

JBoss Operations Network

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Agenda

- Overview of JON
- What's New in JON 3.0
 - Changes in Prerequisites
 - New GUI
 - New Alerting Features
 - RHQ Server Sync
 - New Plugin Packs
 - Deploying Bundles to Servers
 - Drift
 - CLI Script Alert Notifications
- Demo

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JBoss Managed Solutions

- Deploy, manage and monitor JBoss middleware, applications and services with JBoss Operations Network
 - Simplify application release management with support for application provisioning and patching
 - Support IT governance objectives with enterprise-grade configuration management and run time SOA governance
 - Ensure application services levels with performance and availability monitoring



DEPLOY Provisioning Application Deployment Patching



MANAGE

Discovery & Inventory Configuration Management SOA Governance



MONITOR

Performance Availability Alerts & Notifications





Provisioning & Deployment with JBoss Operations Network



DEPLOY

Customer Challenges

- Streamlining and standardizing middleware & application deployments and updates
- Assessing impact of deployments and updates on application performance
- Managing change and quickly addressing issues if they occur
- Keeping up with latest JBoss updates and patches across environments

How JBoss ON Can Help

- Quickly and consistently deploy JBoss middleware, applications & patches to groups of platforms or servers
- Correlate deployments and updates to application performance history
- Maintain history of all deployments and rollback to previous versions if necessary
- Maintain up-to-date inventory of JBoss middleware and bind servers to Red Hat Customer Portal to get patches & update notifications

Configuration Management with JBoss Operations Network



MANAGE

Customer Challenges

- Getting visibility into what is running across different environments
- Updating JBoss server configurations across a large number of servers, multiple domains and different versions
- Maintaining an audit trail of configuration changes and managing configuration drift
- Correlating configuration changes to application performance

How JBoss ON Can Help

- Get an up-to-date inventory of JBoss middleware, applications and services
- Store, manage and easily update application configurations
- Track configuration change history and rollback changes if needed
- Monitor and alert on configuration changes and configuration drift
- View impact of configuration changes on application performance
- Execute automated operations on remote servers and services

Monitoring Performance & Availability with JBoss Operations Network



MONITOR

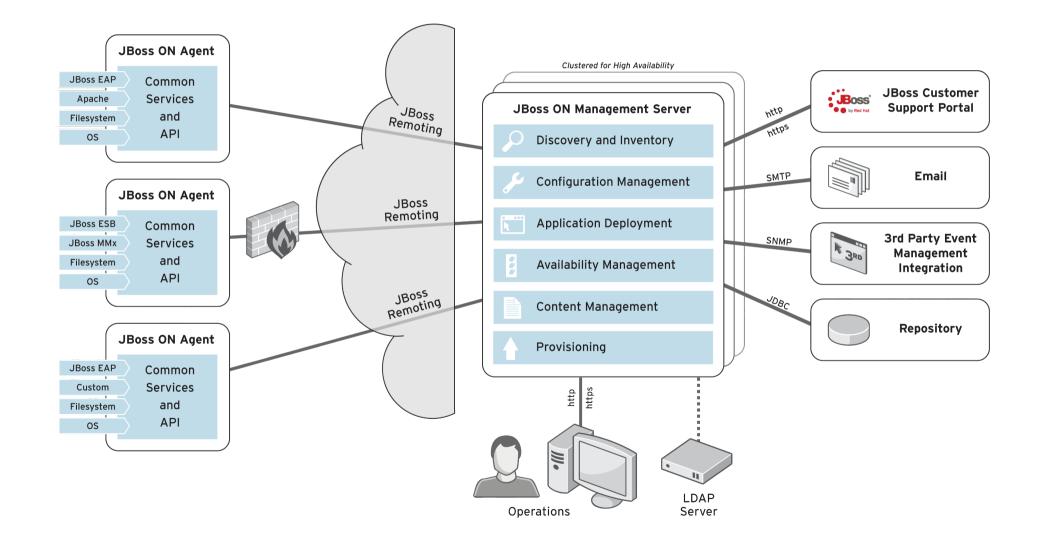
Customer Challenges

- Determining if applications are meeting service levels for performance & availability
- Receiving timely notifications when failures occur
- Getting adequate information to troubleshoot issues and reducing mean time to repair
- Addressing application issues before they impact end users

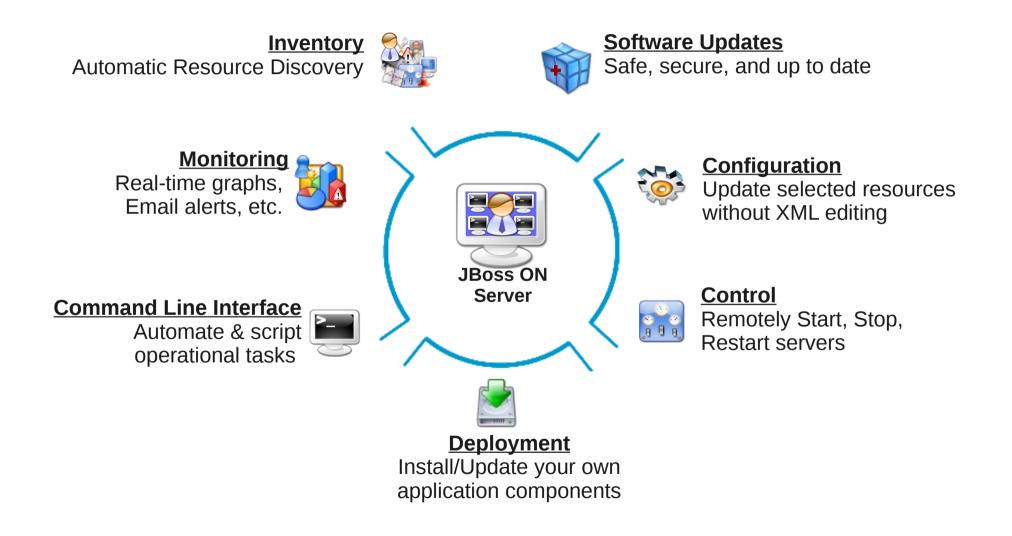
How JBoss ON Can Help

- Collect key metrics on application performance & availability
- Determine if service levels are being met and analyze historical performance trends
- Generate alerts when issues occur and notify users or groups
- Execute operations or scripts in response to an alert to address issues
- Integrate alert events/notifications with existing management consoles

JBoss Operations Network Architecture Overview



JBoss Operations Network for EAP Solution Overview





What's New in JON 3.0?

Changes in Prerequisites

- Changes in Supported JRE, Database, and Browser Versions(Note: IE 8/JDK 1.6)
- For Details, See http://www.redhat.com/jboss_on/requirements/



New GUI

- GWT
 - Pure AJAX
 - JSF/Struts IFrames
- SmartGWT
- Wizards
- Other Changes

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New Alerting Features

- Server API Script Alert Sender
- Call-Time Alert Conditions
- Numeric Range Alert Conditions



Threshold Conditions

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RHQ Server Sync

- Import/Export of System Settings and Metric Templates
- No GUI CLI Only



CLI Export Example

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[glamperi@glamperi bin]$ ./rhq-cli.sh
RHQ - RHQ Enterprise Remote CLI 4.2.0.JON300.GA
unconnected$ login rhqadmin rhqadmin
Remote server version is: 3.0.0.GA (e23441b:1ca6ad9)
Login successful
rhqadmin@localhost:7080$ var x = SynchronizationManager.exportAllSubsystems();
rhqadmin@localhost:7080$ x
ExportReport:
               errorMessage:
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f8bd0d}
rhqadmin@localhost:7080$ saveBytesToFile(x.exportFile, 'export.xml.qz');
rhgadmin@localhost:7080$ guit
[glamperi@glamperi bin]$ cd ..
[glamperi@glamperi rhq-remoting-cli-4.2.0.JON300.GA]$ ls
bin conf export.xml export.xml.gz lib logs samples
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[glamperi@glamperi rhq-remoting-cli-4.2.0.JON300.GA]\$ gunzip export.xml.gz

New Plugin Packs

- BRMS
- EAP6/mod_cluster Preview



mod_cluster plugin

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JBoss ON 3.0 Bundle enhancements

- 2.4.x
 - Deploy only to a compatible group of platforms
 - Deploy directory always absolute
- 3.0
 - Deploy only to a compatible group of bundle-supporting types
 - EAP 4, 5 app servers
 - Deploy directory relative to base directory (install or AS config)

Creating a Group on Bundle Deploy

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JBoss ON 3.0 Drift Management

- Detect unplanned configuration changes or "configuration drift"
- Prevent/Shorten/Explain application failures
- Ensure configuration compliance for a resource
- Alert on detected configuration drift
- Identify differences to help return to expected configuration
- Track changes with snapshots
 - \circ Records every file add, remove, edit for monitored
 - directories
 - All changes are tracked in change sets and different
 - versions
- CLI enabled

Drift Management Snapshot Comparison

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JBoss ON 3.0 CLI Alert Sender

- Alert notification executes CLI script (on JON server)
- Script seeded with "alert" variable for the relevant alert

Alert Notification

JBoss ON: Resource Alerts D			_ N
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JBoss ON: Resource Alerts Def			
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Questions?

