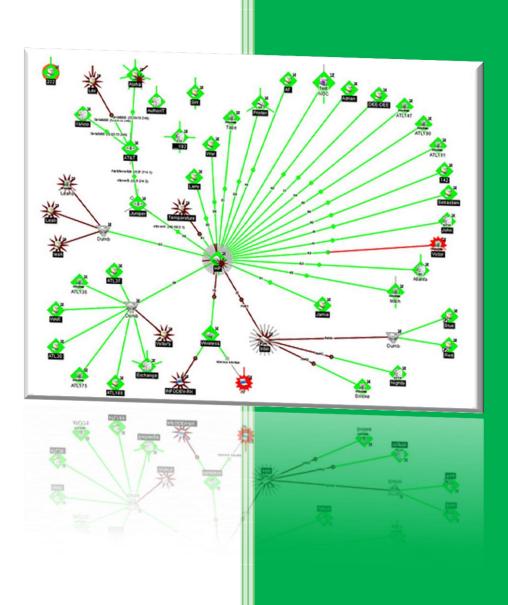


JBoss 6 Server Monitoring in WhatsUp Gold Console





Introduction:

Since the release of JDK 5 the JVM uses JMX technology to provide information on performance and resource consumption of the applications running in the JVM. Together with the JConsole tool we can use this information to monitor our applications and locate problems. To maintain the JBoss server in good health, it's important to have an overview on server and application performances. Therefore, Jconsole is very suitable to monitor JBoss Server.

However, in order to centralize monitoring informations, we would like to integrate JBoss Server monitoring within WhatsUp Gold. We will, therefore, in this document describe a solution which allows monitoring a JBoss Server from your WhatsUp Gold console but with the same purpose as the Jconsole.

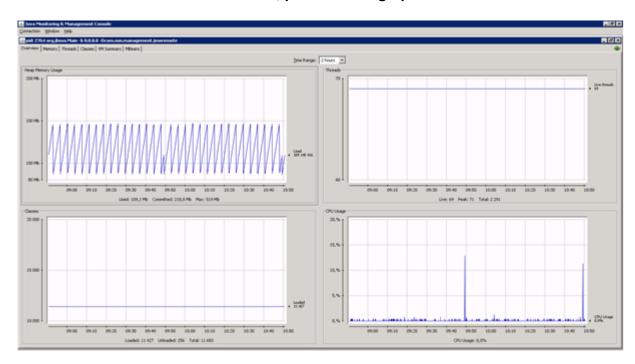
JBoss 6 Monitoring by Jconsole

Joonsole allows monitoring a lot of parameters on JBoss Server:

- Memory
- Threads
- Classes
- VM Summary
- Mbean diagnostics

Some remote server performances graphs are available on the Home page of Joonsole.

Jconsole, performance graphs





Journal allow accessing to all MBean attributes. In the following example, we will configure a thread count monitor on Journal attributes.

JMX MBean View Back to Agent Refresh MBean View Fri Aug 26 16:43:19 CEST 2011 2k3us-JBoss **Object Name Filter** Domain jboss.system Name ServerInfo type Remove Object Name Filter Java Class org.jboss.system.server.ServerInfo Description Management Bean. AdventNet JMImplementation Description Attribute Value Attribute Name Access Type com.sun.management hornetq MBean java.lang ActiveThreadCount R 69 java.lang.Integer Attribute java.util.logging jboss MBean jboss.alerts AvailableProcessors R java.lang.Integer Attribute. • jboss.aop • jboss.cache MBean OSArch R java.lang.String x86 jboss.classloader Attribute. jboss.deployment MBean jboss.ejb java.lang.Long MaxMemory R 518979584 Attribute. jboss.j2ee jboss.jacc MBean jboss.jca HostAddress R java.lang.String 192.168.0.136 Attribute. jboss.jdbc • jboss.jta MBean • jboss.management.local JavaVersion R java.lang.String 1.6.0 25 Attribute. jboss.monitoring jboss.pojo MBean OSVersion R java.lang.String 5.2 jboss.remoting Attribute.

R

java.lang.String MBean

Sun Microsystems Inc.

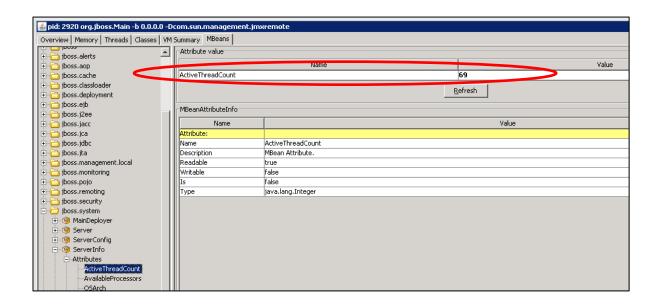
Mbean attributes in Jboss web interface

We will access this attribute in Jconsole,

lavaVendor

jboss.security

jboss.system





Monitoring JBoss Server from WhatsUp Gold

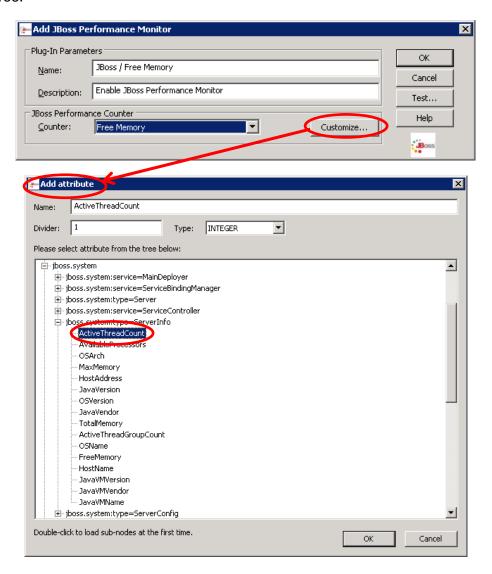
In WhatsUp gold, an Active Monitor and a Performance Monitor are available to monitor JBoss Server. It uses the same principles as Jconsole and offers the same possibilities. More, Active Monitor allows implementing thresholds and generating alerts.





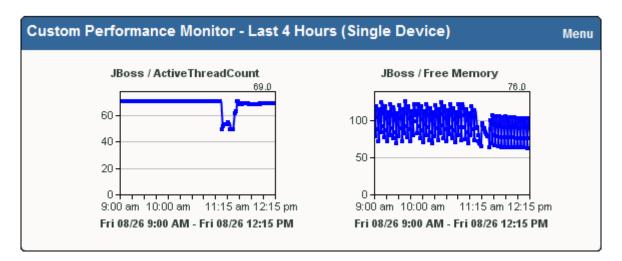
Before using JBoss Active Monitor, you need to deploy collector.sar component to your JBoss server by extracting and copying collector.sar directory to your deploy folder. In most case, the full path is <Path to your jboss>\server\default\deploy.

Like in the previous example, we will implement a thread count monitor on WhatsUp Gold. We will choose performance monitor, and search ActiveThreadCount attribute in JBoss MBean tree.

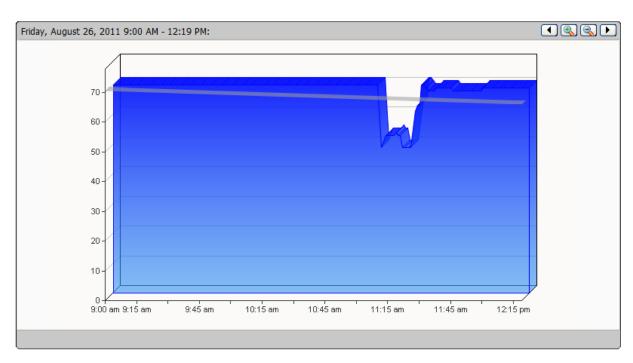




After the establishment of your Performance Monitor, you can add the performance graphs in the web interface, like in the following example.



Detailed graph Thread Count



WhatsUp Gold provides a good monitoring solution for JBoss Server. Performance Monitor allows integrating same monitoring functionalities as Jconsole, and this offers the possibility to aggregate all monitoring informations in a single console. More, the Active Monitor allows implementing alerts on different attributes of JBoss. JBoss Active and Performance Monitor are available at:

http://www.orsenna.com/store/