JBOSS OPERATIONS NETWORK (JBOSS ON)

WHAT IS IT?

An integrated management platform that simplifies the development, testing, deployment and monitoring of your JBoss Enterprise Middleware. From the JBoss Operations Network console you can inventory resources from the operating system to applications. Control and audit your application configurations to standardize deployments. Manage, monitor and tune your applications for improved visibility, performance and availability.

WHAT DOES IT DO?

With your JBoss ON managment server and agents, users gain centralized control of their JBoss Enterprise Application Platform and JBoss Enterprise SOA Platform environments. By providing the ability to auto-discover resources from the operating system to deployed applications helps users understand what they really have. Operations is enabled by being able to automate tedious and repetitive tasks. The JBoss platform can be kept up-to-date via connections to the JBoss Customer Service Portal, so users are ensured of having the latest patches available and easily deployed. Finally, JBoss ON allows you to make sure everything is running smoothly with your deployed applications and underlying JBoss infrastructure.

WHY SHOULD I CARE?

The application management life cycle can be difficult to manage. JBoss ON allows you to manage an enterprise application environment easily. Consistent application deployment and configuration results in a more secure environment with better performance. Check your application's health and generate diagnostic and historical data that can drive improvements or help resolve technical issues. And JBoss ON has open standards support and plug-in framework, so your application management platform is extensible, customizable, and future-proofed. JBoss ON delivers operational dependability and manageability along with the reduced cost of open source.

OVERVIEW

With JBoss ON's centralized (server-agent) design, you can coordinate the many stages of the application life cycle and expose a cohesive view of your middleware components through complex environments. User will also improve operational efficiency and reliability with transparent views into production availability and performance. Effectively manage configuration and roll-out of new applications across complex environments with a single, integrated tool.

JBoss ON allows businesses to inventory, administer, deploy, and update JBoss-based middleware applications from a single console. Enterprise access control offers the necessary levels of visibility, access, and auditing to maintain systems and share vital information and statistics. A customizable portal quickly delivers critical information to the right audiences.

JBoss ON's monitoring solution has advanced monitoring capabilities for the JBoss platforms, related operating systems, and web-tier resources. You can identify and predict issues before your customers tell you about them and pinpoint the exact cause for the issue more quickly and accurately. All in all, you can minimize downtime and the associated costs. Users can also perform control actions such as starting, stopping, or re-starting applications or servers — all through the same console.

Actions include:

- Auto-discover application resources:
  Operating systems, applications and services
- From one console, store, edit and set application configurations
- Start, stop, or schedule an action on an application resource
- Remotely deploy applications
- Monitor and collect metric data for a particular platform, server, or service
- Alert support personnel based upon application alert conditions
- Assign roles for users to enable fine-grained access control to JBoss ON services

JBOSS OPERATIONS NETWORK DASHBOARD
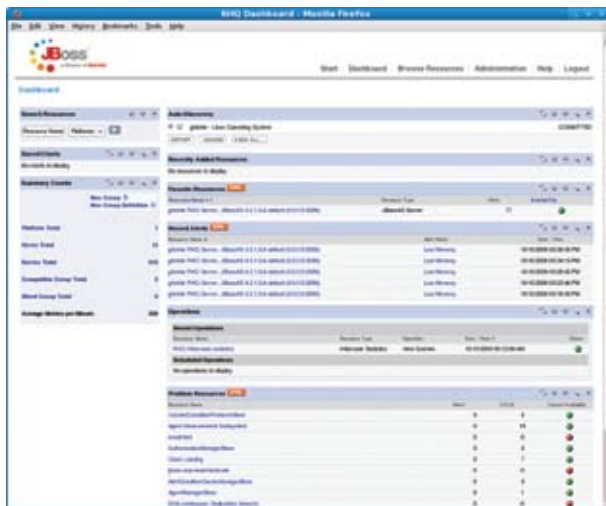
JBOSS ON MANAGEMENT

JBoss ON Management Server

The JBoss ON Management Server is the command center for managing your JBoss Middleware environment. Tight integration with both the JBoss Network Customer Service Portal (JBoss CSP) and JBoss ON agents allow it to act as the central repository for content updates and raw management data. The JBoss ON Management Server provides a rich graphical interface as your management console. The JBoss ON Management Server acts as the central messaging bus for all monitoring, inventory and control events with full audit capabilities. It also manages the triggers and actions used for alerting.

Features include:

- Robust web interface
- User logins authenticated through LDAP
- Roles for fine-grained administrative access control
- High Availability support
  - Management server clustering
  - Agent synchronization after lost communication
  - Automatic agent failover to another available server
- Simple to install and configure

Understand What You Have

Inventory capabilities in JBoss ON catalogs IT assets spanning platforms (Linux, HP-UX, Sun® Solaris, Microsoft® Windows, AIX), servers (Apache, Apache Tomcat, JBoss EAP, JBoss ESB), and services (EJB, Message Driven Beans, data sources, et. al.). A central repository of resources that JBoss ON manages and monitors is generated from information collected by the agents. Creation of logical topologies made up of resources can now provide improved visibility and control of your business applications. With the JBoss ON inventory capabilities, your business can:

- Auto-discover with agents or use manual discovery options
- Discover by file scan, registry scan or process table scan
- Organize resources in logical groups and topologies
- Create dynamic resource groups based on rules

JBOSS OPERATIONS NETWORK MONITORING MODULE

Enable Operations

JBoss ON administration capabilities provide a single location for performing key control functions. Functions for logical groups of components can be ordered, initiated on-demand, or scheduled for a later time. And an audit trail ensures that you'll know when administration functions took place and who made them happen. With the administration capabilities with JBoss ON, your business can:

- Start, stop and re-start applications across Enterprise Application and SOA platforms
- Provide low-level access to configuration files
- Versioning for configuration files
- Schedule operations in parallel or in serial (rolling) format
- Roll-back to previous versions

Stay Up-to-date

Keeping your JBoss Middleware and applications current is easy with JBoss ON. The solution can proactively notify subscribers of new patches and software updates relevant to their environment, and then allow for easy deployment. Application updates can now be handled in a much more organized and timely manner through versioning. And all activities can be audited for compliance purposes. Using JBoss ON content controls, your business can:

- Easily review, reject, or apply updates
- Apply updates to individual components
- Provide application versioning
- Deploy applications in a repeatable, consistent manner

Make Sure Your Environment is Healthy

The JBoss ON Monitoring for Enterprise Application Platform and Enterprise SOA Platform upgrades provide out of the box and extensible monitoring of hundreds of metrics in your JBoss Middleware environment. The metrics are constantly being updated and modeled based on their behavior in the environment. This allows you to define alerts relevant to the actual behavior of your infrastructure. Baselines detect out-of-band problems, allowing you to quickly identify resources that require attention. In addition, the monitoring upgrade provides a historical view of what was happening in the environment at the time of a fault. You can also define alerts based upon pre-defined thresholds and, if desired, automate control actions to correct faults. Graphing and charting capabilities for trend analysis are also included. With the JBoss ON monitoring upgrade, your business can:

- Pre-select, configure, and customize statistics
- Send SNMP or email alerts
- Initiate control actions on alerts
- Take baseline measurements and detect problems
- Provide a full alert audit trail
- Monitor at the file system and directory level
- Automatic pruning of historical data

SUPPORTED PLATFORMS

HARDWARE	ARCHITECTURE	OPERATING SYSTEM
Intel / AMD	x86_32 and x86_64	Red Hat Enterprise Linux AS 2.1 or later
Intel / AMD	x86_32 and x86_64	Microsoft Windows (XP, 2000, 2003, Vista)
Intel / AMD / SPARC	x86_32 and x86_64	Solaris (8, 9, 10), SuSE (8, 9, 10)
IBM	32-bit	AIX 5.2
HP	PA, Itanium	HP-UX 11.x

Note: other platforms that support Java5 require that native support be disabled.
Java: JDK 5, JDK 6, JRockit 1.5.0_14+, Apple 1.5

SYSTEM REQUIREMENTS

Memory	512 MB minimum, 1 GB maximum
Storage	10 GB minimum, 40 GB maximum
External Database	Postgres 8.2.4 and higher, Oracle 10g and 10gR2

SUPPORTED SERVERS AND PLATFORMS

SERVER/PLATFORM	VERSION
JBoss Application Server	3.2.3+, 4.x
JBoss Enterprise Application Platform	4.2, 4.3, 5.x
Apache	1.3, 2.x
Enterprise SOA Platform (ESB)	4.3

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