

CA Unified Infrastructure Management for JBoss



At a Glance

CA Unified Infrastructure Management (CA UIM, formerly CA Nimsoft Monitor) for JBoss can be used to automate the continuous, comprehensive monitoring of JBoss environments. This capability can monitor every component and service deployed on JBoss—featuring support for JBoss clustering technology and many other services typically deployed in SOA environments.

Key Benefits/Results

- **Unified visibility** – Gain visibility into the entire JEMS environment through a single, unified platform that allows you to monitor and control your entire IT environment.
- **Ease-of-use** – Our “plug and play” probe architecture allows for on-demand delivery of monitoring services.
- **Speed time-to-value** – Customers can install CA UIM and deploy monitoring to more than 100 servers in less than three minutes.
- **Reduce cost and complexity** – Eliminates the cost and complexity of maintaining multiple platforms.

Key Features

- **Comprehensive multi-layered JBoss performance monitoring** – Using an intuitive, graphical user interface, administrators can monitor performance of their entire JBoss infrastructure, whether it is comprised of a single application server or a number of server clusters.
- **Intuitive installation and JBoss monitoring configuration** – CA UIM provides point-and-click access to JBoss modules and performance counters, and users can browse all available MBeans and select those that they want to monitor. It features installation and configuration wizards that streamline a range of tasks.
- **Monitoring capabilities designed for early-stage and mature JBoss deployments** – Whether an organization is in the early stages of migration from a traditional application environment or it already has a mature, advanced implementation, CA UIM offers the customizable, intuitive features required for each stage.

Business Challenges

The most widely used Java application server on the market, JBoss Application Server enables customers to develop and deploy enterprise Java applications, Web applications and portals. As a result of this open source product’s widespread adoption, many organizations around the world now constantly rely on JBoss to deliver their most critical applications—those that thousands of users may count on simultaneously to make a purchase or get their work done. How can these organizations verify that users get fast, reliable service? How can administrators gather the disparate information within JBoss environments to get a clear picture of performance issues—and address them before problems occur?

Solution Overview

With CA UIM for JBoss, enterprises and service providers gain a centralized, cohesive view of their JBoss infrastructure. Whether an IT organization wants to monitor a specific network element, or the entire infrastructure on which a mission-critical application is based—including the associated network elements, databases, application servers and more—they can do it all with CA UIM product suite.

This innovative technology also allows JBoss administrators to monitor Java Virtual Machine performance from the perspective of the host operating system, including statistics on CPU utilization, memory and file-handling consumption. Administrators can easily analyze the vast list of metrics provided for the JBoss server and its various services as well as information about how the operating system is managing the load JBoss processes are placing on it.

Critical Differentiators

CA UIM uses a Message Bus Architecture as a core element that is streamlined, comprehensive and efficient. It enables all monitoring components to communicate with each other, without direct program-to-program connections and acts as an abstraction layer between the core system and the monitoring probes. This leads to significant improvements in reliability, scalability and development agility.

Fast results for your environment. Whether an organization is in the early stages of migration from a traditional application environment or it already has a mature, advanced implementation, CA UIM offers the customizable, intuitive features required.

- **Early-stage JBoss deployments.** IT organizations that migrate from a traditional application and database environment soon confront the fact that evaluating the cause of performance problems can be difficult if not impossible within JBoss. CA UIM enables administrators to quickly and easily get fundamental data critical to monitoring, evaluating and troubleshooting performance issues.

▪ **Mature JBoss environments.** CA UIM equips advanced users with sophisticated controls to enhance their deployment, whether to streamline management, fine-tune performance or improve availability. For example, programmers can develop their own custom MBeans (Java classes used to manage resources within the JBoss framework), and use CA UIM to monitor them.

CA UIM products connect to the JBoss Application Server via standard Java Machine Extensions (JMX). CA UIM can gather data from most MBeans in use within a JBoss environment, including standard and custom-developed MBeans.

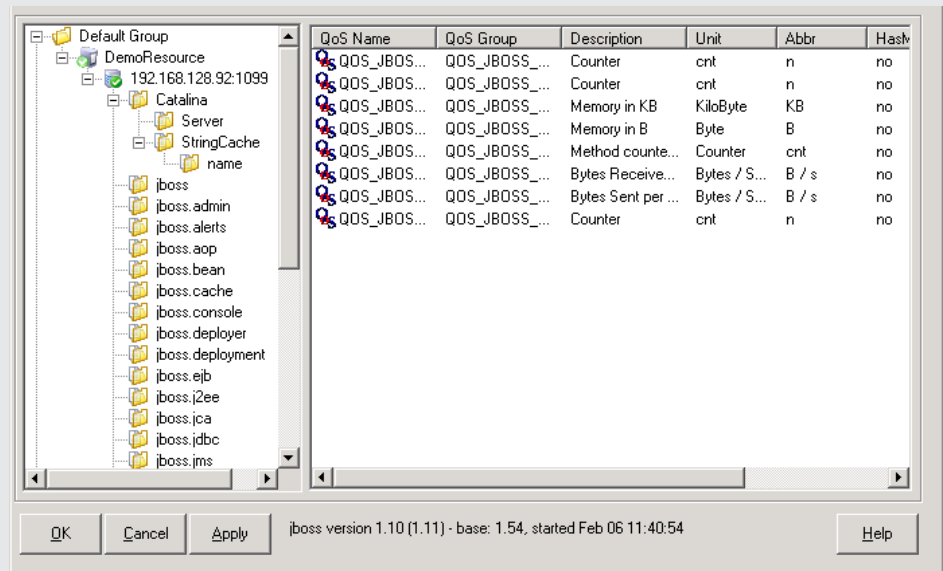
By providing a centralized collection of vital performance data from a range of disparate MBeans, CA UIM enables organizations to gain a wealth of insights into potential performance degrading conditions.

CA UIM collects and stores data from the monitored system, which can be a standalone computer or nodes in a cluster, at customizable intervals. Administrators can easily define alarms to be raised and propagated to CA UIM when specified thresholds are breached.

Fast, intuitive installation and configuration. Getting started with CA UIM is an efficient process in which many essential tasks are automated. CA UIM provides point-and-click access to JBoss modules and performance counters; users can browse all available MBeans and select those that they want to monitor. CA UIM features installation and configuration wizards that streamline a range of tasks, including auto-discovery of available node/server combinations, setting thresholds and configuring alarms.

For more information, please visit ca.com/uim

CA UIM for JBoss provides continuous, comprehensive monitoring of JBoss environments.



Comprehensive multi-layered visibility into all vital performance data. Using an intuitive, graphical user interface, administrators can monitor their entire JBoss infrastructure, whether it is comprised of a single application server or a number of server clusters.

Supported Environments

The following JBoss Application Server entities may be monitored:

- The Java Virtual Machine (JVM)
- Execution queues and threads
- Enterprise Java Beans (EJB)
- Servlets and Java Server Pages (JSP)
- Java Transaction API (JTA)
- Java Database Connection Pools. (JDBC)
- Java Messaging Services (JMS)
- Java Connector Architecture (JCA)

CA UIM supports versions 4.x and 5.x of JBoss Application Servers, and resides on Windows or UNIX in both 32 and 64-bit environments.

- Dependencies: jsr160 as client interface
- Prerequisites: Java 1.5

Related Products

In addition to CA UIM for JBoss, the CA UIM product family includes capabilities for RedHat Linux, Apache Tomcat, IBM WebSphere, BEA WebLogic, Microsoft Active Directory, Citrix, Microsoft Exchange, Microsoft IIS, IBM Lotus Notes, SAP R/3 and other widely deployed applications. These are complemented by database modules for IBM DB/2, IBM Informix, Oracle, Microsoft SQL Server and Sybase ASE; server platform solutions for Windows, UNIX, Linux, AS400/iSeries and Novell Netware; and solutions for managing network infrastructure, including routers, switches and firewalls.

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