

Answer ID 611
Products Introscope Agent AppServer AutoProbe JMX/PMI Adapter JVM AutoProbe Platform Monitors ProbeBuilder Transaction Tracer SQLAgent Enterprise Manager Domains EM Database JDBC API LDAP authentication Management Modules Performance(delete) SmartStor Transaction event database Workstation Actions Alerts Calculator CLW (Command Line Workstation) Dashboard Error Viewer Historical Events Javascript Calculator Reports Transaction Tracer Webstart Webview BRT Adaptor Change Detector Data API EPA Agent Error Detector LeakHunter Microsoft .NET Platform Monitor SNMP adapter
Category Installation/Configuration
Date Created 02/09/2004 07:56 AM
Last Updated 03/28/2008 10:04 AM
Introscope/CEM Ver. 6.0.1

Alerting When Application Server or JVM Shuts Down

Question

How do I create an Alert to notify me if my Application Server or other Java Virtual Machine goes down?

Answer

You can use either a [Calculator](#) or the [Environment Performance Agent](#) (EPAgent) to configure an Alert that will notify you if an application server or Java Virtual Machine (JVM) has gone down.

Calculator Method

Unlike ordinary Metrics, Calculators report zeros when the Metrics on which they are built are not reporting data. Therefore, you will create a Calculator on the [{JVM}|GC Heap:Bytes Total](#) metric. When this metric reports zero, it indicates the JVM instance is down; a value above zero indicates it is up. Your Alert will be based on this Calculator.

To create the Calculator and associated Alert, follow these steps:

1. Right-click [{JVM}|GC Heap:Bytes Total](#) and create a new Metric Grouping.
2. Right-click the [Bytes Total](#) Metric Grouping and create a Calculator.
3. Configure these settings in the Calculator:
 - a. Give it a destination, such as [JVM Monitoring:AppServer JVM](#).
 - b. Check the [Active](#) box.
 - c. Click [Apply](#).

A new metric, [Custom Metric Process|Custom Metric Agent|JVM Monitoring|AppServer JVM](#), will appear in the top-level [Metrics|Custom Metric Host](#) node.

4. Right-click this new Metric and create a Simple Alert.
5. Configure the Alert as follows:
 - a. Set the [Comparison Operator](#) to [<](#).
 - b. Set the [Danger](#) and [Caution Thresholds](#) to [1](#).
 - c. Set [Trigger Alert Notification](#) to [Whenever Severity Changes](#).
 - d. Choose your [Action\(s\)](#).
 - e. Click the [Active](#) checkbox.
 - f. Click [Apply](#).

You will get an Alert when the application server or JVM is shut down or started.

For more detailed instructions on creating Metric Groupings, Calculators, and Alerts, refer to the *Introscope Administrator Guide* or *Introscope Workstation Guide*.

EPAgent Method

You can also use EPAgent to monitor the application server/JVM process. Introscope comes with a script (`processAvailability.pl`) that monitors OS-level processes. The script returns a Metric with a value equal to the number of process names that match the passed-in argument value.

For example, you can pass the script the name of your JVM's process, and it will send the Environment Manager the number of existing processes with that name. You can configure an Alert on this metric to notify you if the value falls below a certain number (presumably 1). The drawback to this method is that if you have more than one JVM running on the same machine, the script does not help you to determine which one has gone down.

Note: Introscope includes Solaris and Windows versions of `processAvailability.pl`. You may need to modify the script for use on another operating system.

For more information about configuring and running the EPAgent, refer to the *Environment Performance Agent User Guide*.