Monitoring Orion Server

eG Innovations Product Documentation

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Total Performance Visibility

Table of Contents

Table of Figures

Chapter 1: Introduction

An Orion Server is a J2EE-compliant application server that is used in many Internet environments. Since a minute or marked deterioration in the performance of this application server can adversely impact the health of the web-based application it supports, it is imperative that the Orion server is monitored continuously, and probable problems detected quickly and accurately.

eG Enterprise offers specialized monitoring model for each of the Orion server. A plethora of metrics relating to the health of the server can be monitored in real-time and alerts can be generated based on user-defined thresholds or auto-computed baselines. These metrics enable administrators to quickly and accurately determine the resource usage, load on the server completes, etc.

This document engages you in an elaborate discussion on how eG Enterprise monitors the Orion server.

Chapter 2: How to Monitor the Orion Server Using eG Enterprise?

eG Enterprise monitors the Orion server in an agent-based manner.

2.1 Managing the Orion Server

The eG Enterprise cannot automatically discover the Orion server so that you need to manually add the component for monitoring. To manage a Orion component, do the following:

1. Log into the eG administrative interface.
2. Follow the Components -> Add/Modify menu sequence in the Infrastructure tile of the **Admin** menu.
3. In the **COMPONENT** page that appears next, select Orion as the **Component type**. Then, click the **Add New Component** button. This will invoke Figure 2.1.

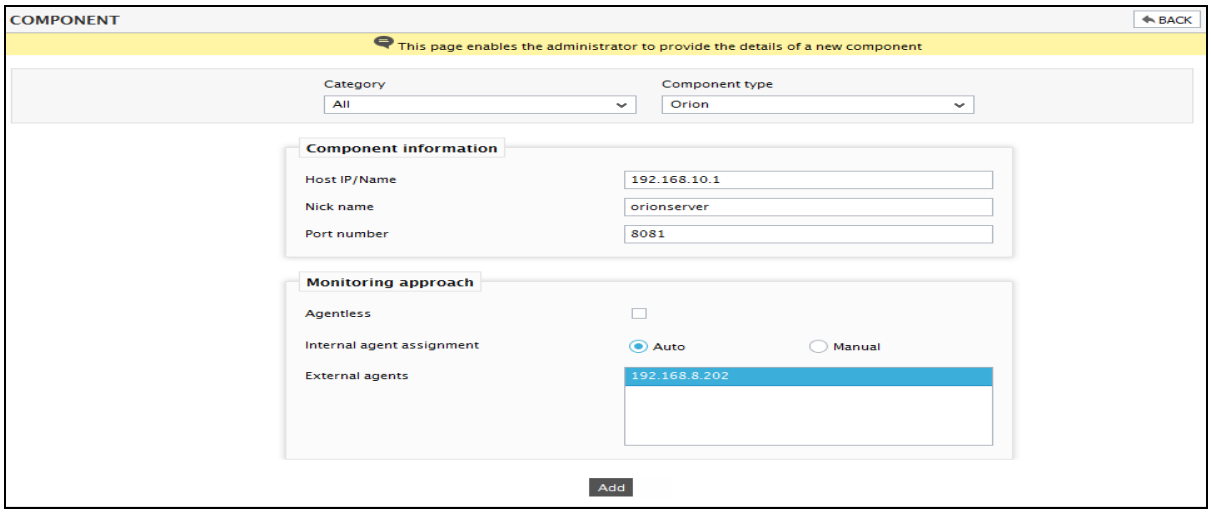

Figure 2.1: Adding Orion server

4. Specify the **Host IP/Name** and the **Nick name** of the Orion server in Figure 2.1. Then, click on the **Add** button to register the changes.
5. When you attempt to sign out, a list of unconfigured tests appears (see Figure 2.2).

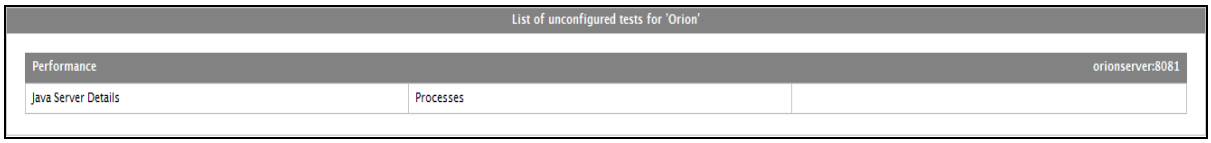

Figure 2.2: List of Unconfigured tests for the Orion server

6. Configure the tests by clicking on the test names in the list of unconfigured tests. To know details on configuring the **Java Server Details** test, refer to Section **3.1.1**.
7. For information on the **Processes** test, refer to *Monitoring Unix and Windows Servers* document.
8. Then, signout of the eG administrative interface.

Chapter 3: Monitoring Orion Servers

eG Enterprise has designed a specialized *Orion* monitoring model (see Figure 3.1), that not only monitors the Orion server top-down, but also detects problems with the server before they occur, automatically triages the problems and assigns priorities to each, and alerts administrators accordingly.

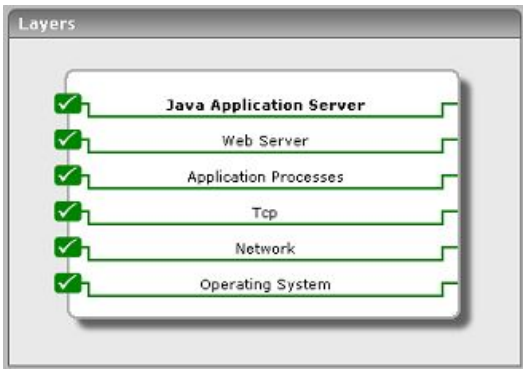

Figure 3.1: Layer model of an Orion/Tomcat server

The following section deals with the top layer alone, as the other layers have already been discussed at length in the *Monitoring Unix and Windows Servers* document.

3.1 The Java Application Server Layer

The tests depicted by Figure 3.2 execute on this layer, and report on the thread and memory usage of the Orion server.

Figure 3.2: Tests associated with the Java Application Server layer

3.1.1 Java Server Details Test

This test reports the performance statistics pertaining to the Java Virtual Machine (JVM) running on an Orion server.

Target of the test : An Orion server

Agent deploying the test : An internal agent

Outputs of the test : One set of results for the Orion server being monitored.

Configurable parameters for the test

Parameter	Description
Test Period	How often should the test be executed.
Host	The host on which the Orion/Tomcat server is running.
Port	The port on which the specified Orion/Tomcat server is listening for HTTP requests.
EGURI	The JavaServerTest makes use of a file named **EgPerfTest.jsp** to generate measures. By default, this file is located in the <EG_INSTALL_DIR>/lib directory. To execute the JavaServerTest, move this file to one of the application directories of the Orion server. On Unix, you can execute the script /opt/egurkha/bin/setup_jserver to do this. While configuring the JavaServerTest, specify the location of the application directory where the **EgPerfTest.jsp** file resides, in the EGURI text box, in the following format: *http://<Ipaddress:portNo/directory name>*. For example, assume that the **EgPerfTest.jsp** is available in the JavaTest directory of the host 192.168.10.57:7077. Therefore, EGURI would be: *http://192.168.10.57:7077/JavaTest*.

Measurements made by the test

Measurement	Description	Measurement Unit	Interpretation
Active threads	Indicates the number of active threads in the JVM.	Number	A high value for this measure is indicative of a high load on the JVM.
Total memory usage	Indicates the total memory available in the JVM.	MB	A high value indicates a high processing capability of the JVM. Watch for increasing memory usage over time, which could indicate

Measurement	Description	Measurement Unit	Interpretation
			a memory leak in one or more applications hosted on the application server.
Free memory	Indicates the unused memory in the JVM.	MB	A very low value of free memory is an indication of high memory utilization on the JVM.

About eG Innovations

eG Innovations provides intelligent performance management solutions that automate and dramatically accelerate the discovery, diagnosis, and resolution of IT performance issues in on-premises, cloud and hybrid environments. Where traditional monitoring tools often fail to provide insight into the performance drivers of business services and user experience, eG Innovations provides total performance visibility across every layer and every tier of the IT infrastructure that supports the business service chain. From desktops to applications, from servers to network and storage, from virtualization to cloud, eG Innovations helps companies proactively discover, instantly diagnose, and rapidly resolve even the most challenging performance and user experience issues.

eG Innovations is dedicated to helping businesses across the globe transform IT service delivery into a competitive advantage and a center for productivity, growth and profit. Many of the world's largest businesses use eG Enterprise to enhance IT service performance, increase operational efficiency, ensure IT effectiveness and deliver on the ROI promise of transformational IT investments across physical, virtual and cloud environments.

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