnectionCount	none	UTILIZATION	true	5 min
Active Connection Count	ActiveConnectionCount	none	UTILIZATION	false	5 min
Maximum Connections	MaximumConnections	none	UTILIZATION	false	30 min
Push Notifications Cache Size	PushNotificationsCacheSize	none	UTILIZATION	false	5 min
Single Appointments Created	SingleAppointmentsCreated	none	UTILIZATION	false	10 min
Single Appointments Created per Minute	SingleAppointmentsCreated1m	none	UTILIZATION	false	10 min
Recurring Appointments Created	RecurringAppointmentsCreated	none	UTILIZATION	false	10 min

Table 28-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Recurring Appointments Created per Minute	RecurringAppointmentsCreated1m	none	UTILIZATION	false	10 min
Single Appointments Modified	SingleAppointmentsModified	none	UTILIZATION	false	10 min
Single Appointments Modified per Minute	SingleAppointmentsModified1m	none	UTILIZATION	false	10 min
Recurring Appointments Modified	RecurringAppointmentsModified	none	UTILIZATION	false	10 min
Recurring Appointments Modified per Minute	RecurringAppointmentsModified1m	none	UTILIZATION	false	10 min
Single Appointments Deleted	SingleAppointmentsDeleted	none	UTILIZATION	false	10 min
Single Appointments Deleted per Minute	SingleAppointmentsDeleted1m	none	UTILIZATION	false	10 min
Recurring Appointments Deleted	RecurringAppointmentsDeleted	none	UTILIZATION	false	10 min
Recurring Appointments Deleted per Minute	RecurringAppointmentsDeleted1m	none	UTILIZATION	false	10 min
Recurring Master Appointments Expanded	RecurringMasterAppointmentsExpanded	none	UTILIZATION	false	10 min
Recurring Master Appointments Expanded per Minute	RecurringMasterAppointmentsExpanded1m	none	UTILIZATION	false	10 min
Appointment Instances Created	AppointmentInstancesCreated	none	UTILIZATION	false	10 min
Appointment Instances Created per Minute	AppointmentInstancesCreated1m	none	UTILIZATION	false	10 min
Appointment Instances Deleted	AppointmentInstancesDeleted	none	UTILIZATION	false	10 min
Appointment Instances Deleted per Minute	AppointmentInstancesDeleted1m	none	UTILIZATION	false	10 min
FB Publish Count	FBPublishCount	none	UTILIZATION	false	10 min
FB Publish Count per Minute	FBPublishCount1m	none	UTILIZATION	false	10 min

Table 28-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Background Expansion Queue Length	BackgroundExpansionQueueLength	none	THROUGHPUT	false	5 min
Virus Scan Messages Processed	VirusScanMessagesProcessed	none	THROUGHPUT	false	10 min
Virus Scan Messages Processed per Minute	VirusScanMessagesProcessed1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Cleaned	VirusScanMessagesCleaned	none	THROUGHPUT	false	10 min
Virus Scan Messages Cleaned per Minute	VirusScanMessagesCleaned1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Quarantined	VirusScanMessagesQuarantined	none	THROUGHPUT	false	10 min
Virus Scan Messages Quarantined per Minute	VirusScanMessagesQuarantined1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Deleted	VirusScanMessagesDeleted	none	THROUGHPUT	false	10 min
Virus Scan Messages Deleted per Minute	VirusScanMessagesDeleted1m	none	THROUGHPUT	false	10 min
Virus Scan Files Scanned	VirusScanFilesScanned	none	THROUGHPUT	false	10 min
Virus Scan Files Scanned per Minute	VirusScanFilesScanned1m	none	THROUGHPUT	false	10 min
Virus Scan Files Cleaned	VirusScanFilesCleaned	none	THROUGHPUT	false	10 min
Virus Scan Files Cleaned per Minute	VirusScanFilesCleaned1m	none	THROUGHPUT	false	10 min
Virus Scan Files Quarantined	VirusScanFilesQuarantined	none	THROUGHPUT	false	10 min
Virus Scan Files Quarantined per Minute	VirusScanFilesQuarantined1m	none	THROUGHPUT	false	10 min
Virus Scan Bytes Scanned	VirusScanBytesScanned	B	THROUGHPUT	false	10 min
Virus Scan Bytes Scanned per Minute	VirusScanBytesScanned1m	B	THROUGHPUT	false	10 min
Virus Scan Queue Length	VirusScanQueueLength	none	THROUGHPUT	false	10 min
Virus Scan Queue Length per Minute	VirusScanQueueLength1m	none	THROUGHPUT	false	10 min

Table 28-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Virus Scan Folders Scanned In Background	VirusScanFolder sScannedInBackg round	none	THROUGHPUT	false	10 min
Virus Scan Folders Scanned In Background per Minute	VirusScanFolder sScannedInBackg round1m	none	THROUGHPUT	false	10 min
Virus Scan Messages Scanned In Background	VirusScanMessa gesScannedInBac kground	none	THROUGHPUT	false	10 min
Virus Scan Messages Scanned In Background per Minute	VirusScanMessa gesScannedInBac kground1m	none	THROUGHPUT	false	10 min
VM Largest Block Size	VMLargestBlock Size	none	UTILIZATION	false	5 min
VM Total Free Blocks	VMTotalFreeBloc ks	none	UTILIZATION	false	5 min
VM Total 16MB Free Blocks	VMTotal16MBFr eeBlocks	none	UTILIZATION	false	5 min
VM Total Large Free Block Bytes	VMTotalLargeFr eeBlockBytes	none	UTILIZATION	false	5 min
DL Membership Cache Entries Count	DLMembershipC acheEntriesCoun t	none	UTILIZATION	false	5 min
DL Membership Cache Size	DLMembershipC acheSize	none	UTILIZATION	false	5 min
DL Membership Cache Hits	DLMembershipC acheHits	none	UTILIZATION	false	10 min
DL Membership Cache Hits per Minute	DLMembershipC acheHits1m	none	UTILIZATION	false	10 min
DL Membership Cache Misses	DLMembershipC acheMisses	none	UTILIZATION	false	10 min
DL Membership Cache Misses per Minute	DLMembershipC acheMisses1m	none	UTILIZATION	false	10 min
RPC Clients Bytes Read	RPCClientsBytes Read	B	THROUGHPUT	false	10 min
RPC Clients Bytes Read per Minute	RPCClientsBytes Read1m	B	THROUGHPUT	false	10 min
RPC Clients Bytes Written	RPCClientsBytes Written	B	THROUGHPUT	false	10 min
RPC Clients Bytes Written per Minute	RPCClientsBytes Written1m	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Read	RPCClientsUnco mpressedBytesR ead	B	THROUGHPUT	false	10 min

Table 28-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
RPC Clients Uncompressed Bytes Read per Minute	RPCClientsUncompressedBytesRead1m	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Written	RPCClientsUncompressedBytesWritten	B	THROUGHPUT	false	10 min
RPC Clients Uncompressed Bytes Written per Minute	RPCClientsUncompressedBytesWritten1m	B	THROUGHPUT	false	10 min
Slow QP Threads	SlowQPThreads	none	UTILIZATION	false	5 min
Slow Search Threads	SlowSearchThreads	none	UTILIZATION	false	5 min
Messages Delivered	MessagesDelivered	none	THROUGHPUT	false	10 min
Messages Delivered per Minute	MessagesDelivered1m	none	THROUGHPUT	false	10 min
Message Recipients Delivered	MessageRecipientsDelivered	none	UTILIZATION	false	10 min
Message Recipients Delivered per Minute	MessageRecipientsDelivered1m	none	UTILIZATION	false	10 min
Messages Sent	MessagesSent	none	UTILIZATION	false	10 min
Messages Sent per Minute	MessagesSent1m	none	UTILIZATION	false	10 min
Messages Submitted	MessagesSubmitted	none	UTILIZATION	false	10 min
Messages Submitted per Minute	MessagesSubmitted1m	none	UTILIZATION	false	10 min
Average Delivery Time	AverageDeliveryTime	none	UTILIZATION	false	5 min
Total Size of Recoverable Items	TotalSizeofRecoverableItems	none	UTILIZATION	false	5 min
Total Count of Recoverable Items	TotalCountofRecoverableItems	none	UTILIZATION	false	5 min
Client Logons	ClientLogons	none	UTILIZATION	false	10 min
Client Logons per Minute	ClientLogons1m	none	UTILIZATION	false	10 min
Active Client Logons	ActiveClientLogons	none	UTILIZATION	false	5 min
Local deliveries	Localdeliveries	none	UTILIZATION	false	5 min
Messages Queued For Submission	MessagesQueuedForSubmission	none	UTILIZATION	false	5 min

Table 28-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Receive Queue Size	ReceiveQueueSize	none	UTILIZATION	true	5 min
Categorization Count	CategorizationCount	none	UTILIZATION	false	10 min
Categorization Count per Minute	CategorizationCount1m	none	UTILIZATION	false	10 min
Single Instance Ratio	SingleInstanceRatio	none	UTILIZATION	false	5 min

Configuration Help

Exchange 2007 IMAP4 Service

This topic details the Exchange 2007 IMAP4 Service metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-11. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
APPEND Total	APPENDTotal	none	UTILIZATION	false	10 min
APPEND Total per Minute	APPENDTotal1m	none	UTILIZATION	false	10 min
APPEND Failures	APPENDFailures	none	UTILIZATION	false	10 min
APPEND Failures per Minute	APPENDFailures1m	none	UTILIZATION	false	10 min
AUTHENTICATE Total	AUTHENTICATETotal	none	UTILIZATION	false	10 min
AUTHENTICATE Total per Minute	AUTHENTICATETotal1m	none	UTILIZATION	false	10 min
AUTHENTICATE Failures	AUTHENTICATEFailures	none	UTILIZATION	false	10 min
AUTHENTICATE Failures per Minute	AUTHENTICATEFailures1m	none	UTILIZATION	false	10 min
CAPABILITY Total	CAPABILITYTotal	none	UTILIZATION	false	10 min
CAPABILITY Total per Minute	CAPABILITYTotal1m	none	UTILIZATION	false	10 min
CAPABILITY Failures	CAPABILITYFailures	none	UTILIZATION	false	10 min
CAPABILITY Failures per Minute	CAPABILITYFailures1m	none	UTILIZATION	false	10 min
CHECK Total	CHECKTotal	none	UTILIZATION	false	10 min

Table 28-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
CHECK Total per Minute	CHECKTotal1m	none	UTILIZATION	false	10 min
CHECK Failures	CHECKFailures	none	UTILIZATION	false	10 min
CHECK Failures per Minute	CHECKFailures1m	none	UTILIZATION	false	10 min
CLOSE Total	CLOSETotal	none	UTILIZATION	false	10 min
CLOSE Total per Minute	CLOSETotal1m	none	UTILIZATION	false	10 min
CLOSE Failures	CLOSEFailures	none	UTILIZATION	false	10 min
CLOSE Failures per Minute	CLOSEFailures1m	none	UTILIZATION	false	10 min
COPY Total	COPYTotal	none	UTILIZATION	false	10 min
COPY Total per Minute	COPYTotal1m	none	UTILIZATION	false	10 min
COPY Failures	COPYFailures	none	UTILIZATION	false	10 min
COPY Failures per Minute	COPYFailures1m	none	UTILIZATION	false	10 min
CREATE Total	CREATETotal	none	UTILIZATION	false	10 min
CREATE Total per Minute	CREATETotal1m	none	UTILIZATION	false	10 min
CREATE Failures	CREATEFailures	none	UTILIZATION	false	10 min
CREATE Failures per Minute	CREATEFailures1m	none	UTILIZATION	false	10 min
DELETE Total	DELETETotal	none	UTILIZATION	false	10 min
DELETE Total per Minute	DELETETotal1m	none	UTILIZATION	false	10 min
DELETE Failures	DELETEFailures	none	UTILIZATION	false	10 min
DELETE Failures per Minute	DELETEFailures1m	none	UTILIZATION	false	10 min
EXAMINE Total	EXAMINETotal	none	UTILIZATION	false	10 min
EXAMINE Total per Minute	EXAMINETotal1m	none	UTILIZATION	false	10 min
EXAMINE Failures	EXAMINEFailures	none	UTILIZATION	false	10 min
EXAMINE Failures per Minute	EXAMINEFailures1m	none	UTILIZATION	false	10 min
EXPUNGE Total	EXPUNGETotal	none	UTILIZATION	false	10 min
EXPUNGE Total per Minute	EXPUNGETotal1m	none	UTILIZATION	false	10 min
EXPUNGE Failures	EXPUNGEFailures	none	UTILIZATION	false	10 min
EXPUNGE Failures per Minute	EXPUNGEFailures1m	none	UTILIZATION	false	10 min

Table 28-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
FETCH Total	FETCHTotal	none	UTILIZATION	false	10 min
FETCH Total per Minute	FETCHTotal1m	none	UTILIZATION	false	10 min
FETCH Failures	FETCHFailures	none	UTILIZATION	false	10 min
FETCH Failures per Minute	FETCHFailures1m	none	UTILIZATION	false	10 min
LIST Total	LISTTotal	none	UTILIZATION	false	10 min
LIST Total per Minute	LISTTotal1m	none	UTILIZATION	false	10 min
LIST Failures	LISTFailures	none	UTILIZATION	false	10 min
LIST Failures per Minute	LISTFailures1m	none	UTILIZATION	false	10 min
LOGIN Total	LOGINTotal	none	UTILIZATION	false	10 min
LOGIN Total per Minute	LOGINTotal1m	none	UTILIZATION	true	10 min
LOGIN Failures	LOGINFailures	none	UTILIZATION	false	10 min
LOGIN Failures per Minute	LOGINFailures1m	none	UTILIZATION	false	10 min
LOGOUT Total	LOGOUTTotal	none	UTILIZATION	false	10 min
LOGOUT Total per Minute	LOGOUTTotal1m	none	UTILIZATION	false	10 min
LOGOUT Failures	LOGOUTFailures	none	UTILIZATION	false	10 min
LOGOUT Failures per Minute	LOGOUTFailures1m	none	UTILIZATION	false	10 min
LSUB Total	LSUBTotal	none	UTILIZATION	false	10 min
LSUB Total per Minute	LSUBTotal1m	none	UTILIZATION	false	10 min
LSUB Failures	LSUBFailures	none	UTILIZATION	false	10 min
LSUB Failures per Minute	LSUBFailures1m	none	UTILIZATION	false	10 min
NOOP Total	NOOPTotal	none	UTILIZATION	false	10 min
NOOP Total per Minute	NOOPTotal1m	none	UTILIZATION	false	10 min
NOOP Failures	NOOPFailures	none	UTILIZATION	false	10 min
NOOP Failures per Minute	NOOPFailures1m	none	UTILIZATION	false	10 min
RENAME Total	RENAMETotal	none	UTILIZATION	false	10 min
RENAME Total per Minute	RENAMETotal1m	none	UTILIZATION	false	10 min
RENAME Failures	RENAMEFailures	none	UTILIZATION	false	10 min
RENAME Failures per Minute	RENAMEFailures1m	none	UTILIZATION	false	10 min
SEARCH Total	SEARCHTotal	none	UTILIZATION	false	10 min

Table 28-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
SEARCH Total per Minute	SEARCHTotal1m	none	UTILIZATION	false	10 min
SEARCH Failures	SEARCHFailures	none	UTILIZATION	false	10 min
SEARCH Failures per Minute	SEARCHFailures1m	none	UTILIZATION	false	10 min
SELECT Total	SELECTTotal	none	UTILIZATION	false	10 min
SELECT Total per Minute	SELECTTotal1m	none	UTILIZATION	false	10 min
SELECT Failures	SELECTFailures	none	UTILIZATION	false	10 min
SELECT Failures per Minute	SELECTFailures1m	none	UTILIZATION	false	10 min
STATUS Total	STATUSTotal	none	UTILIZATION	false	10 min
STATUS Total per Minute	STATUSTotal1m	none	UTILIZATION	true	10 min
STATUS Failures	STATUSFailures	none	UTILIZATION	false	10 min
STATUS Failures per Minute	STATUSFailures1m	none	UTILIZATION	false	10 min
STORE Total	STORETotal	none	UTILIZATION	false	10 min
STORE Total per Minute	STORETotal1m	none	UTILIZATION	false	10 min
STORE Failures	STOREFailures	none	UTILIZATION	false	10 min
STORE Failures per Minute	STOREFailures1m	none	UTILIZATION	false	10 min
SUBSCRIBE Total	SUBSCRIBETotal	none	UTILIZATION	false	10 min
SUBSCRIBE Total per Minute	SUBSCRIBETotal1m	none	UTILIZATION	false	10 min
SUBSCRIBE Failures	SUBSCRIBEFailures	none	UTILIZATION	false	10 min
SUBSCRIBE Failures per Minute	SUBSCRIBEFailures1m	none	UTILIZATION	false	10 min
UNSUBSCRIBE Total	UNSUBSCRIBETotal	none	UTILIZATION	false	10 min
UNSUBSCRIBE Total per Minute	UNSUBSCRIBETotal1m	none	UTILIZATION	false	10 min
UNSUBSCRIBE Failures	UNSUBSCRIBEFailures	none	UTILIZATION	false	10 min
UNSUBSCRIBE Failures per Minute	UNSUBSCRIBEFailures1m	none	UTILIZATION	false	10 min
IDLE Total	IDLETTotal	none	UTILIZATION	false	10 min
IDLE Total per Minute	IDLETTotal1m	none	UTILIZATION	false	10 min
IDLE Failures	IDLEFailures	none	UTILIZATION	false	10 min
IDLE Failures per Minute	IDLEFailures1m	none	UTILIZATION	false	10 min

Table 28-11. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
NAMESPACE Total	NAMESPACETotal	none	UTILIZATION	false	10 min
NAMESPACE Total per Minute	NAMESPACETotal1m	none	UTILIZATION	false	10 min
NAMESPACE Failures	NAMESPACEFailures	none	UTILIZATION	false	10 min
NAMESPACE Failures per Minute	NAMESPACEFailures1m	none	UTILIZATION	false	10 min
Invalid Commands	InvalidCommands	none	UTILIZATION	false	10 min
Invalid Commands per Minute	InvalidCommands1m	none	UTILIZATION	true	10 min
Connections Failed	ConnectionsFailed	none	UTILIZATION	false	10 min
Connections Failed per Minute	ConnectionsFailed1m	none	UTILIZATION	false	10 min
Connections Rejected	ConnectionsRejected	none	UTILIZATION	false	10 min
Connections Rejected per Minute	ConnectionsRejected1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min
Connections Total	ConnectionsTotal	none	UTILIZATION	false	10 min
Connections Total per Minute	ConnectionsTotal1m	none	UTILIZATION	false	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	true	5 min

Configuration Help

Exchange 2007 POP3 Service

This topic details the Exchange 2007 POP3 Service metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-12. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
AUTH Total	AUTHTotal	none	UTILIZATION	false	10 min
AUTH Total per Minute	AUTHTotal1m	none	UTILIZATION	false	10 min
AUTH Failures	AUTHFailures	none	UTILIZATION	false	10 min

Table 28-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
AUTH Failures per Minute	AUTHFailures1m	none	UTILIZATION	false	10 min
PASS Total	PASSTotal	none	UTILIZATION	false	10 min
PASS Total per Minute	PASSTotal1m	none	UTILIZATION	false	10 min
PASS Failures	PASSFailures	none	UTILIZATION	false	10 min
PASS Failures per Minute	PASSFailures1m	none	UTILIZATION	false	10 min
QUIT Total	QUITTotal	none	UTILIZATION	false	10 min
QUIT Total per Minute	QUITTotal1m	none	UTILIZATION	false	10 min
QUIT Failures	QUITFailures	none	UTILIZATION	false	10 min
QUIT Failures per Minute	QUITFailures1m	none	UTILIZATION	false	10 min
STAT Total	STATTotal	none	UTILIZATION	false	10 min
STAT Total per Minute	STATTotal1m	none	UTILIZATION	true	10 min
STAT Failures	STATFailures	none	UTILIZATION	false	10 min
STAT Failures per Minute	STATFailures1m	none	UTILIZATION	false	10 min
LIST Total	LISTTotal	none	UTILIZATION	false	10 min
LIST Total per Minute	LISTTotal1m	none	UTILIZATION	false	10 min
LIST Failures	LISTFailures	none	UTILIZATION	false	10 min
LIST Failures per Minute	LISTFailures1m	none	UTILIZATION	false	10 min
RETR Total	RETRTotal	none	UTILIZATION	false	10 min
RETR Total per Minute	RETRTotal1m	none	UTILIZATION	true	10 min
RETR Failures	RETRFailures	none	UTILIZATION	false	10 min
RETR Failures per Minute	RETRFailures1m	none	UTILIZATION	false	10 min
DELE Total	DELETTotal	none	UTILIZATION	false	10 min
DELE Total per Minute	DELETTotal1m	none	UTILIZATION	false	10 min
DELE Failures	DELEFailures	none	UTILIZATION	false	10 min
DELE Failures per Minute	DELEFailures1m	none	UTILIZATION	false	10 min
NOOP Total	NOOPTotal	none	UTILIZATION	false	10 min
NOOP Total per Minute	NOOPTotal1m	none	UTILIZATION	false	10 min
NOOP Failures	NOOPFailures	none	UTILIZATION	false	10 min
NOOP Failures per Minute	NOOPFailures1m	none	UTILIZATION	false	10 min

Table 28-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
RSET Total	RSETTotal	none	UTILIZATION	false	10 min
RSET Total per Minute	RSETTotal1m	none	UTILIZATION	false	10 min
RSET Failures	RSETFailures	none	UTILIZATION	false	10 min
RSET Failures per Minute	RSETFailures1m	none	UTILIZATION	false	10 min
TOP Total	TOPTotal	none	UTILIZATION	false	10 min
TOP Total per Minute	TOPTotal1m	none	UTILIZATION	false	10 min
TOP Failures	TOPFailures	none	UTILIZATION	false	10 min
TOP Failures per Minute	TOPFailures1m	none	UTILIZATION	false	10 min
UIDL Total	UIDLTotal	none	UTILIZATION	false	10 min
UIDL Total per Minute	UIDLTotal1m	none	UTILIZATION	false	10 min
UIDL Failures	UIDLFailures	none	UTILIZATION	false	10 min
UIDL Failures per Minute	UIDLFailures1m	none	UTILIZATION	false	10 min
USER Total	USERTotal	none	UTILIZATION	false	10 min
USER Total per Minute	USERTotal1m	none	UTILIZATION	false	10 min
USER Failures	USERFailures	none	UTILIZATION	false	10 min
USER Failures per Minute	USERFailures1m	none	UTILIZATION	false	10 min
Invalid Commands	InvalidCommands	none	UTILIZATION	false	10 min
Invalid Commands per Minute	InvalidCommands1m	none	UTILIZATION	true	10 min
Connections Total	ConnectionsTotal	none	UTILIZATION	false	10 min
Connections Total per Minute	ConnectionsTotal1m	none	UTILIZATION	false	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	false	10 min
Connections Current per Minute	ConnectionsCurrent1m	none	UTILIZATION	true	10 min
Connections Failed	ConnectionsFailed	none	UTILIZATION	false	10 min
Connections Failed per Minute	ConnectionsFailed1m	none	UTILIZATION	false	10 min
Connections Rejected	ConnectionsRejected	none	UTILIZATION	false	10 min
Connections Rejected per Minute	ConnectionsRejected1m	none	UTILIZATION	false	10 min

Table 28-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
CAPA Total	CAPATotal	none	UTILIZATION	false	10 min
CAPA Total per Minute	CAPATotal1m	none	UTILIZATION	false	10 min
CAPA Failures	CAPAFailures	none	UTILIZATION	false	10 min
CAPA Failures per Minute	CAPAFailures1m	none	UTILIZATION	false	10 min
Availability	Availability	percentage	AVAILABILITY	true	10 min

Configuration Help

Exchange 2007 Web Service

This topic details the Exchange 2007 Web Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-13. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Attachments Deleted	AttachmentsDeleted	none	UTILIZATION	false	10 min
Attachments Deleted per Minute	AttachmentsDeleted1m	none	UTILIZATION	false	10 min
Message/Appointment Deletes	Message/AppointmentDeletes	none	UTILIZATION	false	10 min
Message/Appointment Deletes per Minute	Message/AppointmentDeletes1m	none	UTILIZATION	false	10 min
Message Moves/Copies	MessageMoves/Copies	none	UTILIZATION	false	10 min
Message Moves/Copies per Minute	MessageMoves/Copies1m	none	UTILIZATION	false	10 min
Message/Appointment Saves	Message/AppointmentSaves	none	UTILIZATION	false	10 min
Message/Appointment Saves per Minute	Message/AppointmentSaves1m	none	UTILIZATION	false	10 min
Posts Submitted	PostsSubmitted	none	UTILIZATION	false	10 min
Posts Submitted per Minute	PostsSubmitted1m	none	UTILIZATION	false	10 min
Names Checked	NamesChecked	none	UTILIZATION	false	10 min

Table 28-13. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Names Checked per Minute	NamesChecked1m	none	UTILIZATION	false	10 min
Recipients Edited	RecipientsEdited	none	UTILIZATION	false	10 min
Recipients Edited per Minute	RecipientsEdited1m	none	UTILIZATION	false	10 min
Message Saves	MessageSaves	none	UTILIZATION	false	10 min
Message Saves per Minute	MessageSaves1m	none	UTILIZATION	false	10 min
Recipients Saved	RecipientsSaved	none	UTILIZATION	false	10 min
Recipients Saved per Minute	RecipientsSaved1m	none	UTILIZATION	false	10 min
Message Sends	MessageSends	none	UTILIZATION	false	10 min
Message Sends per Minute	MessageSends1m	none	UTILIZATION	true	10 min
Appointment Edit Recurrence	AppointmentEditRecurrence	none	UTILIZATION	false	10 min
Appointment Edit Recurrence per Minute	AppointmentEditRecurrence1m	none	UTILIZATION	false	10 min
Appointment Updates	AppointmentUpdates	none	UTILIZATION	false	10 min
Appointment Updates per Minute	AppointmentUpdates1m	none	UTILIZATION	false	10 min
Appointment Resolve Free-Busy	AppointmentResolveFree-Busy	none	UTILIZATION	false	10 min
Appointment Resolve Free-Busy per Minute	AppointmentResolveFree-Busy1m	none	UTILIZATION	false	10 min
Appointment Saves	AppointmentSaves	none	UTILIZATION	false	10 min
Appointment Saves per Minute	AppointmentSaves1m	none	UTILIZATION	false	10 min
Appointment Sends	AppointmentSends	none	UTILIZATION	false	10 min
Appointment Sends per Minute	AppointmentSends1m	none	UTILIZATION	false	10 min
Appointment Save Recurrences	AppointmentSaveRecurrences	none	UTILIZATION	false	10 min
Appointment Save Recurrences per Minute	AppointmentSaveRecurrences1m	none	UTILIZATION	false	10 min
Message Attachment Edits	MessageAttachmentEdits	none	UTILIZATION	false	10 min
Message Attachment Edits per Minute	MessageAttachmentEdits1m	none	UTILIZATION	false	10 min

Table 28-13. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Appointment Attachment Edits	AppointmentAttachmentEdits	none	UTILIZATION	false	10 min
Appointment Attachment Edits per Minute	AppointmentAttachmentEdits1m	none	UTILIZATION	false	10 min
Navigation Options Saves	NavigationOptionsSaves	none	UTILIZATION	false	10 min
Navigation Options Saves per Minute	NavigationOptionsSaves1m	none	UTILIZATION	false	10 min
Folder Creates	FolderCreates	none	UTILIZATION	false	10 min
Folder Creates per Minute	FolderCreates1m	none	UTILIZATION	false	10 min
Folder Renames	FolderRenames	none	UTILIZATION	false	10 min
Folder Renames per Minute	FolderRenames1m	none	UTILIZATION	false	10 min
Authentications	Authentications	none	UTILIZATION	false	10 min
Authentications per Minute	Authentications1m	none	UTILIZATION	true	10 min
Authentication Cache Hits	AuthenticationCacheHits	none	UTILIZATION	false	10 min
Authentication Cache Hits per Minute	AuthenticationCacheHits1m	none	UTILIZATION	false	10 min
Forms Sent	FormsSent	none	UTILIZATION	false	10 min
Forms Sent per Minute	FormsSent1m	none	UTILIZATION	false	10 min
Get App Frame	GetAppFrame	none	UTILIZATION	false	10 min
Get App Frame per Minute	GetAppFrame1m	none	UTILIZATION	false	10 min
Get Nav Bar	GetNavBar	none	UTILIZATION	false	10 min
Get Nav Bar per Minute	GetNavBar1m	none	UTILIZATION	false	10 min
Folder Get Contents	FolderGetContents	none	UTILIZATION	false	10 min
Folder Get Contents per Minute	FolderGetContents1m	none	UTILIZATION	true	10 min
Folder Get View	FolderGetView	none	UTILIZATION	false	10 min
Folder Get View per Minute	FolderGetView1m	none	UTILIZATION	false	10 min
New Item URL	NewItemURL	none	UTILIZATION	false	10 min
New Item URL per Minute	NewItemURL1m	none	UTILIZATION	false	10 min
New Folder Template Data	NewFolderTemplateData	none	UTILIZATION	false	10 min

Table 28-13. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
New Folder Template Data per Minute	NewFolderTemplateData1m	none	UTILIZATION	false	10 min
Appointment Data Retrieves	AppointmentDataRetrieves	none	UTILIZATION	false	10 min
Appointment Data Retrieves per Minute	AppointmentDataRetrieves1m	none	UTILIZATION	false	10 min
Appointment Accept/Decline	AppointmentAccept/Decline	none	UTILIZATION	false	10 min
Appointment Accept/Decline per Minute	AppointmentAccept/Decline1m	none	UTILIZATION	false	10 min
Message/Appointment Opens	Message/AppointmentOpens	none	UTILIZATION	false	10 min
Message/Appointment Opens per Minute	Message/AppointmentOpens1m	none	UTILIZATION	false	10 min
Message Opens	MessageOpens	none	UTILIZATION	false	10 min
Message Opens per Minute	MessageOpens1m	none	UTILIZATION	true	10 min
Appointment Opens	AppointmentOpens	none	UTILIZATION	false	10 min
Appointment Opens per Minute	AppointmentOpens1m	none	UTILIZATION	false	10 min
Views Of Calendars	ViewsOfCalendars	none	UTILIZATION	false	10 min
Views Of Calendars per Minute	ViewsOfCalendars1m	none	UTILIZATION	false	10 min
ViewsOfMailFolders	ViewsOfMailFolders	none	UTILIZATION	false	10 min
Views Of Mail Folders per Minute	ViewsOfMailFolders1m	none	UTILIZATION	false	10 min
Authentications in Cache	AuthenticationsInCache	none	UTILIZATION	false	10 min
Authentications in Cache per Minute	AuthenticationsInCache1m	none	UTILIZATION	false	10 min

Configuration Help

Exchange Transport 2007 Server

This topic details the Exchange Transport 2007 Server metrics.

Log Track Supported: Yes

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-14. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
Active Remote Delivery Queue Length	ActiveRemoteDeliveryQueueLength	none	UTILIZATION	false	5 min
Retry Remote Delivery Queue Length	RetryRemoteDeliveryQueueLength	none	UTILIZATION	false	5 min
Active Mailbox Delivery Queue Length	ActiveMailboxDeliveryQueueLength	none	UTILIZATION	false	5 min
Retry Mailbox Delivery Queue Length	RetryMailboxDeliveryQueueLength	none	UTILIZATION	false	5 min
Active Non-Smtp Delivery Queue Length	ActiveNon-SmtpDeliveryQueueLength	none	UTILIZATION	false	5 min
Retry Non-Smtp Delivery Queue Length	RetryNon-SmtpDeliveryQueueLength	none	UTILIZATION	false	5 min
Aggregate Delivery Queue Length (All Queues)	AggregateDeliveryQueueLength(AllQueues)	none	UTILIZATION	true	5 min
Items Queued For Delivery Total	ItemsQueuedForDeliveryTotal	none	UTILIZATION	false	10 min
Items Queued For Delivery Total per Minute	ItemsQueuedForDeliveryTotal1m	none	UTILIZATION	false	10 min
Items Completed Delivery Total	ItemsCompletedDeliveryTotal	none	UTILIZATION	false	10 min
Items Completed Delivery Total per Minute	ItemsCompletedDeliveryTotal1m	none	UTILIZATION	false	10 min
Items Queued For Delivery Expired Total	ItemsQueuedForDeliveryExpiredTotal	none	UTILIZATION	false	10 min
Items Queued For Delivery Expired Total per Minute	ItemsQueuedForDeliveryExpiredTotal1m	none	UTILIZATION	false	10 min
Items Deleted By Admin Total	ItemsDeletedByAdminTotal	none	UTILIZATION	false	10 min
Items Deleted By Admin Total per Minute	ItemsDeletedByAdminTotal1m	none	UTILIZATION	false	10 min
Items Resubmitted Total	ItemsResubmittedTotal	none	UTILIZATION	false	10 min
Items Resubmitted Total per Minute	ItemsResubmittedTotal1m	none	UTILIZATION	false	10 min

Table 28-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Messages Queued For Delivery Total	MessagesQueue dForDeliveryTotal	none	UTILIZATION	false	10 min
Messages Queued For Delivery Total per Minute	MessagesQueue dForDeliveryTotal1m	none	UTILIZATION	false	10 min
Messages Completed Delivery Total	MessagesCompletedDeliveryTotal	none	UTILIZATION	false	10 min
Messages Completed Delivery Total per Minute	MessagesCompletedDeliveryTotal1m	none	UTILIZATION	true	10 min
Unreachable Queue Length	UnreachableQueueLength	none	UTILIZATION	false	5 min
Poison Queue Length	PoisonQueueLength	none	UTILIZATION	false	5 min
Submission Queue Length	SubmissionQueueLength	none	UTILIZATION	false	5 min
Messages Submitted Total	MessagesSubmittedTotal	none	UTILIZATION	false	10 min
Messages Submitted Total per Minute	MessagesSubmittedTotal1m	none	UTILIZATION	true	10 min
Submission Queue Items Expired Total	SubmissionQueueItemsExpiredTotal	none	UTILIZATION	false	10 min
Submission Queue Items Expired Total per Minute	SubmissionQueueItemsExpiredTotal1m	none	UTILIZATION	false	10 min

Configuration Help

Exchange Transport 2007 Smtplib Service

This topic details the Exchange Transport 2007 Smtplib Service metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 28-15. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
Connections Current	ConnectionsCurrent	none	UTILIZATION	false	5 min
Connections Total	ConnectionsTotal	none	UTILIZATION	false	10 min

Table 28-15. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Connections Total per Minute	ConnectionsTotal1m	none	UTILIZATION	true	10 min
Messages Sent Total	MessagesSentTotal	none	UTILIZATION	false	10 min
Messages Sent Total per Minute	MessagesSentTotal1m	none	UTILIZATION	true	10 min
Message Bytes Sent Total	MessageBytesSentTotal	B	UTILIZATION	false	10 min
Message Bytes Sent Total per Minute	MessageBytesSentTotal1m	B	UTILIZATION	true	10 min
Bytes Sent Total	BytesSentTotal	none	UTILIZATION	false	10 min
Bytes Sent Total per Minute	BytesSentTotal1m	none	UTILIZATION	false	10 min
Recipients Sent	RecipientsSent	none	UTILIZATION	false	10 min
Recipients Sent per Minute	RecipientsSent1m	none	UTILIZATION	false	10 min
Average Recipients/message	AverageRecipients/message	none	UTILIZATION	false	5 min
Average Message bytes/message	AverageMessage bytes/message	B	UTILIZATION	false	5 min
Average Messages/connection	AverageMessages/connection	none	UTILIZATION	false	5 min
Average Bytes/connection	AverageBytes/connection	B	UTILIZATION	false	5 min

Configuration Help

Microsoft Active Directory

This section explains the metrics related to Active Directory.

- [Microsoft Active Directory Server Metrics](#) on page 665
This topic details the metrics for the Active Directory server.
- [Microsoft Active Directory LDAP Service Metrics](#) on page 666
This topic details the metrics for the Active Directory LDAP service.
- [Microsoft Active Directory Authentication Service Metrics](#) on page 667
This topic details the metrics for the Active Directory Authentication service.

Microsoft Active Directory Server Metrics

This topic details the metrics for the Active Directory server.

Log Track Supported: Yes

Config Track Supported: No

Table 29-1. Custom Properties Supported

Name	Description
Root Domain	Root Domain
Machine DN Name	Machine DN Name
DSA Database file	DSA Database file
Schema Version	Schema Version

Supported Control Actions: None

Table 29-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	5 min
DS Threads in Use	DSThreadsinUse	none	UTILIZATION	true	5 min
DS Directory Writes	DSDirectoryWrites	none	THROUGHPUT	false	10 min
DS Directory Writes per minute	DSDirectoryWrites1m	none	THROUGHPUT	false	10 min
DS Directory Reads	DSDirectoryReads	none	THROUGHPUT	false	10 min

Table 29-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
DS Directory Reads per minute	DSDirectoryReads1m	none	THROUGHPUT	false	10 min
DS Directory Searches	DSDirectorySearches	none	THROUGHPUT	false	10 min
DS Directory Searches per Minute	DSDirectorySearches1m	none	THROUGHPUT	true	10 min
DS Client Binds	DSClientBinds	none	THROUGHPUT	false	10 min
DS Client Binds per Minute	DSClientBinds1M	none	THROUGHPUT	true	10 min
DS Server Binds	DSServerBinds	none	THROUGHPUT	false	10 min
DS Server Binds per Minute	DSServerBinds1m	none	THROUGHPUT	false	10 min

Configuration Help

Microsoft Active Directory LDAP Service Metrics

This topic details the metrics for the Active Directory LDAP service.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 29-3. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
LDAP Client Sessions	LDAPClientSessions	none	UTILIZATION	true	5 min
LDAP Active Threads	LDAPActiveThreads	none	UTILIZATION	false	5 min
LDAP Writes	LDAPWrites	none	THROUGHPUT	false	10 min
LDAP Writes per Minute	LDAPWrites1m	none	THROUGHPUT	false	10 min
LDAP Searches	LDAPSearches	none	THROUGHPUT	false	10 min
LDAP Searches per Minute	LDAPSearches1m	none	THROUGHPUT	true	10 min
LDAP Successful Binds	LDAPSuccessfulBinds	none	THROUGHPUT	false	10 min
LDAP Successful Binds per Minute	LDAPSuccessfulBinds1m	none	THROUGHPUT	false	10 min
LDAP New Connections	LDAPNewConnections	none	THROUGHPUT	false	10 min
LDAP New Connections per Minute	LDAPNewConnections1m	none	THROUGHPUT	true	10 min

Table 29-3. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
LDAP New SSL Connections	LDAPNewSSLC onnections	none	THROUGHPUT	false	10 min
LDAP New SSL Connections per Minute	LDAPNewSSLC onnections1m	none	THROUGHPUT	false	10 min
LDAP Closed Connections	LDAPClosedCon nections	none	THROUGHPUT	false	10 min
LDAP Closed Connections per Minute	LDAPClosedCon nections1m	none	THROUGHPUT	false	10 min
LDAP UDP operations	LDAPUDPopera tions	none	THROUGHPUT	false	10 min
LDAP UDP operations per Minute	LDAPUDPopera tions1m	none	THROUGHPUT	false	10 min

Configuration Help

Microsoft Active Directory Authentication Service Metrics

This topic details the metrics for the Active Directory Authentication service.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 29-4. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percentage	AVAILABILITY	true	10 min
KDC AS Requests	KDCASRequests	none	THROUGHPUT	false	10 min
KDC AS Requests per Minute	KDCASRequests 1m	none	THROUGHPUT	false	10 min
KDC TGS Requests	KDCTGSRequest s	none	THROUGHPUT	false	10 min
KDC TGS Requests per Minute	KDCTGSRequest s1m	none	THROUGHPUT	true	10 min
Kerberos Authentications	KerberosAuthent ications	none	THROUGHPUT	false	10 min
Kerberos Authentications per Minute	KerberosAuthent ications1m	none	THROUGHPUT	true	10 min
NTLM Authentications	NTLMAuthentic ations	none	THROUGHPUT	false	10 min
NTLM Authentications per Minute	NTLMAuthentic ations1m	none	THROUGHPUT	true	10 min

Configuration Help

Microsoft IIS

vCenter Hyperic's IIS plugin manages Microsoft Internet Information Server (IIS).

Supported Versions and Requirements

The IIS plugin supports the following versions of IIS:

- IIS 8.x
- IIS 7.x
- IIS 6.x
- IIS 5.x
- IIS 4.x

IIS Resources and the Hyperic Inventory Model

IIS resources are server types. The IIS VHost resources are service types.

- [Configure vCenter Hyperic to Manage IIS](#) on page 670
This topic provides instructions for configuring vCenter Hyperic to manage IIS.
- [Resource Types and Management Functions](#) on page 670
This topic describes the management functions the IIS plugin performs for IIS components.
- [Microsoft IIS 8.x Server Metrics](#) on page 671
This topic provides information about Microsoft IIS 8.x server metrics.
- [Microsoft IIS 7.x Server Metrics](#) on page 682
This topic provides information about Microsoft IIS 7.x server metrics.
- [Microsoft IIS 6.x Server Metrics](#) on page 694
This topic provides information about Microsoft IIS 6.x server metrics.
- [Microsoft IIS 5.x Server Metrics](#) on page 705
This topic provides information about Microsoft IIS 5.x server metrics.
- [Microsoft IIS 4.x Server Metrics](#) on page 716
This topic provides information about Microsoft IIS 4.x server metrics.

Configure vCenter Hyperic to Manage IIS

This topic provides instructions for configuring vCenter Hyperic to manage IIS.

Procedure

- 1 Install the vCenter Hyperic agent on the IIS host.
- 2 Import the IIS server.

After you start the vCenter Hyperic agent, it should discover the IIS server. The server should appear in the Auto-Discovery portlet on the dashboard. Import the server.

- 3 Configure the IIS server in vCenter Hyperic.
 - a Navigate to the Configuration Properties page for the IIS server instance.
 - b To enable log tracking, select the **server.log_track.enable** checkbox. Log tracking is disabled by default.

For information about how to enable configuration tracking and how to specify which files to track, see *Set Up Log Tracking for a Resource in vCenter Hyperic Administration*.

- 4 Configure IIS vHost Services in vCenter Hyperic.
- 5 Verify Metric collection.

Resource Types and Management Functions

This topic describes the management functions the IIS plugin performs for IIS components.

- [Working with IIS Auto-discovery Classes](#) on page 670
This topic provides information the auto-discovery class used by IIS.
- [Working with IIS Measurement Classes](#) on page 670
This topic provides information about the measurement class used by IIS.
- [Working with IIS Control Classes](#) on page 671
This topic provides information about the control class used by IIS.
- [Working with IIS Log Tracking](#) on page 671
This topic provides information about the log tracking class used by IIS.

Working with IIS Auto-discovery Classes

This topic provides information the auto-discovery class used by IIS.

The IIS plugin uses the `IisDetector` auto-discovery class.

To discover an IIS instance, the plugin searches the Windows Registry for the `W3SVC` service name.

Working with IIS Measurement Classes

This topic provides information about the measurement class used by IIS.

The IIS plugin uses the `IISMeasurementPlugin` measurement class.

vHost metrics are obtained from log files in the `Windows\system32\Logfiles\<service_name>` directory in accordance with the user-configured options specified on the Configuration Options page for the vHost instance.

Working with IIS Control Classes

This topic provides information about the control class used by IIS.

The IIS plugin uses the `org.hyperic.hq.product.Win32ControlPlugin` control class.

The following control actions are available for IIS servers:

- Stop
- Start
- Restart

Working with IIS Log Tracking

This topic provides information about the log tracking class used by IIS.

The IIS plugin uses its own log tracking class, `IisLogTrackPlugin`, which extends the `org.hyperic.hq.product.in32EventLogTrackPlugin`, to perform log tracking for IIS servers.

Log tracking for IIS servers is disabled by default. When log tracking for IIS servers is enabled, the plugin tracks events ASP events for IIS, in accordance with user-configured log tracking option, such as log event level, and include/exclude criteria.

Microsoft IIS 8.x Server Metrics

This topic provides information about Microsoft IIS 8.x server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 30-1. Custom Properties Supported:

Name	Description
version	IIS version

Supported Control Actions: start,stop,restart

Table 30-2. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1m	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsReqs	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReqs1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkcol Requests	TotalMkcolReqs	none	THROUGHPUT	false	10 min
Total Mkcol Requests per Minute	TotalMkcolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min
Total Connection Attempts (all instances)	TotConnAtmptsAll	none	UTILIZATION	false	10 min
Total Connection Attempts (all instances) per Minute	TotConnAtmptsAll1m	none	UTILIZATION	false	10 min
Service Uptime	ServiceUptime	sec	AVAILABILITY	false	5 min
Debugging Requests	DebugReqs	none	UTILIZATION	false	10 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Debugging Requests per Minute	DebugReqs1m	none	UTILIZATION	false	10 min
Errors During Script Runtime	ErrsInScriptRuntime	none	THROUGHPUT	false	10 min
Errors During Script Runtime per Minute	ErrsInScriptRuntime1m	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor	ErrsFromASPPreproc	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor per Minute	ErrsFromASPPreproc1m	none	THROUGHPUT	false	10 min
Errors From Script Compilers	ErrsFromScriptCompilers	none	THROUGHPUT	false	10 min
Errors From Script Compilers per Minute	ErrsFromScriptCompilers1m	none	THROUGHPUT	false	10 min
Request Bytes In Total	ReqBytesInTotal	B	UTILIZATION	false	10 min
Request Bytes In Total per Minute	ReqBytesInTotal1m	B	UTILIZATION	false	10 min
Request Bytes Out Total	ReqBytesOutTotal	B	UTILIZATION	false	10 min
Request Bytes Out Total per Minute	ReqBytesOutTotal1m	B	UTILIZATION	false	10 min
Request Execution Time	ReqExecTime	sec	PERFORMANCE	false	5 min
Request Wait Time	ReqWaitTime	sec	PERFORMANCE	false	5 min
Requests Disconnected	ReqsDisconnected	none	THROUGHPUT	false	5 min
Requests Executing	ReqsExecuting	none	UTILIZATION	false	5 min
Requests Failed Total	ReqsFailedTotal	none	UTILIZATION	false	10 min
Requests Failed Total per Minute	ReqsFailedTotal1m	none	UTILIZATION	false	10 min
Requests Not Authorized	ReqsNotAuthorized	none	UTILIZATION	false	10 min
Requests Not Authorized per Minute	ReqsNotAuthorized1m	none	UTILIZATION	false	10 min
Requests Not Found	ReqsNotFound	none	UTILIZATION	false	10 min
Requests Not Found per Minute	ReqsNotFound1m	none	UTILIZATION	false	10 min
Requests Queued	ReqsQueued	none	UTILIZATION	false	10 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests Queued per Minute	ReqsQueued1m	none	UTILIZATION	false	10 min
Requests Rejected	ReqsRejected	none	UTILIZATION	false	10 min
Requests Rejected per Minute	ReqsRejected1m	none	UTILIZATION	false	10 min
Requests Succeeded	ReqsSucceeded	none	UTILIZATION	false	10 min
Requests Succeeded per Minute	ReqsSucceeded1m	none	UTILIZATION	false	10 min
Requests Timed Out	ReqsTimedOut	none	UTILIZATION	false	10 min
Requests Timed Out per Minute	ReqsTimedOut1m	none	UTILIZATION	false	10 min
Requests Total	ReqsTotal	none	UTILIZATION	false	10 min
Requests Total per Minute	ReqsTotal1m	none	UTILIZATION	false	10 min
Script Engines Cached	ScriptEngsCached	none	THROUGHPUT	false	5 min
Session Duration	SessionDuration	sec	THROUGHPUT	false	5 min
Sessions Current	SessionsCurrent	none	UTILIZATION	false	5 min
Sessions Timed Out	SessionsTimedOut	none	UTILIZATION	false	5 min
Sessions Total	SessionsTotal	none	UTILIZATION	false	5 min
Templates Cached	TemplatesCached	none	THROUGHPUT	false	5 min
Template Cache Hit Rate	TmplCacheHitRate	none	THROUGHPUT	false	5 min
Template Notifications	TmplNotifications	none	UTILIZATION	false	5 min
Transactions Aborted	TransAborted	none	UTILIZATION	false	5 min
Transactions Committed	TransCommitted	none	UTILIZATION	false	5 min
Transactions Pending	TransPending	none	UTILIZATION	false	5 min
Transactions Total	TransTotal	none	UTILIZATION	false	10 min
Transactions Total per Minute	TransTotal1m	none	UTILIZATION	false	10 min
In Memory Templates Cached	InMemoryTmpltsCached	none	UTILIZATION	false	5 min
In Memory Template Cache Hit Rate	InMemTmplCacheHitRate	none	UTILIZATION	false	5 min

Table 30-2. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Script Engine Cache Hit Rate	ScriptEngCacheHitRate	none	UTILIZATION	false	5 min
Engine Flush Notifications	EngFlushNotifications	none	UTILIZATION	false	5 min

Configuration help:

Microsoft IIS 8.x VHost Service Metrics

This topic provides information about Microsoft IIS 8.x VHost service metrics.

Log Track Supported: No

Config Track Supported: No

Table 30-3. Custom Properties Supported

Name	Description
docRoot	Document Root

Supported Control Actions: None

Table 30-4. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min

Table 30-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1mnone	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min

Table 30-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min

Table 30-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsynccReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsynccReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsynccReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsRequests	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReqs1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min

Table 30-4. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkol Requests	TotalMkolReqs	none	THROUGHPUT	false	10 min
Total Mkol Requests per Minute	TotalMkolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min

Configuration help:**Microsoft IIS 7.x Server Metrics**

This topic provides information about Microsoft IIS 7.x server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 30-5. Custom Properties Supported:

Name	Description
version	IIS version

Supported Control Actions: start,stop,restart

Table 30-6. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1m	none	THROUGHPUT	false	10 min

Table 30-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min

Table 30-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqscReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReqscReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReqscReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthedusers	none	THROUGHPUT	false	5 min

Table 30-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsReqs	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReqs1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkcol Requests	TotalMkcolReqs	none	THROUGHPUT	false	10 min
Total Mkcol Requests per Minute	TotalMkcolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min

Table 30-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min
Total Connection Attempts (all instances)	TotConnAtmptsAll	none	UTILIZATION	false	10 min
Total Connection Attempts (all instances) per Minute	TotConnAtmptsAll1m	none	UTILIZATION	false	10 min
Service Uptime	ServiceUptime	sec	AVAILABILITY	false	5 min
Debugging Requests	DebugReqs	none	UTILIZATION	false	10 min
Debugging Requests per Minute	DebugReqs1m	none	UTILIZATION	false	10 min
Errors During Script Runtime	ErrsInScriptRuntime	none	THROUGHPUT	false	10 min
Errors During Script Runtime per Minute	ErrsInScriptRuntime1m	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor	ErrsFromASPPreproc	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor per Minute	ErrsFromASPPreproc1m	none	THROUGHPUT	false	10 min
Errors From Script Compilers	ErrsFromScriptCompilers	none	THROUGHPUT	false	10 min
Errors From Script Compilers per Minute	ErrsFromScriptCompilers1m	none	THROUGHPUT	false	10 min
Request Bytes In Total	ReqBytesInTotal	B	UTILIZATION	false	10 min
Request Bytes In Total per Minute	ReqBytesInTotal1m	B	UTILIZATION	false	10 min
Request Bytes Out Total	ReqBytesOutTotal	B	UTILIZATION	false	10 min
Request Bytes Out Total per Minute	ReqBytesOutTotal1m	B	UTILIZATION	false	10 min
Request Execution Time	ReqExecTime	sec	PERFORMANCE	false	5 min
Request Wait Time	ReqWaitTime	sec	PERFORMANCE	false	5 min
Requests Disconnected	ReqsDisconnected	none	THROUGHPUT	false	5 min
Requests Executing	ReqsExecuting	none	UTILIZATION	false	5 min

Table 30-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests Failed Total	ReqsFailedTotal	none	UTILIZATION	false	10 min
Requests Failed Total per Minute	ReqsFailedTotal1m	none	UTILIZATION	false	10 min
Requests Not Authorized	ReqsNotAuthorized	none	UTILIZATION	false	10 min
Requests Not Authorized per Minute	ReqsNotAuthorized1m	none	UTILIZATION	false	10 min
Requests Not Found	ReqsNotFound	none	UTILIZATION	false	10 min
Requests Not Found per Minute	ReqsNotFound1m	none	UTILIZATION	false	10 min
Requests Queued	ReqsQueued	none	UTILIZATION	false	10 min
Requests Queued per Minute	ReqsQueued1m	none	UTILIZATION	false	10 min
Requests Rejected	ReqsRejected	none	UTILIZATION	false	10 min
Requests Rejected per Minute	ReqsRejected1m	none	UTILIZATION	false	10 min
Requests Succeeded	ReqsSucceeded	none	UTILIZATION	false	10 min
Requests Succeeded per Minute	ReqsSucceeded1m	none	UTILIZATION	false	10 min
Requests Timed Out	ReqsTimedOut	none	UTILIZATION	false	10 min
Requests Timed Out per Minute	ReqsTimedOut1m	none	UTILIZATION	false	10 min
Requests Total	ReqsTotal	none	UTILIZATION	false	10 min
Requests Total per Minute	ReqsTotal1m	none	UTILIZATION	false	10 min
Script Engines Cached	ScriptEngsCached	none	THROUGHPUT	false	5 min
Session Duration	SessionDuration	sec	THROUGHPUT	false	5 min
Sessions Current	SessionsCurrent	none	UTILIZATION	false	5 min
Sessions Timed Out	SessionsTimedOut	none	UTILIZATION	false	5 min
Sessions Total	SessionsTotal	none	UTILIZATION	false	5 min
Templates Cached	TemplatesCached	none	THROUGHPUT	false	5 min
Template Cache Hit Rate	TmplCacheHitRate	none	THROUGHPUT	false	5 min
Template Notifications	TmplNotifications	none	UTILIZATION	false	5 min
Transactions Aborted	TransAborted	none	UTILIZATION	false	5 min

Table 30-6. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Transactions Committed	TransCommitted	none	UTILIZATION	false	5 min
Transactions Pending	TransPending	none	UTILIZATION	false	5 min
Transactions Total	TransTotal	none	UTILIZATION	false	10 min
Transactions Total per Minute	TransTotal1m	none	UTILIZATION	false	10 min
In Memory Templates Cached	InMemoryTpltsCached	none	UTILIZATION	false	5 min
In Memory Template Cache Hit Rate	InMemTpltCacheHitRate	none	UTILIZATION	false	5 min
Script Engine Cache Hit Rate	ScriptEngCacheHitRate	none	UTILIZATION	false	5 min
Engine Flush Notifications	EngFlushNotifications	none	UTILIZATION	false	5 min

Configuration help:

Microsoft IIS 7.x VHost Service Metrics

This topic provides information about Microsoft IIS 7.x VHost service metrics.

Log Track Supported: No

Config Track Supported: No

Table 30-7. Custom Properties Supported

Name	Description
docRoot	Document Root

Supported Control Actions: None

Table 30-8. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min

Table 30-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1mnone	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min

Table 30-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min

Table 30-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsReqs	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReqs1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min

Table 30-8. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkcol Requests	TotalMkcolReqs	none	THROUGHPUT	false	10 min
Total Mkcol Requests per Minute	TotalMkcolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min

Configuration help:

Microsoft IIS 6.x Server Metrics

This topic provides information about Microsoft IIS 6.x server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 30-9. Custom Properties Supported:

Name	Description
version	IIS version

Supported Control Actions: start,stop,restart

Table 30-10. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min

Table 30-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1m	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min

Table 30-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBkcdAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBkcdAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqs	none	UTILIZATION	false	10 min

Table 30-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReq1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReq1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReq	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsReqs	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReq1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReq1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min
Total Proppatch Requests per Minute	TotProppatchReq1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReq1m	none	THROUGHPUT	false	10 min
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReq1m	none	THROUGHPUT	false	10 min

Table 30-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkol Requests	TotalMkolReqs	none	THROUGHPUT	false	10 min
Total Mkol Requests per Minute	TotalMkolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min
Total Connection Attempts (all instances)	TotConnAtmptsAll	none	UTILIZATION	false	10 min
Total Connection Attempts (all instances) per Minute	TotConnAtmptsAll1m	none	UTILIZATION	false	10 min
Service Uptime	ServiceUptime	sec	AVAILABILITY	false	5 min
Debugging Requests	DebugReqs	none	UTILIZATION	false	10 min
Debugging Requests per Minute	DebugReqs1m	none	UTILIZATION	false	10 min
Errors During Script Runtime	ErrsInScriptRuntime	none	THROUGHPUT	false	10 min
Errors During Script Runtime per Minute	ErrsInScriptRuntime1m	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor	ErrsFromASPPreproc	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor per Minute	ErrsFromASPPreproc1m	none	THROUGHPUT	false	10 min

Table 30-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Errors From Script Compilers	ErrsFromScriptCompilers	none	THROUGHPUT	false	10 min
Errors From Script Compilers per Minute	ErrsFromScriptCompilers1m	none	THROUGHPUT	false	10 min
Request Bytes In Total	ReqBytesInTotal	B	UTILIZATION	false	10 min
Request Bytes In Total per Minute	ReqBytesInTotal1m	B	UTILIZATION	false	10 min
Request Bytes Out Total	ReqBytesOutTotal	B	UTILIZATION	false	10 min
Request Bytes Out Total per Minute	ReqBytesOutTotal1m	B	UTILIZATION	false	10 min
Request Execution Time	ReqExecTime	sec	PERFORMANCE	false	5 min
Request Wait Time	ReqWaitTime	sec	PERFORMANCE	false	5 min
Requests Disconnected	ReqsDisconnected	none	THROUGHPUT	false	5 min
Requests Executing	ReqsExecuting	none	UTILIZATION	false	5 min
Requests Failed Total	ReqsFailedTotal	none	UTILIZATION	false	10 min
Requests Failed Total per Minute	ReqsFailedTotal1m	none	UTILIZATION	false	10 min
Requests Not Authorized	ReqsNotAuthorized	none	UTILIZATION	false	10 min
Requests Not Authorized per Minute	ReqsNotAuthorized1m	none	UTILIZATION	false	10 min
Requests Not Found	ReqsNotFound	none	UTILIZATION	false	10 min
Requests Not Found per Minute	ReqsNotFound1m	none	UTILIZATION	false	10 min
Requests Queued	ReqsQueued	none	UTILIZATION	false	10 min
Requests Queued per Minute	ReqsQueued1m	none	UTILIZATION	false	10 min
Requests Rejected	ReqsRejected	none	UTILIZATION	false	10 min
Requests Rejected per Minute	ReqsRejected1m	none	UTILIZATION	false	10 min
Requests Succeeded	ReqsSucceeded	none	UTILIZATION	false	10 min
Requests Succeeded per Minute	ReqsSucceeded1m	none	UTILIZATION	false	10 min
Requests Timed Out	ReqsTimedOut	none	UTILIZATION	false	10 min

Table 30-10. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests Timed Out per Minute	ReqsTimedOut1m	none	UTILIZATION	false	10 min
Requests Total	ReqsTotal	none	UTILIZATION	false	10 min
Requests Total per Minute	ReqsTotal1m	none	UTILIZATION	false	10 min
Script Engines Cached	ScriptEngsCached	none	THROUGHPUT	false	5 min
Session Duration	SessionDuration	sec	THROUGHPUT	false	5 min
Sessions Current	SessionsCurrent	none	UTILIZATION	false	5 min
Sessions Timed Out	SessionsTimedOut	none	UTILIZATION	false	5 min
Sessions Total	SessionsTotal	none	UTILIZATION	false	5 min
Templates Cached	TemplatesCached	none	THROUGHPUT	false	5 min
Template Cache Hit Rate	TmplCacheHitRate	none	THROUGHPUT	false	5 min
Template Notifications	TmplNotifications	none	UTILIZATION	false	5 min
Transactions Aborted	TransAborted	none	UTILIZATION	false	5 min
Transactions Committed	TransCommitted	none	UTILIZATION	false	5 min
Transactions Pending	TransPending	none	UTILIZATION	false	5 min
Transactions Total	TransTotal	none	UTILIZATION	false	10 min
Transactions Total per Minute	TransTotal1m	none	UTILIZATION	false	10 min
In Memory Templates Cached	InMemoryTmpltsCached	none	UTILIZATION	false	5 min
In Memory Template Cache Hit Rate	InMemTmplCacheHitRate	none	UTILIZATION	false	5 min
Script Engine Cache Hit Rate	ScriptEngCacheHitRate	none	UTILIZATION	false	5 min
Engine Flush Notifications	EngFlushNotifications	none	UTILIZATION	false	5 min

Configuration help:

Microsoft IIS 6.x VHost Service Metrics

This topic provides information about Microsoft IIS 6.x VHost service metrics.

Log Track Supported: No

Config Track Supported: No

Table 30-11. Custom Properties Supported

Name	Description
docRoot	Document Root

Supported Control Actions: None

Table 30-12. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min

Table 30-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1mnone	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min

Table 30-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqscReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReqscReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReqscReqs	none	UTILIZATION	false	5 min

Table 30-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsRequests	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsRequests1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkcol Requests	TotalMkcolReqs	none	THROUGHPUT	false	10 min
Total Mkcol Requests per Minute	TotalMkcolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min

Table 30-12. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min

Configuration help:**Microsoft IIS 5.x Server Metrics**

This topic provides information about Microsoft IIS 5.x server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 30-13. Custom Properties Supported:

Name	Description
version	IIS version

Supported Control Actions: start,stop,restart

Table 30-14. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1mnone	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReq	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReq1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReq	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsReqs	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReqs1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkcol Requests	TotalMkcolReqs	none	THROUGHPUT	false	10 min
Total Mkcol Requests per Minute	TotalMkcolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min
Total Connection Attempts (all instances)	TotConnAtmptsAll	none	UTILIZATION	false	10 min
Total Connection Attempts (all instances) per Minute	TotConnAtmptsAll1m	none	UTILIZATION	false	10 min
Service Uptime	ServiceUptime	sec	AVAILABILITY	false	5 min
Debugging Requests	DebugReqs	none	UTILIZATION	false	10 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Debugging Requests per Minute	DebugReqs1m	none	UTILIZATION	false	10 min
Errors During Script Runtime	ErrsInScriptRuntime	none	THROUGHPUT	false	10 min
Errors During Script Runtime per Minute	ErrsInScriptRuntime1m	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor	ErrsFromASPPreproc	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor per Minute	ErrsFromASPPreproc1m	none	THROUGHPUT	false	10 min
Errors From Script Compilers	ErrsFromScriptCompilers	none	THROUGHPUT	false	10 min
Errors From Script Compilers per Minute	ErrsFromScriptCompilers1m	none	THROUGHPUT	false	10 min
Request Bytes In Total	ReqBytesInTotal	B	UTILIZATION	false	10 min
Request Bytes In Total per Minute	ReqBytesInTotal1m	B	UTILIZATION	false	10 min
Request Bytes Out Total	ReqBytesOutTotal	B	UTILIZATION	false	10 min
Request Bytes Out Total per Minute	ReqBytesOutTotal1m	B	UTILIZATION	false	10 min
Request Execution Time	ReqExecTime	sec	PERFORMANCE	false	5 min
Request Wait Time	ReqWaitTime	sec	PERFORMANCE	false	5 min
Requests Disconnected	ReqsDisconnected	none	THROUGHPUT	false	5 min
Requests Executing	ReqsExecuting	none	UTILIZATION	false	5 min
Requests Failed Total	ReqsFailedTotal	none	UTILIZATION	false	10 min
Requests Failed Total per Minute	ReqsFailedTotal1m	none	UTILIZATION	false	10 min
Requests Not Authorized	ReqsNotAuthorized	none	UTILIZATION	false	10 min
Requests Not Authorized per Minute	ReqsNotAuthorized1m	none	UTILIZATION	false	10 min
Requests Not Found	ReqsNotFound	none	UTILIZATION	false	10 min
Requests Not Found per Minute	ReqsNotFound1m	none	UTILIZATION	false	10 min
Requests Queued	ReqsQueued	none	UTILIZATION	false	10 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests Queued per Minute	ReqsQueued1m	none	UTILIZATION	false	10 min
Requests Rejected	ReqsRejected	none	UTILIZATION	false	10 min
Requests Rejected per Minute	ReqsRejected1m	none	UTILIZATION	false	10 min
Requests Succeeded	ReqsSucceeded	none	UTILIZATION	false	10 min
Requests Succeeded per Minute	ReqsSucceeded1m	none	UTILIZATION	false	10 min
Requests Timed Out	ReqsTimedOut	none	UTILIZATION	false	10 min
Requests Timed Out per Minute	ReqsTimedOut1m	none	UTILIZATION	false	10 min
Requests Total	ReqsTotal	none	UTILIZATION	false	10 min
Requests Total per Minute	ReqsTotal1m	none	UTILIZATION	false	10 min
Script Engines Cached	ScriptEngsCached	none	THROUGHPUT	false	5 min
Session Duration	SessionDuration	sec	THROUGHPUT	false	5 min
Sessions Current	SessionsCurrent	none	UTILIZATION	false	5 min
Sessions Timed Out	SessionsTimedOut	none	UTILIZATION	false	5 min
Sessions Total	SessionsTotal	none	UTILIZATION	false	5 min
Templates Cached	TemplatesCached	none	THROUGHPUT	false	5 min
Template Cache Hit Rate	TmplCacheHitRate	none	THROUGHPUT	false	5 min
Template Notifications	TmplNotifications	none	UTILIZATION	false	5 min
Transactions Aborted	TransAborted	none	UTILIZATION	false	5 min
Transactions Committed	TransCommitted	none	UTILIZATION	false	5 min
Transactions Pending	TransPending	none	UTILIZATION	false	5 min
Transactions Total	TransTotal	none	UTILIZATION	false	10 min
Transactions Total per Minute	TransTotal1m	none	UTILIZATION	false	10 min
In Memory Templates Cached	InMemoryTmpltsCached	none	UTILIZATION	false	5 min
In Memory Template Cache Hit Rate	InMemTmplCacheHitRate	none	UTILIZATION	false	5 min

Table 30-14. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Script Engine Cache Hit Rate	ScriptEngCacheHitRate	none	UTILIZATION	false	5 min
Engine Flush Notifications	EngFlushNotifications	none	UTILIZATION	false	5 min

Configuration help:

IIS 5.x VHost Service Metrics

This topic provides information about Microsoft IIS 5.x VHost service metrics.

Log Track Supported: No

Config Track Supported: No

Table 30-15. Custom Properties Supported

Name	Description
docRoot	Document Root

Supported Control Actions: None

Table 30-16. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min

Table 30-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1mnone	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min

Table 30-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min

Table 30-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsynccReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsynccReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsynccReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Current CAL count for authenticated users	CurrCALauthed users	none	THROUGHPUT	false	5 min
Maximum CAL count for authenticated users	MaxCALauthed users	none	THROUGHPUT	false	5 min
Total Options Requests	TotalOptionsRequests	none	THROUGHPUT	false	10 min
Total Options Requests per Minute	TotalOptionsReqs1m	none	THROUGHPUT	false	10 min
Total Propfind Requests	TotPropfindReqs	none	THROUGHPUT	false	10 min
Total Propfind Requests per Minute	TotPropfindReqs1m	none	THROUGHPUT	false	10 min
Total Proppatch Requests	TotProppatchReqs	none	THROUGHPUT	false	10 min
Total Proppatch Requests per Minute	TotProppatchReqs1m	none	THROUGHPUT	false	10 min
Total Search Requests	TotSearchReqs	none	THROUGHPUT	false	10 min
Total Search Requests per Minute	TotSearchReqs1m	none	THROUGHPUT	false	10 min

Table 30-16. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Unlock Requests	TotUnlockReqs	none	THROUGHPUT	false	10 min
Total Unlock Requests per Minute	TotUnlockReqs1m	none	THROUGHPUT	false	10 min
Current CAL count for SSL connections	CurrCALSSLconnections	none	UTILIZATION	false	5 min
Maximum CAL count for SSL connections	MaxCALSSLconnections	none	UTILIZATION	false	5 min
Total Mkol Requests	TotalMkolReqs	none	THROUGHPUT	false	10 min
Total Mkol Requests per Minute	TotalMkolReqs1m	none	THROUGHPUT	false	10 min
Total Move Requests	TotMoveReqs	none	THROUGHPUT	false	10 min
Total Move Requests per Minute	TotMoveReqs1m	none	THROUGHPUT	false	10 min
Total Copy Requests	TotCopyReqs	none	THROUGHPUT	false	10 min
Total Copy Requests per Minute	TotCopyReqs1m	none	THROUGHPUT	false	10 min
Total Lock Requests	TotalLockReqs	none	THROUGHPUT	false	10 min
Total Lock Requests per Minute	TotalLockReqs1m	none	THROUGHPUT	false	10 min

Configuration help:**Microsoft IIS 4.x Server Metrics**

This topic provides information about Microsoft IIS 4.x server metrics.

Log Track Supported: Yes

Config Track Supported: No

Table 30-17. Custom Properties Supported:

Name	Description
version	IIS version

Supported Control Actions: start,stop,restart

Table 30-18. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	5 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1m	none	THROUGHPUT	false	10 min

Table 30-18. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min

Table 30-18. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqscReqs	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests per Minute	TotAllowedAsyncReqscReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncReqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncReqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyncReqscReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsyncBandwidth	none	UTILIZATION	false	5 min
Debugging Requests	DebugReqs	none	UTILIZATION	false	10 min
Debugging Requests per Minute	DebugReqs1m	none	UTILIZATION	false	10 min

Table 30-18. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Errors During Script Runtime	ErrsInScriptRuntime	none	THROUGHPUT	false	10 min
Errors During Script Runtime per Minute	ErrsInScriptRuntime1m	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor	ErrsFromASPPreproc	none	THROUGHPUT	false	10 min
Errors From ASP Preprocessor per Minute	ErrsFromASPPreproc1m	none	THROUGHPUT	false	10 min
Errors From Script Compilers	ErrsFromScriptCompilers	none	THROUGHPUT	false	10 min
Errors From Script Compilers per Minute	ErrsFromScriptCompilers1m	none	THROUGHPUT	false	10 min
Request Bytes In Total	ReqBytesInTotal	B	UTILIZATION	false	10 min
Request Bytes In Total per Minute	ReqBytesInTotal1m	B	UTILIZATION	false	10 min
Request Bytes Out Total	ReqBytesOutTotal	B	UTILIZATION	false	10 min
Request Bytes Out Total per Minute	ReqBytesOutTotal1m	B	UTILIZATION	false	10 min
Request Execution Time	ReqExecTime	sec	PERFORMANCE	false	5 min
Request Wait Time	ReqWaitTime	sec	PERFORMANCE	false	5 min
Requests Disconnected	ReqsDisconnected	none	THROUGHPUT	false	5 min
Requests Executing	ReqsExecuting	none	UTILIZATION	false	5 min
Requests Failed Total	ReqsFailedTotal	none	UTILIZATION	false	10 min
Requests Failed Total per Minute	ReqsFailedTotal1m	none	UTILIZATION	false	10 min
Requests Not Authorized	ReqsNotAuthorized	none	UTILIZATION	false	10 min
Requests Not Authorized per Minute	ReqsNotAuthorized1m	none	UTILIZATION	false	10 min
Requests Not Found	ReqsNotFound	none	UTILIZATION	false	10 min
Requests Not Found per Minute	ReqsNotFound1m	none	UTILIZATION	false	10 min
Requests Queued	ReqsQueued	none	UTILIZATION	false	10 min
Requests Queued per Minute	ReqsQueued1m	none	UTILIZATION	false	10 min
Requests Rejected	ReqsRejected	none	UTILIZATION	false	10 min

Table 30-18. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Requests Rejected per Minute	ReqsRejected1m	none	UTILIZATION	false	10 min
Requests Succeeded	ReqsSucceeded	none	UTILIZATION	false	10 min
Requests Succeeded per Minute	ReqsSucceeded1m	none	UTILIZATION	false	10 min
Requests Timed Out	ReqsTimedOut	none	UTILIZATION	false	10 min
Requests Timed Out per Minute	ReqsTimedOut1m	none	UTILIZATION	false	10 min
Requests Total	ReqsTotal	none	UTILIZATION	false	10 min
Requests Total per Minute	ReqsTotal1m	none	UTILIZATION	false	10 min
Script Engines Cached	ScriptEngsCached	none	THROUGHPUT	false	5 min
Session Duration	SessionDuration	sec	THROUGHPUT	false	5 min
Sessions Current	SessionsCurrent	none	UTILIZATION	false	5 min
Sessions Timed Out	SessionsTimedOut	none	UTILIZATION	false	5 min
Sessions Total	SessionsTotal	none	UTILIZATION	false	5 min
Templates Cached	TemplatesCached	none	THROUGHPUT	false	5 min
Template Cache Hit Rate	TmplCacheHitRate	none	THROUGHPUT	false	5 min
Template Notifications	TmplNotifications	none	UTILIZATION	false	5 min
Transactions Aborted	TransAborted	none	UTILIZATION	false	5 min
Transactions Committed	TransCommitted	none	UTILIZATION	false	5 min
Transactions Pending	TransPending	none	UTILIZATION	false	5 min
Transactions Total	TransTotal	none	UTILIZATION	false	10 min
Transactions Total per Minute	TransTotal1m	none	UTILIZATION	false	10 min
In Memory Templates Cached	InMemoryTmpltsCached	none	UTILIZATION	false	5 min
In Memory Template Cache Hit Rate	InMemTmplCacheHitRate	none	UTILIZATION	false	5 min
Script Engine Cache Hit Rate	ScriptEngCacheHitRate	none	UTILIZATION	false	5 min
Engine Flush Notifications	EngFlushNotifications	none	UTILIZATION	false	5 min

Configuration help:

Microsoft IIS 4.x VHost Service Metrics

This topic provides information about Microsoft IIS 4.x VHost service metrics.

Log Track Supported: No

Config Track Supported: No

Table 30-19. Custom Properties Supported

Name	Description
docRoot	Document Root

Supported Control Actions: None

Table 30-20. Supported Metrics

Name	Alias	Units	Category	Default On	Default Interval
Availability	Availability	percent	AVAILABILITY	true	10 min
Bytes Sent	BytesSent	B	THROUGHPUT	false	10 min
Bytes Sent per Minute	BytesSent1M	B	THROUGHPUT	true	10 min
Bytes Received	BytesReceived	B	THROUGHPUT	false	10 min
Bytes Received per Minute	BytesReceived1M	B	THROUGHPUT	true	10 min
Total Files Sent	TotalFilesSent	none	THROUGHPUT	false	10 min
Total Files Sent per Minute	TotalFilesSent1M	none	THROUGHPUT	false	10 min
Total Files Received	TotalFilesReceived	none	THROUGHPUT	false	10 min
Total Files Received per Minute	TotalFilesReceived1M	none	THROUGHPUT	false	10 min
Total Files Transferred	TotalFilesTransferred	none	THROUGHPUT	false	10 min
Total Files Transferred per Minute	TotalFilesTransferred1m	none	THROUGHPUT	false	10 min
Current Anonymous Users	CurrAnonUsers	none	THROUGHPUT	false	5 min
Current NonAnonymous Users	CurrNonAnonUsers	none	THROUGHPUT	false	5 min
Total Anonymous Users	TotAnonUsers	none	THROUGHPUT	false	10 min
Total Anonymous Users per Minute	TotAnonUsers1m	none	THROUGHPUT	false	10 min
Total NonAnonymous Users	TotNonAnonUsers	none	THROUGHPUT	false	10 min

Table 30-20. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total NonAnonymous Users per Minute	TotNonAnonUsers1m	none	THROUGHPUT	false	10 min
Maximum Anonymous Users	MaxAnonUsers	none	THROUGHPUT	false	5 min
Maximum NonAnonymous Users	MaxNonAnonUsers	none	THROUGHPUT	false	5 min
Current Connections	CurrConns	none	UTILIZATION	true	5 min
Maximum Connections	MaxConns	none	UTILIZATION	false	5 min
Total Logon Attempts	TotLogonAttempts	none	THROUGHPUT	false	10 min
Total Logon Attempts per Minute	TotLogonAttempts1m	none	THROUGHPUT	false	10 min
Total Get Requests	TotalGetReqs	none	THROUGHPUT	false	10 min
Total Get Requests per Minute	TotalGetReqs1m	none	THROUGHPUT	true	10 min
Total Post Requests	TotPostReqs	none	THROUGHPUT	false	10 min
Total Post Requests per Minute	TotPostReqs1m	none	THROUGHPUT	false	10 min
Total Head Requests	TotHeadReqs	none	THROUGHPUT	false	10 min
Total Head Requests per Minute	TotHeadReqs1m	none	THROUGHPUT	false	10 min
Total Put Requests	TotPutReqs	none	THROUGHPUT	false	10 min
Total Put Requests per Minute	TotPutReqs1m	none	THROUGHPUT	false	10 min
Total Delete Requests	TotalDelReqs	none	THROUGHPUT	false	10 min
Total Delete Requests per Minute	TotalDelReqs1m	none	THROUGHPUT	false	10 min
Total Trace Requests	TotTraceReqs	none	THROUGHPUT	false	10 min
Total Trace Requests per Minute	TotTraceReqs1m	none	THROUGHPUT	false	10 min
Total Other Request Methods	TotOtherReqMethods	none	THROUGHPUT	false	10 min
Total Other Request Methods per Minute	TotOtherReqMethods1m	none	THROUGHPUT	false	10 min

Table 30-20. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Method Requests	TotMethodReqs	none	THROUGHPUT	false	10 min
Total Method Requests per Minute	TotMethodReqs1m	none	THROUGHPUT	false	10 min
Total CGI Requests	TotCGIReqs	none	THROUGHPUT	false	10 min
Total CGI Requests per Minute	TotCGIReqs1m	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests	TotISAPIExtReqs	none	THROUGHPUT	false	10 min
Total ISAPI Extension Requests per Minute	TotISAPIExtReqs1m	none	THROUGHPUT	false	10 min
Total Not Found Errors	TotNotFoundErr	none	THROUGHPUT	false	10 min
Total Not Found Errors per Minute	TotNotFoundErr1m	none	THROUGHPUT	false	10 min
Total Locked Errors	TotLockedErrs	none	THROUGHPUT	false	10 min
Total Locked Errors per Minute	TotLockedErrs1m	none	THROUGHPUT	false	10 min
Current CGI Requests	CurrCGIReqs	none	THROUGHPUT	false	10 min
Current CGI Requests per Minute	CurrCGIReqs1m	none	THROUGHPUT	false	10 min
Current ISAPI Extension Requests	CurrISAPIExtReqs	none	THROUGHPUT	false	10 min
Maximum CGI Requests	MaxCGIReqs	none	THROUGHPUT	false	10 min
Maximum ISAPI Extension Requests	MaxISAPIExtReqs	none	THROUGHPUT	false	10 min
Total Blocked Async I/O Requests	TotBlckedAsyncReqs	none	UTILIZATION	false	10 min
Total Blocked Async I/O Requests per Minute	TotBlckedAsyncReqs1m	none	UTILIZATION	false	10 min
Total Allowed Async I/O Requests	TotAllowedAsyncReqs	none	UTILIZATION	false	10 min

Table 30-20. Supported Metrics (Continued)

Name	Alias	Units	Category	Default On	Default Interval
Total Allowed Async I/O Requests per Minute	TotAllowedAsyn cReqs1m	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests	TotRejedAsyncR eqs	none	UTILIZATION	false	10 min
Total Rejected Async I/O Requests per Minute	TotRejedAsyncR eqs1m	none	UTILIZATION	false	10 min
Current Blocked Async I/O Requests	CurrBlckedAsyn cReqs	none	UTILIZATION	false	5 min
Measured Async I/O Bandwidth Usage	MeasuredAsync Bandwidth	none	UTILIZATION	false	5 min

Configuration help:

The vCenter Hyperic Sharepoint plugin manage a Sharepoint server.

- [SharePoint Supported Versions and Requirements](#) on page 727
This topic provides information about the versions of SharePoint server supported by vCenter Hyperic.
- [Configuring SharePoint to work with vCenter Hyperic](#) on page 727
This section provides instructions for configuring vCenter Hyperic to manage SharePoint.
- [Resource Types and Management Functions](#) on page 728
This topic describes the management functions the SharePoint plugin performs for SharePoint components.
- [SharePoint 2010 server](#) on page 729
- [SharePoint 2007 server](#) on page 749

SharePoint Supported Versions and Requirements

This topic provides information about the versions of SharePoint server supported by vCenter Hyperic.

The SharePoint plugin supports the following versions of SharePoint:

- SharePoint 2010
- SharePoint 2007

Configuring SharePoint to work with vCenter Hyperic

This section provides instructions for configuring vCenter Hyperic to manage SharePoint.

- [Step 1: Install the vCenter Hyperic Agent](#) on page 728
This topic provides instructions for installing the vCenter Hyperic agent to manage SharePoint.
- [Step 2: Import the SharePoint Server](#) on page 728
This topic provides instructions for importing the SharePoint server.
- [Step 3: Configure SharePoint Server in vCenter Hyperic](#) on page 728
This topic provides instructions for configuring the SharePoint server in vCenter Hyperic.

Step 1: Install the vCenter Hyperic Agent

This topic provides instructions for installing the vCenter Hyperic agent to manage SharePoint.

Procedure

- ◆ Install a vCenter Hyperic agent on the SharePoint host.

See *Install an Agent-Only Package in Getting Started with vCenter Hyperic* for instructions.

Step 2: Import the SharePoint Server

This topic provides instructions for importing the SharePoint server.

Procedure

- 1 After you start the vCenter Hyperic agent, it should discover the SharePoint server. The server should appear in the Auto-Discovery portlet on the Dashboard.
- 2 Import the server.

Step 3: Configure SharePoint Server in vCenter Hyperic

This topic provides instructions for configuring the SharePoint server in vCenter Hyperic.

Procedure

- 1 Navigate to the Configuration Properties page for the SharePoint server instance.
By default, the checkboxes for the SharePoint services are enabled.
- 2 Clear the checkbox for each service that you do not want to discover.

After discovery, the Metrics will be available in the **Monitor** tab for the SharePoint resource.

Resource Types and Management Functions

This topic describes the management functions the SharePoint plugin performs for SharePoint components.

Auto-Discovery

The SharePoint plugin uses the `SharePointServerDetector` auto-discovery class.

The plugin searches the Windows Registry to discover SharePoint.

Measurements

The SharePoint plugin performs measurement with the `SharePointServerMeasurement` class. Most metrics are obtained from Windows performance counters. Metrics for the `WindowsService` resource type are obtained using SIGAR.

Control

The SharePoint plugin uses the `org.hyperic.hq.product.Win32ControlPlugin` support class to provide the following control actions for the

`WindowsService`

service types:

- start

- stop
- restart

SharePoint 2010 server

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-1. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	5 min
Template Cache Average Record Age	TemplateCacheAverageRecordAge	none	UTILIZATION	false	5 min
Template Cache Total Records Evicted	TemplateCacheTotalRecordsEvicted	none	UTILIZATION	false	5 min
Template Cache Current Records	TemplateCacheCurrentRecords	none	UTILIZATION	false	5 min
Template Cache Total Records Added	TemplateCacheTotalRecordsAdded	none	UTILIZATION	false	5 min
Template Cache Rapid Growth Trim Count	TemplateCacheRapidGrowthTrimCount	none	UTILIZATION	false	5 min
Template Cache Low Memory Trim Count	TemplateCacheLowMemoryTrimCount	none	UTILIZATION	false	5 min
Template Cache Scheduled Trim Count	TemplateCacheScheduledTrimCount	none	UTILIZATION	false	5 min
Template Cache Total Miss Count	TemplateCacheTotalMissCount	none	UTILIZATION	false	5 min
Template Cache Total Hit Count	TemplateCacheTotalHitCount	none	UTILIZATION	false	5 min
Template Cache XML Miss Count	TemplateCacheXMLMissCount	none	UTILIZATION	false	5 min
Template Cache XML Hit Count	TemplateCacheXMLHitCount	none	UTILIZATION	false	5 min
Template Cache Max Size	TemplateCacheMaxSize	none	UTILIZATION	false	5 min
Template Cache Size	TemplateCacheSize	none	UTILIZATION	false	5 min
Process ID	ProcessID	none	UTILIZATION	false	5 min
Throttled Page Requests	Throttled Page Requests	none	UTILIZATION	false	5 min
Object Cache GC Size	ObjectCacheGCSize	none	UTILIZATION	false	5 min

Table 31-1. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Object Cache GC Count	ObjectCacheGCCount	none	UTILIZATION	false	5 min
Object Cache Miss Count	ObjectCacheMissCount	none	UTILIZATION	false	5 min
Object Cache Hit Count	ObjectCacheHitCount	none	UTILIZATION	false	5 min
Object Cache Hit %	ObjectCacheHit%	none	UTILIZATION	true	5 min
Object Cache Resurrected Count	ObjectCacheResurrectedCount	none	UTILIZATION	false	5 min
Object Cache Expired Size	ObjectCacheExpiredSize	none	UTILIZATION	false	5 min
Object Cache Expired Count	ObjectCacheExpiredCount	none	UTILIZATION	false	5 min
Object Cache Always Live Size	ObjectCacheAlwaysLiveSize	none	UTILIZATION	false	5 min
Object Cache Always Live Count	ObjectCacheAlwaysLiveCount	none	UTILIZATION	false	5 min
Object Cache Live Size	ObjectCacheLiveSize	none	UTILIZATION	false	5 min
Object Cache Live Count	ObjectCacheLiveCount	none	UTILIZATION	false	5 min
Sql Query Executing time	SqlQueryExecutingtime	none	UTILIZATION	false	5 min
Executing Sql Queries	ExecutingSqlQueries	none	UTILIZATION	true	5 min
Responded Page Requests Rate	RespondedPageRequestsRate	none	UTILIZATION	false	5 min
Executing Time/Page Request	ExecutingTime/PageRequest	none	UTILIZATION	true	5 min
Current Page Requests	CurrentPageRequests	none	UTILIZATION	false	5 min
Reject Page Requests Rate	RejectPageRequestsRate	none	UTILIZATION	true	5 min
Incoming Page Requests Rate	IncomingPageRequestsRate	none	UTILIZATION	true	5 min
Active Threads	ActiveThreads	none	UTILIZATION	true	5 min
Native Heap Size	NativeHeapSize	none	UTILIZATION	false	5 min
Active Heap Count	ActiveHeapCount	none	UTILIZATION	false	5 min
Native Heap Count	NativeHeapCount	none	UTILIZATION	false	5 min
Global Heap Size	GlobalHeapSize	none	UTILIZATION	true	5 min

Configuration help

- [SharePoint 2010 Disk-Based Cache service](#) on page 731
- [SharePoint 2010 Foundation BDC Metadata service](#) on page 732
- [SharePoint 2010 Foundation BDC Online service](#) on page 733
- [SharePoint 2010 Foundation Search Archival Plugin service](#) on page 734
- [SharePoint 2010 Foundation Search FAST Content Plugin service](#) on page 734
- [SharePoint 2010 Foundation Search Gatherer Databases service](#) on page 736
- [SharePoint 2010 Foundation Search Gatherer Projects service](#) on page 736
- [SharePoint 2010 Foundation Search Gatherer service](#) on page 738
- [SharePoint 2010 Foundation Search Indexer Plugin service](#) on page 742
- [SharePoint 2010 Foundation Search Query Processor service](#) on page 745
- [SharePoint 2010 Foundation Search Schema Plugin service](#) on page 746
- [SharePoint 2010 Publishing Cache service](#) on page 746
- [SharePoint 2010 Records Management Counters service](#) on page 747
- [SharePoint 2010 Webserver service](#) on page 748
- [SharePoint 2010 WindowsService service](#) on page 748

SharePoint 2010 Disk-Based Cache service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-2. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Old Blob Cache Folders Pending Delete	OldBlobCacheFoldersPendingDelete	none	UTILIZATION	false	5 min
Total Objects Currently Being Transferred to blob cache	TotalObjectsCurrentlyBeingTransferredtoblobcache	none	UTILIZATION	false	5 min
Total objects in Blob Cache	TotalobjectsinBlobCache	none	UTILIZATION	false	5 min
Total blob index writes	Totalblobindexwrites	none	UTILIZATION	false	5 min

Table 31-2. Supported Metrics (Continued)

Name	Alias	Category	Utils	Default Value	Default On
Total number of objects added to blob cache	Totalnumberofobjectsaddedtoblobcache	none	UTILIZATION	false	5 min
Blob cache hit ratio	Blobcachehitratio	none	UTILIZATION	false	5 min
Blob cache miss count	Blobcachemisscount	none	UTILIZATION	false	5 min
Blob cache misses / sec	Blobcachemisses/sec	none	UTILIZATION	true	5 min
Blob cache hit count	Blobcachehitcount	none	UTILIZATION	false	5 min
Blob cache hits / sec	Blobcachehits/sec	none	UTILIZATION	true	5 min
Blob cache flushes / second	Blobcacheflushes/second	none	UTILIZATION	true	5 min
Total number of cache flushes	Totalnumberofcacheflushes	none	UTILIZATION	false	5 min
Blob Cache fill ratio	BlobCachefillratio	none	UTILIZATION	false	5 min
Total object discards from blob cache	Totalobjectdiscardsfromblobcache	none	UTILIZATION	false	5 min
Total blob disk size	Totalblobdisksize	none	UTILIZATION	false	5 min
Total number of cache compactions	Totalnumberofcachecompactions	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation BDC Metadata service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-3. Supported Metrics

Name	Alias	Category	Utils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Cache misses per second	Cachemissespersecond	none	UTILIZATION	true	5 min
Cache hits per second	Cachehitspersecond	none	UTILIZATION	true	5 min

Configuration help

SharePoint 2010 Foundation BDC Online service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-4. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Total calls failed	Totalcallsfailed	none	UTILIZATION	true	5 min
Total calls per second	Totalcallspersecond	none	UTILIZATION	true	5 min
BulkIdEnumerators per second	BulkIdEnumeratorspersecond	none	UTILIZATION	false	5 min
BulkAssociationNavigators per second	BulkAssociationNavigatorspersecond	none	UTILIZATION	false	5 min
BulkAssociatedIdEnumerators per second	BulkAssociatedIdEnumeratorspersecond	none	UTILIZATION	false	5 min
BulkSpecificFinders per second	BulkSpecificFinderspersecond	none	UTILIZATION	false	5 min
BinarySecurityDescriptorAccessors per second	BinarySecurityDescriptorAccessorspersecond	none	UTILIZATION	false	5 min
StreamAccessors per second	StreamAccessorspersecond	none	UTILIZATION	false	5 min
Disassociators per second	Disassociatorspersecond	none	UTILIZATION	false	5 min
Associators per second	Associatorspersecond	none	UTILIZATION	false	5 min
AssociationNavigators per second	AssociationNavigatorspersecond	none	UTILIZATION	false	5 min
DeletedIdEnumerators per second	DeletedIdEnumeratorspersecond	none	UTILIZATION	false	5 min
ChangedIdEnumerators per second	ChangedIdEnumeratorspersecond	none	UTILIZATION	false	5 min
Deleters per second	Deleterspersecond	none	UTILIZATION	false	5 min
Updaters per second	Updaterspersecond	none	UTILIZATION	false	5 min
Creators per second	Creatorspersecond	none	UTILIZATION	false	5 min
AccessCheckers per second	AccessCheckerspersecond	none	UTILIZATION	false	5 min

Table 31-4. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Scalars per second	Scalarspersecond	none	UTILIZATION	false	5 min
IdEnumerators per second	IdEnumeratorspersecond	none	UTILIZATION	false	5 min
GenericInvokers per second	GenericInvokerspersecond	none	UTILIZATION	false	5 min
SpecificFinders per second	SpecificFinderspersecond	none	UTILIZATION	false	5 min
Finders per second	Finderspersecond	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search Archival Plugin service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-5. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Queues Committing	QueuesCommitting	none	UTILIZATION	true	5 min
Queues Waiting	QueuesWaiting	none	UTILIZATION	true	5 min
Queues Filtering	QueuesFiltering	none	UTILIZATION	true	5 min
Queues Available	QueuesAvailable	none	UTILIZATION	true	5 min
Bulk Insert Sessions	BulkInsertSessions	none	UTILIZATION	false	5 min
Retried documents	Retrieddocuments	none	UTILIZATION	false	5 min
Blocked documents	Blockeddocuments	none	UTILIZATION	false	5 min
Total documents	Totaldocuments	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search FAST Content Plugin service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-6. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Batches Failed Timeout	BatchesFailedTimeout	none	UTILIZATION	true	5 min
Submission Timeouts	SubmissionTimeouts	none	UTILIZATION	true	5 min
Items Failed Total	ItemsFailedTotal	none	UTILIZATION	true	5 min
Items Failed Timeout	ItemsFailedTimeout	none	UTILIZATION	true	5 min
Feed Rate Data	FeedRateData	none	UTILIZATION	false	5 min
Feed Rate Item	FeedRateItem	none	UTILIZATION	false	5 min
Submitter Thread Submit Time	SubmitterThreadSubmitTime	none	UTILIZATION	false	5 min
Submitter Thread Idle Time	SubmitterThreadIdleTime	none	UTILIZATION	false	5 min
Submitter Threads	SubmitterThreads	none	UTILIZATION	false	5 min
Transactions Delete Completed	TransactionsDeleteCompleted	none	UTILIZATION	false	5 min
Transactions Update Completed	TransactionsUpdateCompleted	none	UTILIZATION	false	5 min
Transactions Add Completed	TransactionsAddCompleted	none	UTILIZATION	false	5 min
Transactions Delete Started	TransactionsDeleteStarted	none	UTILIZATION	false	5 min
Transactions Update Started	TransactionsUpdateStarted	none	UTILIZATION	false	5 min
Transactions Add Started	TransactionsAddStarted	none	UTILIZATION	false	5 min
Avg Callback Time	AvgCallbackTime	none	UTILIZATION	false	5 min
Avg Submit Time	AvgSubmitTime	none	UTILIZATION	false	5 min
Avg Wait Time	AvgWaitTime	none	UTILIZATION	false	5 min
Avg Init Time	AvgInitTime	none	UTILIZATION	false	5 min
Avg End-To-End Time	AvgEnd-To-EndTime	none	UTILIZATION	false	5 min
Batches Submitted	BatchesSubmitted	none	UTILIZATION	false	5 min
Batches Ready	BatchesReady	none	UTILIZATION	false	5 min
Batches Open	BatchesOpen	none	UTILIZATION	false	5 min
Batches Failed	BatchesFailed	none	UTILIZATION	false	5 min
Batches Success	BatchesSuccess	none	UTILIZATION	false	5 min
Batches Total	BatchesTotal	none	UTILIZATION	false	5 min
Items In Robot Threads	ItemsInRobotThreads	none	UTILIZATION	false	5 min

Table 31-6. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Items Retried	ItemsRetried	none	UTILIZATION	false	5 min
Items Warnings	ItemsWarnings	none	UTILIZATION	false	5 min
Items No Index	ItemsNoIndex	none	UTILIZATION	false	5 min
Items Ignored	ItemsIgnored	none	UTILIZATION	false	5 min
Items Failed Batch	ItemsFailedBatch	none	UTILIZATION	false	5 min
Items Open	ItemsOpen	none	UTILIZATION	false	5 min
Items Failed Individually	ItemsFailedIndividually	none	UTILIZATION	false	5 min
Items Success	ItemsSuccess	none	UTILIZATION	false	5 min
Items Total	ItemsTotal	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search Gatherer Databases service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-7. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Documents in the crawl history	Documentsinthe crawlhistory	none	UTILIZATION	true	5 min
Documents in the crawl queue	Documentsinthe crawlqueue	none	UTILIZATION	true	5 min
Links Waiting to be processed	LinksWaitingtob eprocessed	none	UTILIZATION	false	5 min
Links processed	Linksprocessed	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search Gatherer Projects service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-8. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Gatherer Master Flag	GathererMasterFlag	none	UTILIZATION	false	5 min
Transactions in the locked queue	Transactionsinthelockedqueue	none	UTILIZATION	false	5 min
Documents Security Only Error	DocumentsSecurityOnlyError	none	UTILIZATION	false	5 min
Documents NoIndex	DocumentsNoIndex	none	UTILIZATION	false	5 min
Links discovered and not crawled	Linksdiscoveredandnotcrawled	none	UTILIZATION	false	5 min
Links discovered	Linksdiscovered	none	UTILIZATION	false	5 min
Retries Rate	RetriesRate	none	UTILIZATION	false	5 min
Retries	Retries	none	UTILIZATION	false	5 min
Incremental Crawls	IncrementalCrawls	none	UTILIZATION	false	5 min
Gatherer Locked Flag	GathererLockedFlag	none	UTILIZATION	false	5 min
Gatherer Recovery In Progress Flag	GathererRecoveryInProgressFlag	none	UTILIZATION	false	5 min
Gatherer Paused Flag	Gatherer Paused Flag	none	UTILIZATION	false	5 min
Crawls in progress	Crawlsinprogresses	none	UTILIZATION	true	5 min
Filtered Text Rate	FilteredTextRate	none	UTILIZATION	true	5 min
Filtered Text	FilteredText	none	UTILIZATION	false	5 min
Filtered Office Rate	FilteredOfficeRate	none	UTILIZATION	true	5 min
Filtered Office	FilteredOffice	none	UTILIZATION	false	5 min
Filtered HTML Rate	FilteredHTMLRate	none	UTILIZATION	true	5 min
Filtered HTML	FilteredHTML	none	UTILIZATION	false	5 min
Accessed File Rate	AccessedFileRate	none	UTILIZATION	true	5 min
Accessed Files	AccessedFiles	none	UTILIZATION	false	5 min
Accessed HTTP Rate	AccessedHTTPRate	none	UTILIZATION	true	5 min
Accessed HTTP	AccessedHTTP	none	UTILIZATION	false	5 min
File Errors Rate	FileErrorsRate	none	UTILIZATION	true	5 min
File Errors	FileErrors	none	UTILIZATION	false	5 min
HTTP Errors Rate	HTTPErrorsRate	none	UTILIZATION	true	5 min
HTTP Errors	HTTPErrors	none	UTILIZATION	false	5 min
Transactions in filters	Transactionsinfilters	none	UTILIZATION	false	5 min

Table 31-8. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Transactions Started	TransactionsStarted	none	UTILIZATION	false	5 min
Transactions Completed	TransactionsCompleted	none	UTILIZATION	false	5 min
Transactions Waiting	TransactionsWaiting	none	UTILIZATION	false	5 min
Transactions Delayed	TransactionsDelayed	none	UTILIZATION	false	5 min
Transactions On Hold	TransactionsOnHold	none	UTILIZATION	false	5 min
Transactions In Progress	TransactionsInProgress	none	UTILIZATION	false	5 min
Documents Security Only	DocumentsSecurityOnly	none	UTILIZATION	false	5 min
Documents Not Modified	DocumentsNotModified	none	UTILIZATION	false	5 min
Documents Deleted	DocumentsDeleted	none	UTILIZATION	false	5 min
Documents Processed Rate	DocumentsProcessedRate	none	UTILIZATION	false	5 min
Documents Processed	DocumentsProcessed	none	UTILIZATION	false	5 min
Documents Error Rate	DocumentsErrorRate	none	UTILIZATION	false	5 min
Documents Error	DocumentsError	none	UTILIZATION	false	5 min
Documents Success Rate	DocumentsSuccessRate	none	UTILIZATION	false	5 min
Documents Success	DocumentsSuccess	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search Gatherer service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-9. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Filter Processes Terminated 02	FilterProcessesTerminated02	none	UTILIZATION	false	5 min

Table 31-9. Supported Metrics (Continued)

Name	Alias	Category	Utils	Default Value	Default On
Filter Processes Terminated Dedicated Secondary 02	FilterProcessesTerminatedDedicatedSecondary02	none	UTILIZATION	false	5 min
Filter Processes Terminated Dedicated 02	FilterProcessesTerminatedDedicated02	none	UTILIZATION	false	5 min
Filter Processes Terminated Secondary 02	FilterProcessesTerminatedSecondary02	none	UTILIZATION	false	5 min
Filter Processes Terminated Primary 02	FilterProcessesTerminatedPrimary02	none	UTILIZATION	false	5 min
Filter Processes Terminated Dedicated Secondary 01	FilterProcessesTerminatedDedicatedSecondary01	none	UTILIZATION	false	5 min
FilterProcessesTerminatedDedicated01	FilterProcessesTerminatedDedicated01	none	UTILIZATION	false	5 min
Filter Processes Terminated Secondary 01	FilterProcessesTerminatedSecondary01	none	UTILIZATION	false	5 min
Filter Processes Terminated Primary 01	FilterProcessesTerminatedPrimary01	none	UTILIZATION	false	5 min
Filter Processes Created Dedicated Secondary	FilterProcessesCreatedDedicatedSecondary	none	UTILIZATION	false	5 min
Filter Processes Created Dedicated	FilterProcessesCreatedDedicated	none	UTILIZATION	false	5 min
Filter Processes Created Secondary	FilterProcessesCreatedSecondary	none	UTILIZATION	false	5 min
Filter Processes Created Primary	FilterProcessesCreatedPrimary	none	UTILIZATION	false	5 min
Filter Processes Active Dedicated Secondary	FilterProcessesActiveDedicatedSecondary	none	UTILIZATION	false	5 min
Filter Processes Active Dedicated	FilterProcessesActiveDedicated	none	UTILIZATION	false	5 min
Filter Processes Active Secondary	FilterProcessesActiveSecondary	none	UTILIZATION	false	5 min
Filter Processes Active Primary	FilterProcessesActivePrimary	none	UTILIZATION	false	5 min
Changes Processed	ChangesProcessed	none	UTILIZATION	true	5 min
DocProcessTime 10 FinalCommit	DocProcessTime10FinalCommit	none	UTILIZATION	false	5 min
DocProcessTime 09 Propagation	DocProcessTime09Propagation	none	UTILIZATION	false	5 min

Table 31-9. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
DocProcessTime 08 Merge	DocProcessTime 08Merge	none	UTILIZATION	false	5 min
DocProcessTime 07 PropertyStore	DocProcessTime 07PropertyStore	none	UTILIZATION	false	5 min
DocProcessTime 06 SyncCompletion	DocProcessTime 06SyncCompleti on	none	UTILIZATION	false	5 min
DocProcessTime 05 Filtering	DocProcessTime 05Filtering	none	UTILIZATION	false	5 min
DocProcessTime 04 StandardPropertie s	DocProcessTime 04StandardPrope rties	none	UTILIZATION	false	5 min
DocProcessTime 03 Connect	DocProcessTime 03Connect	none	UTILIZATION	false	5 min
DocProcessTime 02 Delayed	DocProcessTime 02Delayed	none	UTILIZATION	false	5 min
DocProcessTime 01 Loading	DocProcessTime 01Loading	none	UTILIZATION	false	5 min
ThreadTime 16 CatchAllProcessin g	ThreadTime16Ca tchAllProcessing	none	UTILIZATION	false	5 min
ThreadTime 15 OtherPlugins	ThreadTime15Ot herPlugins	none	UTILIZATION	false	5 min
ThreadTime 14 GathererPlugin	ThreadTime14Ga thererPlugin	none	UTILIZATION	false	5 min
ThreadTime 13 RankingPlugin	ThreadTime13Ra nkingPlugin	none	UTILIZATION	false	5 min
ThreadTime 12 ScopesPlugin	ThreadTime12Sc opesPlugin	none	UTILIZATION	false	5 min
ThreadTime 11 MatrixPlugin	ThreadTime11M atrixPlugin	none	UTILIZATION	false	5 min
ThreadTime 10 FeatureExtraction Plugin	ThreadTime10Fe atureExtractionPl ugin	none	UTILIZATION	false	5 min
ThreadTime 09 ArchivalPlugin	ThreadTime09Ar chivalPlugin	none	UTILIZATION	false	5 min
ThreadTime 08 IndexerPlugin	ThreadTime08In dexerPlugin	none	UTILIZATION	false	5 min
ThreadTime 07 WordBreaking	ThreadTime07W ordBreaking	none	UTILIZATION	false	5 min
ThreadTime 06 IFilterData	ThreadTime06IFi lterData	none	UTILIZATION	false	5 min
ThreadTime 05 PHData	ThreadTime05P HData	none	UTILIZATION	false	5 min
ThreadTime 04 GetStandardPropert ies	ThreadTime04Ge tStandardPropert ies	none	UTILIZATION	false	5 min

Table 31-9. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
ThreadTime 03 Connect	ThreadTime03Connect	none	UTILIZATION	false	5 min
ThreadTime 02 FilterDriverInit	ThreadTime02FilterDriverInit	none	UTILIZATION	false	5 min
ThreadTime 01 NotActive	ThreadTime01NotActive	none	UTILIZATION	false	5 min
Threads Loading Transactions	ThreadsLoadingTransactions	none	UTILIZATION	false	5 min
Threads Processing Links	ThreadsProcessingLinks	none	UTILIZATION	false	5 min
Threads Committing Transactions	ThreadsCommittingTransactions	none	UTILIZATION	True	5 min
System IO traffic rate	SystemIOtrafficrate	none	UTILIZATION	false	5 min
Stemmers Cached	StemmersCached	none	UTILIZATION	false	5 min
Word Breakers Cached	WordBreakersCached	none	UTILIZATION	false	5 min
Documents Successfully Filtered Rate	DocumentsSuccessfullyFilteredRate	none	UTILIZATION	false	5 min
Documents Successfully Filtered	DocumentsSuccessfullyFiltered	none	UTILIZATION	false	5 min
Threads In Plugins	ThreadsInPlugins	none	UTILIZATION	false	5 min
Threads Accessing Network	ThreadsAccessingNetwork	none	UTILIZATION	false	5 min
Servers Unavailable	ServersUnavailable	none	UTILIZATION	false	5 min
Servers Currently Unavailable	ServersCurrentlyUnavailable	none	UTILIZATION	false	5 min
Time Outs	TimeOuts	none	UTILIZATION	True	5 min
Robots.Txt Requests	RobotsTxtRequests	none	UTILIZATION	false	5 min
Accessing Robots.Txt File	AccessingRobots.TxtFile	none	UTILIZATION	false	5 min
Documents Filtered Rate	DocumentsFilteredRate	none	UTILIZATION	false	5 min
Documents Filtered	DocumentsFiltered	none	UTILIZATION	false	5 min
Filter Objects	FilterObjects	none	UTILIZATION	false	5 min
Server Objects Created	ServerObjectsCreated	none	UTILIZATION	false	5 min
Server Objects	ServerObjects	none	UTILIZATION	false	5 min
Delayed Documents	DelayedDocuments	none	UTILIZATION	false	5 min

Table 31-9. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Filter Processes Created	FilterProcessesCreated	none	UTILIZATION	false	5 min
Filter Processes Terminated 01	FilterProcessesTerminated01	none	UTILIZATION	false	5 min
Filter Processes Active	FilterProcessesActive	none	UTILIZATION	false	5 min
Active Queue Length	ActiveQueueLength	none	UTILIZATION	True	5 min
Performance Level	PerformanceLevel	none	UTILIZATION	false	5 min
Document Entries	DocumentEntries	none	UTILIZATION	false	5 min
Idle Threads	IdleThreads	none	UTILIZATION	false	5 min
Filtering Threads	FilteringThreads	none	UTILIZATION	false	5 min
Heartbeats Rate	HeartbeatsRate	none	UTILIZATION	false	5 min
Heartbeats	Heartbeats	none	UTILIZATION	false	5 min
Admin Clients	AdminClients	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search Indexer Plugin service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-10. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Persistent Indexes Propagated	PersistentIndexesPropagated	none	UTILIZATION	false	5 min
Average CPU Time Rank Stage 2	AverageCPUTimeRankStage2	none	UTILIZATION	false	5 min
Average Exec Time Rank Stage 2	AverageExecTimeRankStage2	none	UTILIZATION	false	5 min
Average CPU Time Rank Stage 1 Without Precalc	AverageCPUTimeRankStage1WithoutPrecalc	none	UTILIZATION	false	5 min
Average Exec Time Rank Stage 1 Without Precalc	AverageExecTimeRankStage1WithoutPrecalc	none	UTILIZATION	false	5 min
Average CPU Time Rank Stage 1 With Precalc	AverageCPUTimeRankStage1WithPrecalc	none	UTILIZATION	false	5 min

Table 31-10. Supported Metrics (Continued)

Name	Alias	Category	Untils	Default Value	Default On
Average Exec Time Rank Stage 1 With Precalc	AverageExecTimeRankStage1WithPrecalc	none	UTILIZATION	false	5 min
Average CPU Time Create Unsorted Cursor	AverageCPUTimeCreateUnsortedCursor	none	UTILIZATION	false	5 min
Average Exec Time Create Unsorted Cursor	AverageExecTimeCreateUnsortedCursor	none	UTILIZATION	false	5 min
Average CPU Time Other	AverageCPUTimeOther	none	UTILIZATION	false	5 min
Average CPU Time GetRows	AverageCPUTimeGetRows	none	UTILIZATION	false	5 min
Average CPU Time Resolve	AverageCPUTimeResolve	none	UTILIZATION	false	5 min
Average CPU Time Create	AverageCPUTimeCreate	none	UTILIZATION	false	5 min
Average Exec Time Other	AverageExecTimeOther	none	UTILIZATION	false	5 min
Average Exec Time GetRows	AverageExecTimeGetRows	none	UTILIZATION	false	5 min
Average Exec Time Resolve	AverageExecTimeResolve	none	UTILIZATION	false	5 min
Average Exec Time Create	AverageExecTimeCreate	none	UTILIZATION	false	5 min
Documents in Propagation	DocumentsinPropagation	none	UTILIZATION	false	5 min
Propagation Rate	PropagationRate	none	UTILIZATION	True	5 min
Scope Compilations - Propagation Task Receiver	ScopeCompilations-PropagationTaskReceiver	none	UTILIZATION	false	5 min
Scope Compilations - Propagation Task Sender	ScopeCompilations-PropagationTaskSender	none	UTILIZATION	false	5 min
Tasks - Propagation Task Sender	Tasks-PropagationTaskSender	none	UTILIZATION	false	5 min
Indexes - Errors In Reception	Indexes-ErrorsInReception	none	UTILIZATION	false	5 min
Indexes - Received Successfully	Indexes-ReceivedSuccessfully	none	UTILIZATION	false	5 min
Tasks - Index Receiver	Tasks-IndexReceiver	none	UTILIZATION	false	5 min
Indexes - Errors In Propagation	Indexes-ErrorsInPropagation	none	UTILIZATION	false	5 min

Table 31-10. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Indexes - Propagated Successfully	Indexes-PropagatedSuccessfully	none	UTILIZATION	false	5 min
Tasks - Index Propagator	Tasks-IndexPropagator	none	UTILIZATION	false	5 min
Average Query Latency	AverageQueryLatency	none	UTILIZATION	true	5 min
L4 Merge Speed - Last	L4MergeSpeed-Last	none	UTILIZATION	false	5 min
L4 Merge - Count	L4Merge-Count	none	UTILIZATION	false	5 min
L4 Merge Speed - Average	L4MergeSpeed-Average	none	UTILIZATION	false	5 min
L4 Merges Now	L4MergesNow	none	UTILIZATION	false	5 min
Persistent Indexes L4	PersistentIndexesL4	none	UTILIZATION	false	5 min
L3 Merge Speed - Last	L3MergeSpeed-Last	none	UTILIZATION	false	5 min
L3 Merge - Count	L3Merge-Count	none	UTILIZATION	false	5 min
L3 Merge Speed - Average	L3MergeSpeed-Average	none	UTILIZATION	false	5 min
L3 Merges Now	L3MergesNow	none	UTILIZATION	false	5 min
Persistent Indexes L3	PersistentIndexesL3	none	UTILIZATION	false	5 min
L2 Merge Speed - Last	L2MergeSpeed-Last	none	UTILIZATION	false	5 min
L2 Merge - Count	L2Merge-Count	none	UTILIZATION	false	5 min
L2 Merge Speed - Average	L2MergeSpeed-Average	none	UTILIZATION	false	5 min
L2 Merges Now	L2MergesNow	none	UTILIZATION	false	5 min
Persistent Indexes L2	PersistentIndexesL2	none	UTILIZATION	false	5 min
L1 Merge Speed - Last	L1MergeSpeed-Last	none	UTILIZATION	false	5 min
L1 Merge - Count	L1Merge-Count	none	UTILIZATION	false	5 min
L1 Merge Speed - Average	L1MergeSpeed-Average	none	UTILIZATION	false	5 min
L1 Merges Now	L1MergesNow	none	UTILIZATION	false	5 min
Persistent Indexes L1	PersistentIndexesL1	none	UTILIZATION	false	5 min
L0 Merge - Flush Speed - Last	L0Merge-FlushSpeed-Last	none	UTILIZATION	false	5 min
L0 Merge - Flush - Count	L0Merge-Flush-Count	none	UTILIZATION	false	5 min
L0 Merge- Flush Speed - Average	L0Merge-FlushSpeed-Average	none	UTILIZATION	false	5 min

Table 31-10. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
L0 Merges - flushes Now	L0Merges-flushesNow	none	UTILIZATION	false	5 min
L0 Indexes - Wordlists	L0Indexes-Wordlists	none	UTILIZATION	false	5 min
Queries Succeeded	QueriesSucceeded	none	UTILIZATION	True	5 min
Queries Failed	QueriesFailed	none	UTILIZATION	True	5 min
Queries	Queries	none	UTILIZATION	True	5 min
Active Connections	ActiveConnections	none	UTILIZATION	false	5 min
Master Merges Now	MasterMergesNow	none	UTILIZATION	false	5 min
Out-Of-Date Document ID Files	Out-Of-DateDocumentIDFiles	none	UTILIZATION	false	5 min
Up-To-Date Document ID Files	Up-To-DateDocumentIDFiles	none	UTILIZATION	false	5 min
Work Items Deleted	WorkItemsDeleted	none	UTILIZATION	false	5 min
Work Items Created	WorkItemsCreated	none	UTILIZATION	false	5 min
Documents Filtered	DocumentsFiltered	none	UTILIZATION	false	5 min
Unique Keys	UniqueKeys	none	UTILIZATION	false	5 min
Index Size	IndexSize	none	UTILIZATION	false	5 min
Persistent Indexes	PersistentIndexes	none	UTILIZATION	false	5 min
Shadow Merge Levels Threshold	ShadowMergeLevelsThreshold	none	UTILIZATION	false	5 min
Shadow Merge Levels	ShadowMergeLevels	none	UTILIZATION	false	5 min
Master Merge Progress	MasterMergeProgress	none	UTILIZATION	false	5 min
Master Merges to Date	MasterMergesToDate	none	UTILIZATION	false	5 min
Master Index Level	MasterIndexLevel	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Foundation Search Query Processor service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-11. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Security Descriptor Cache Misses	SecurityDescriptorCacheMisses	none	UTILIZATION	true	5 min

Configuration help

SharePoint 2010 Foundation Search Schema Plugin service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-12. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Total Documents	TotalDocuments	none	UTILIZATION	true	5 min
Refresh count	Refreshcount	none	UTILIZATION	false	5 min
Total properties processed	Totalpropertiesprocessed	none	UTILIZATION	false	5 min
Duplicate aliases	Duplicatealiases	none	UTILIZATION	false	5 min
Aliases loaded	Aliasesloaded	none	UTILIZATION	false	5 min
Aliases Mapped	AliasesMapped	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Publishing Cache service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-13. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Total object discards	Totalobjectdiscards	none	UTILIZATION	false	5 min
Publishing cache flushes / second	Publishingcacheflushes/second	none	UTILIZATION	true	5 min

Table 31-13. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Total number of cache flushes	Totalnumberofcacheflushes	none	UTILIZATION	false	5 min
Total number of cache compactions	Totalnumberofcachecompaactions	none	UTILIZATION	false	5 min
Total number of objects added	Totalnumberofobjectsadded	none	UTILIZATION	false	5 min
Total objects	Totalobjects	none	UTILIZATION	false	5 min
Publishing cache hit ratio	Publishingcachehitratio	none	UTILIZATION	true	5 min
Publishing cache miss count	Publishingcachemisscount	none	UTILIZATION	false	5 min
Publishing cache misses / sec	Publishingcachemisses/sec	none	UTILIZATION	true	5 min
Publishing cache hit count	Publishingcachehitcount	none	UTILIZATION	false	5 min
Publishing cache hits / sec	Publishingcachehits/sec	none	UTILIZATION	true	5 min

Configuration help

SharePoint 2010 Records Management Counters service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-14. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Search results processed / sec base	Searchresultsprocessed/secbase	none	UTILIZATION	false	5 min
Search results processed / sec	Searchresultsprocessed/sec	none	UTILIZATION	true	5 min
Rate of processing items for policy change	Rateofprocessingitemsforpolicychange	none	UTILIZATION	false	5 min
Total number of items processed by policy change	Totalnumberofitemsprocessedbypolicychange	none	UTILIZATION	false	5 min
Total number of items processed in Search and Process	TotalnumberofitemsprocessedinSearchandProcess	none	UTILIZATION	false	5 min
Total number of holds processed	Totalnumberofholdsprocessed	none	UTILIZATION	false	5 min

Table 31-14. Supported Metrics (Continued)

Name	Alias	Category	Untils	Default Value	Default On
Records expired / sec	Recordsexpired/sec	none	UTILIZATION	false	5 min
Total number of records expired	Totalnumberofrecordsexpired	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2010 Webserver service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-15. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Response Time	ResponseTime	none	UTILIZATION	true	5 min

Configuration help

SharePoint 2010 WindowsService service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: start, stop, restart

Table 31-16. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Start Type	StartType	none	UTILIZATION	false	30 min
Memory Size	MemSize	B	UTILIZATION	true	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min

Table 31-16. Supported Metrics (Continued)

Name	Alias	Category	Untils	Default Value	Default On
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	true	10 min
Cpu Usage	Usage	percentage	UTILIZATION	true	5 min
Start Time	StartTime	epoch-millis	UTILIZATION	false	30 min
Open Handles	OpenHandles	none	UTILIZATION	false	5 min
Threads	Threads	none	UTILIZATION	true	5 min

Configuration help

SharePoint 2007 server

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-17. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Master Index Level	MasterIndexLevel	none	UTILIZATION	false	5 min
Master Merges to Date	MasterMergestoDate	none	UTILIZATION	false	5 min
Master Merge Progress	MasterMergeProgress	none	UTILIZATION	false	5 min
Shadow Merge Levels	ShadowMergeLevels	none	UTILIZATION	false	5 min
Shadow Merge Levels Threshold	ShadowMergeLevelsThreshold	none	UTILIZATION	false	5 min
Persistent Indexes	PersistentIndexes	none	UTILIZATION	false	5 min
Index Size	IndexSize	none	UTILIZATION	false	5 min
Unique Keys	UniqueKeys	none	UTILIZATION	false	5 min
Documents Filtered	DocumentsFiltered	none	UTILIZATION	false	5 min
Work Items Created	WorkItemsCreated	none	UTILIZATION	false	5 min
Work Items Deleted	WorkItemsDeleted	none	UTILIZATION	false	5 min
Up-To-Date Document ID Files	Up-To-DateDocumentIDFiles	none	UTILIZATION	false	5 min
Out-Of-Date Document ID Files	Out-Of-DateDocumentIDFiles	none	UTILIZATION	false	5 min

Table 31-17. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Master Merges Now	MasterMergesNow	none	UTILIZATION	false	5 min
Active Connections	ActiveConnections	none	UTILIZATION	true	5 min
Queries	Queries	none	UTILIZATION	true	5 min
Queries Failed	QueriesFailed	none	UTILIZATION	true	5 min
Queries Succeeded	QueriesSucceeded	none	UTILIZATION	true	5 min
L0 Indexes (Wordlists)	L0Indexes(Wordlists)	none	UTILIZATION	false	5 min
L0 Merges (flushes) Now	L0Merges(flushes)Now	none	UTILIZATION	false	5 min
L0 Merge (Flush) Speed - Average	L0Merge(Flush)Speed-Average	none	UTILIZATION	false	5 min
L0 Merge (Flush) - Count	L0Merge(Flush)-Count	none	UTILIZATION	false	5 min
L0 Merge (Flush) Speed - Last	L0Merge(Flush)Speed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L1	PersistentIndexesL1	none	UTILIZATION	false	5 min
L1 Merges Now	L1MergesNow	none	UTILIZATION	false	5 min
L1 Merge Speed - Average	L1MergeSpeed-Average	none	UTILIZATION	false	5 min
L1 Merge - Count	L1Merge-Count	none	UTILIZATION	false	5 min
L1 Merge Speed - Last	L1MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L2	PersistentIndexesL2	none	UTILIZATION	false	5 min
L2 Merges Now	L2MergesNow	none	UTILIZATION	false	5 min
L2 Merge Speed - Average	L2MergeSpeed-Average	none	UTILIZATION	false	5 min
L2 Merge - Count	L2Merge-Count	none	UTILIZATION	false	5 min
L2 Merge Speed - Last	L2MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L3	PersistentIndexesL3	none	UTILIZATION	false	5 min
L3 Merges Now	L3MergesNow	none	UTILIZATION	false	5 min
L3 Merge Speed - Average	L3MergeSpeed-Average	none	UTILIZATION	false	5 min
L3 Merge - Count	L3Merge-Count	none	UTILIZATION	false	5 min
L3 Merge Speed - Last	L3MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L4	PersistentIndexesL4	none	UTILIZATION	false	5 min
L4 Merges Now	L4MergesNow	none	UTILIZATION	false	5 min

Table 31-17. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
L4 Merge Speed - Average	L4MergeSpeed-Average	none	UTILIZATION	false	5 min
L4 Merge - Count	L4Merge-Count	none	UTILIZATION	false	5 min
L4 Merge Speed - Last	L4MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L5	PersistentIndexesL5	none	UTILIZATION	false	5 min
L5 Merges Now	L5MergesNow	none	UTILIZATION	false	5 min
L5 Merge Speed - Average	L5MergeSpeed-Average	none	UTILIZATION	false	5 min
L5 Merge - Count	L5Merge-Count	none	UTILIZATION	false	5 min
L5 Merge Speed - Last	L5MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L6	PersistentIndexesL6	none	UTILIZATION	false	5 min
L6 Merges Now	L6MergesNow	none	UTILIZATION	false	5 min
L6 Merge Speed - Average	L6MergeSpeed-Average	none	UTILIZATION	false	5 min
L6 Merge - Count	L6Merge-Count	none	UTILIZATION	false	5 min
L6 Merge Speed - Last	L6MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L7	PersistentIndexesL7	none	UTILIZATION	false	5 min
L7 Merges Now	L7MergesNow	none	UTILIZATION	false	5 min
L7 Merge Speed - Average	L7MergeSpeed-Average	none	UTILIZATION	false	5 min
L7 Merge - Count	L7Merge-Count	none	UTILIZATION	false	5 min
L7 Merge Speed - Last	L7MergeSpeed-Last	none	UTILIZATION	false	5 min
Persistent Indexes L8	PersistentIndexesL8	none	UTILIZATION	false	5 min
L8 Merges Now	L8MergesNow	none	UTILIZATION	false	5 min
L8 Merge Speed - Average	L8MergeSpeed-Average	none	UTILIZATION	false	5 min
L8 Merge - Count	L8Merge-Count	none	UTILIZATION	false	5 min
L8 Merge Speed - Last	L8MergeSpeed-Last	none	UTILIZATION	false	5 min

Configuration help

- [SharePoint 2007 Publishing Cache service](#) on page 752
- [SharePoint 2007 Search Archival Plugin service](#) on page 753
- [SharePoint 2007 Search Gatherer service](#) on page 753

This topic provides information about the Search Gatherer service's metrics.

- [SharePoint 2007 Search Gatherer Projects service](#) on page 755
This topic provides information about the Saerch Gatherer Projects service's metrics.
- [SharePoint 2007 Search Schema Plugin service](#) on page 758
This topic provides information about the Search Schema Plugin service's metrics.
- [SharePoint 2007 Webserver service](#) on page 758
This topic provides information about the Webserver service's metrics.
- [SharePoint 2007 WindowsService service](#) on page 759
This topic provides information about the WindowsService service's metrics.

SharePoint 2007 Publishing Cache service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-18. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Publishing cache hits / sec	Publishingcache hits/sec	none	UTILIZATION	true	5 min
Publishing cache hit count	Publishingcache hitcount	none	UTILIZATION	false	5 min
Publishing cache misses / sec	Publishingcache misses/sec	none	UTILIZATION	true	5 min
Publishing cache miss count	Publishingcache misscount	none	UTILIZATION	false	5 min
Publishing cache hit ratio	Publishingcache hitratio	none	UTILIZATION	true	5 min
Total objects	Totalobjects	none	UTILIZATION	false	5 min
Total number of objects added	Totalnumberofobjectsadded	none	UTILIZATION	true	5 min
Total number of cache compactions	Totalnumberofcachecompactions	none	UTILIZATION	false	5 min
Total number of cache flushes	Totalnumberofcacheflushes	none	UTILIZATION	true	5 min
Publishing cache flushes / second	Publishingcacheflushes/second	none	UTILIZATION	false	5 min
Total object discards	Totalobjectdiscards	none	UTILIZATION	false	5 min
Total blob index writes	Totalblobindexwrites	none	UTILIZATION	false	5 min
Total blob disk size	Totalblobdisksize	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2007 Search Archival Plugin service

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-19. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Total docs in first queue	Totaldocsinfirstqueue	none	UTILIZATION	false	5 min
Total docs in second queue	Totaldocsinsecondqueue	none	UTILIZATION	false	5 min
Active docs in first queue	Activedocsinfirstqueue	none	UTILIZATION	false	5 min
Active docs in second queue	Activedocsinsecondqueue	none	UTILIZATION	false	5 min
Active Queue	ActiveQueue	none	UTILIZATION	true	5 min
Total Documents	TotalDocuments	none	UTILIZATION	false	5 min
Blocked documents	Blockeddocuments	none	UTILIZATION	true	5 min
Error documents	Errordocuments	none	UTILIZATION	true	5 min
Retried documents	Retrieddocuments	none	UTILIZATION	false	5 min
Bulk Insert Sessions	BulkInsertSessions	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2007 Search Gatherer service

This topic provides information about the Search Gatherer service's metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-20. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Notification Sources	NotificationSources	none	UTILIZATION	false	5 min

Table 31-20. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Ext. Notifications Received	Ext.Notifications Received	none	UTILIZATION	false	5 min
Ext. Notifications Rate	Ext.Notifications Rate	none	UTILIZATION	false	5 min
Admin Clients	AdminClients	none	UTILIZATION	false	5 min
Heartbeats	Heartbeats	none	UTILIZATION	false	5 min
Heartbeats Rate	HeartbeatsRate	none	UTILIZATION	true	5 min
Filtering Threads	FilteringThreads	none	UTILIZATION	true	5 min
Idle Threads	IdleThreads	none	UTILIZATION	true	5 min
Document Entries	DocumentEntries	none	UTILIZATION	false	5 min
Performance Level	PerformanceLevel	none	UTILIZATION	false	5 min
Active Queue Length	ActiveQueueLength	none	UTILIZATION	false	5 min
Filter Processes	FilterProcesses	none	UTILIZATION	false	5 min
Filter Processes Max	FilterProcessesMax	none	UTILIZATION	false	5 min
Filter Process Created	FilterProcessCreated	none	UTILIZATION	false	5 min
Delayed Documents	DelayedDocuments	none	UTILIZATION	false	5 min
Server Objects	ServerObjects	none	UTILIZATION	false	5 min
Server Objects Created	ServerObjectsCreated	none	UTILIZATION	false	5 min
Filter Objects	FilterObjects	none	UTILIZATION	true	5 min
Documents Filtered	DocumentsFiltered	none	UTILIZATION	false	5 min
Documents Filtered Rate	DocumentsFilteredRate	none	UTILIZATION	false	5 min
Accessing Robots.Txt File	AccessingRobots.TxtFile	none	UTILIZATION	false	5 min
Robots.Txt Requests	Robots.TxtRequests	none	UTILIZATION	false	5 min
Time Outs	TimeOuts	none	UTILIZATION	false	5 min
Servers Currently Unavailable	ServersCurrentlyUnavailable	none	UTILIZATION	true	5 min
Servers Unavailable	ServersUnavailable	none	UTILIZATION	false	5 min
Threads Accessing	ThreadsAccessing	none	UTILIZATION	false	5 min
Threads Accessing Network	ThreadsAccessingNetwork	none	UTILIZATION	true	5 min
Threads In Plugins	ThreadsInPlugins	none	UTILIZATION	true	5 min

Table 31-20. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Documents Successfully Filtered	DocumentsSuccessfullyFiltered	none	UTILIZATION	false	5 min
Documents Successfully Filtered Rate	DocumentsSuccessfullyFilteredRate	none	UTILIZATION	false	5 min
Documents Delayed Retry	DocumentsDelayedRetry	none	UTILIZATION	false	5 min
Word Breakers Cached	WordBreakersCached	none	UTILIZATION	false	5 min
Stemmers Cached	StemmersCached	none	UTILIZATION	false	5 min
All Notifications Received	AllNotificationsReceived	none	UTILIZATION	false	5 min
Notifications Rate	NotificationsRate	none	UTILIZATION	false	5 min
System IO traffic rate	SystemIOtrafficrate	none	UTILIZATION	false	5 min
Reason to back off	ReasonToBackoff	none	UTILIZATION	false	5 min
Threads blocked due to back off	ThreadsBlockedDueToBackoff	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2007 Search Gatherer Projects service

This topic provides information about the Search Gatherer Projects service's metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-21. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Document Additions	DocumentAdditions	none	UTILIZATION	false	5 min
Document Add Rate	DocumentAddRate	none	UTILIZATION	true	5 min
Document Moves/Renames	DocumentMoves/Renames	none	UTILIZATION	false	5 min
Document Move and Rename Rate	DocumentMoveandRenameRate	none	UTILIZATION	false	5 min
Document Deletes	DocumentDeletes	none	UTILIZATION	false	5 min
Document Delete Rate	DocumentDeleteRate	none	UTILIZATION	false	5 min

Table 31-21. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
DocumentModifies	DocumentModifies	none	UTILIZATION	false	5 min
Document Modifies Rate	DocumentModifiesRate	none	UTILIZATION	false	5 min
Waiting Documents	WaitingDocuments	none	UTILIZATION	false	5 min
Documents In Progress	DocumentsInProgress	none	UTILIZATION	false	5 min
Documents On Hold	DocumentsOnHold	none	UTILIZATION	false	5 min
Delayed Documents	DelayedDocuments	none	UTILIZATION	false	5 min
URLs in History	URLsinHistory	none	UTILIZATION	false	5 min
Processed Documents	ProcessedDocuments	none	UTILIZATION	false	5 min
Processed Documents Rate	ProcessedDocumentsRate	none	UTILIZATION	false	5 min
Status Success	StatusSuccess	none	UTILIZATION	false	5 min
Success Rate	SuccessRate	none	UTILIZATION	false	5 min
Status Error	StatusError	none	UTILIZATION	false	5 min
Error Rate	ErrorRate	none	UTILIZATION	false	5 min
HTTP Errors	HTTPErrors	none	UTILIZATION	false	5 min
HTTP Errors Rate	HTTPErrorsRate	none	UTILIZATION	true	5 min
File Errors	FileErrors	none	UTILIZATION	false	5 min
File Errors Rate	FileErrorsRate	none	UTILIZATION	true	5 min
Accessed HTTP	AccessedHTTP	none	UTILIZATION	false	5 min
Accessed HTTP Rate	AccessedHTTPRate	none	UTILIZATION	true	5 min
Accessed Files	AccessedFiles	none	UTILIZATION	false	5 min
Filtered HTML	FilteredHTML	none	UTILIZATION	true	5 min
Filtered HTML Rate	FilteredHTMLRate	none	UTILIZATION	false	5 min
Filtered Office	FilteredOffice	none	UTILIZATION	false	5 min
Filtered Office Rate	FilteredOfficeRate	none	UTILIZATION	false	5 min
Filtered Text	FilteredText	none	UTILIZATION	false	5 min
Filtered Text Rate	FilteredTextRate	none	UTILIZATION	false	5 min
Crawls in progress	CrawlsInProgress	none	UTILIZATION	false	5 min
Gatherer Paused Flag	GathererPausedFlag	none	UTILIZATION	false	5 min
Recovery In Progress Flag	RecoveryInProgressFlag	none	UTILIZATION	false	5 min
Not Modified	NotModified	none	UTILIZATION	false	5 min

Table 31-21. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Iterating History In Progress Flag	IteratingHistoryInProgressFlag	none	UTILIZATION	false	5 min
Incremental Crawls	IncrementalCrawls	none	UTILIZATION	false	5 min
Filtering Documents	FilteringDocuments	none	UTILIZATION	false	5 min
Started Documents	StartedDocuments	none	UTILIZATION	false	5 min
Retries	Retries	none	UTILIZATION	false	5 min
Retries Rate	RetriesRate	none	UTILIZATION	false	5 min
Adaptive Crawl Accepts	AdaptiveCrawlAccepts	none	UTILIZATION	false	5 min
Adaptive Crawl Excludes	AdaptiveCrawlExcludes				
Adaptive Crawl Error Samples	AdaptiveCrawlErrorSamples				
Adaptive Crawl Errors	AdaptiveCrawlErrors				
Adaptive Crawl False Positives	AdaptiveCrawlFalsePositives				
Adaptive Crawl Total	AdaptiveCrawlTotal				
Changed Documents	ChangedDocuments				
Unique Documents	UniqueDocuments				
History Recovery Progress	HistoryRecoveryProgress				
HTTP Errors Rate	HTTPErrorsRate				
HTTP Errors	HTTPErrors				
Transactions in filters	Transactionsinfilters				
Transactions Started	TransactionsStarted				
Transactions Completed	TransactionsCompleted				
Transactions Waiting	TransactionsWaiting				
Transactions Delayed	TransactionsDelayed				
Transactions On Hold	TransactionsOnHold				
Transactions In Progress	TransactionsInProgress				
Documents Security Only	DocumentsSecurityOnly				

Table 31-21. Supported Metrics (Continued)

Name	Alias	Category	Units	Default Value	Default On
Documents Not Modified	DocumentsNotModified				
Documents Deleted	DocumentsDeleted				
Documents Processed Rate	DocumentsProcessedRate				
Documents Processed	DocumentsProcessed				
Documents Error Rate	DocumentsErrorRate				
Documents Error	DocumentsError				
Documents Success Rate	DocumentsSuccessRate				
Documents Success	DocumentsSuccess				

Configuration help

SharePoint 2007 Search Schema Plugin service

This topic provides information about the Search Schema Plugin service's metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-22. Supported Metrics

Name	Alias	Category	Units	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Error documents	Errordocuments	none	UTILIZATION	false	5 min
Total Documents	TotalDocuments	none	UTILIZATION	true	5 min
Refresh count	Refreshcount	none	UTILIZATION	false	5 min
Total properties processed	Totalpropertiesprocessed	none	UTILIZATION	false	5 min
Duplicate aliases	Duplicatealiases	none	UTILIZATION	false	5 min
Aliases loaded	Aliasesloaded	none	UTILIZATION	false	5 min
Aliases Mapped	AliasesMapped	none	UTILIZATION	false	5 min

Configuration help

SharePoint 2007 Webserver service

This topic provides information about the Webserver service's metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: None

Table 31-23. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Response Time	ResponseTime	none	UTILIZATION	true	5 min

Configuration help

SharePoint 2007 WindowsService service

This topic provides information about the WindowsService service's metrics.

Log Track Supported: No

Config Track Supported: No

Custom Properties Supported: None

Supported Control Actions: start, stop, restart

Table 31-24. Supported Metrics

Name	Alias	Category	Untils	Default Value	Default On
Availability	Availability	Percent	AVAILABILITY	true	10 min
Start Type	StartType	none	UTILIZATION	false	30 min
Memory Size	MemSize	B	UTILIZATION	true	5 min
Resident Memory Size	ResidentMemSize	B	UTILIZATION	false	5 min
Cpu System Time	SystemTime	ms	UTILIZATION	false	10 min
Cpu System Time per Minute	SystemTime1m	ms	UTILIZATION	false	10 min
Cpu User Time	UserTime	ms	UTILIZATION	false	10 min
Cpu User Time per Minute	UserTime1m	ms	UTILIZATION	false	10 min
Cpu Total Time	TotalTime	ms	UTILIZATION	false	10 min
Cpu Total Time per Minute	TotalTime1m	ms	UTILIZATION	true	10 min
Cpu Usage	Usage	percentage	UTILIZATION	true	5 min
Start Time	StartTime	epoch-millis	UTILIZATION	false	30 min
Open Handles	OpenHandles	none	UTILIZATION	false	5 min
Threads	Threads	none	UTILIZATION	true	5 min

Configuration help

Index

C

custom mbean, auto discovery **11**

G

glossary **9**

I

intended audience **9**

J

java, prerequisites and supported environments **12**

jmx, remote system properties **13**

M

mbean attribute, parameters **16**

mbean operation, parameters **19**

mbean server, monitor **12**

mbean server, supported containers **12**

mbean, auto-discovery **14**

mbean, configuration **14**

mbean, export **14**

mbean, naming **15**

mbean, parameters **16**

mbean, facts **15**

mbeans, export **13**

P

plug-ins, Hyper-V **617**

S

sharepoint, supported versions **727**

