



Rethinking Information Architecture for JON

DRAFT 1 - January 2012

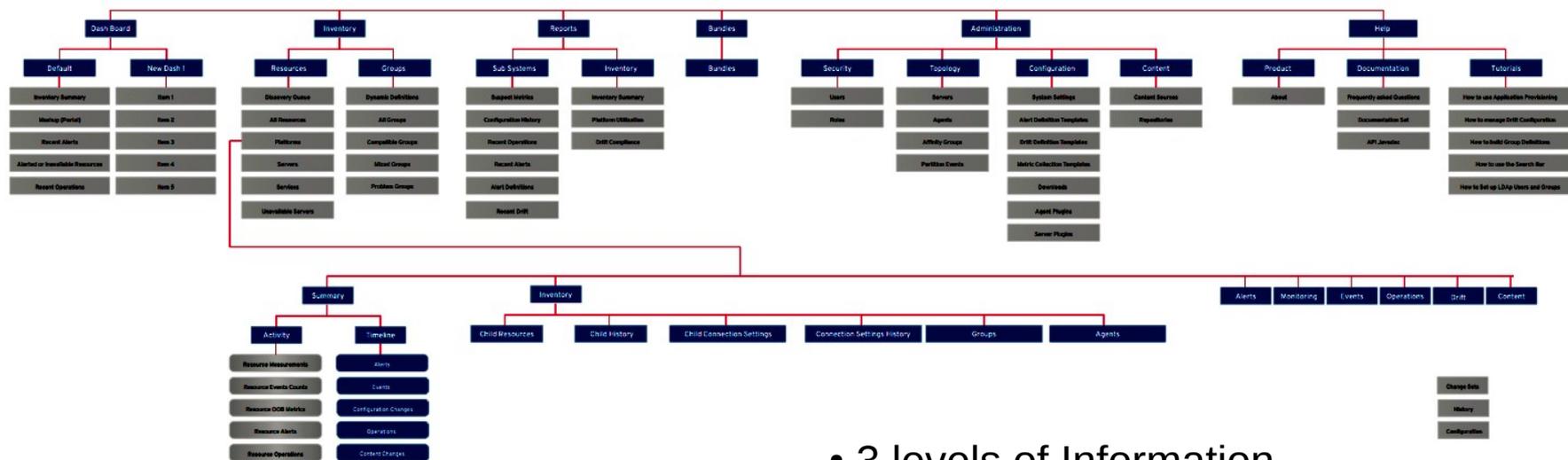


Goals

- Simplify for usability – reduce information overload
- Reflect the chief use cases of the product in the UI
 - Group related tasks together
 - Reorganize/ eliminate unrelated stuff within a given context
- Separate the administration of JON from the functional tasks accomplished with the JON tool

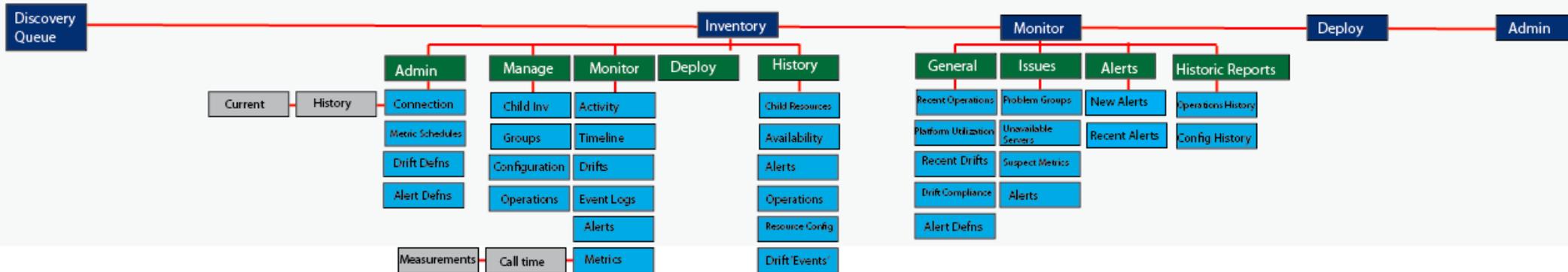
Sitemap of Current JON Tool

JBOSS - JON



- 3 levels of Information
- Leaf level is pretty deep
 - Lots of information is buried in fewer categories
 - In any given category, there is information overload

Proposed Sitemap for JON Tool

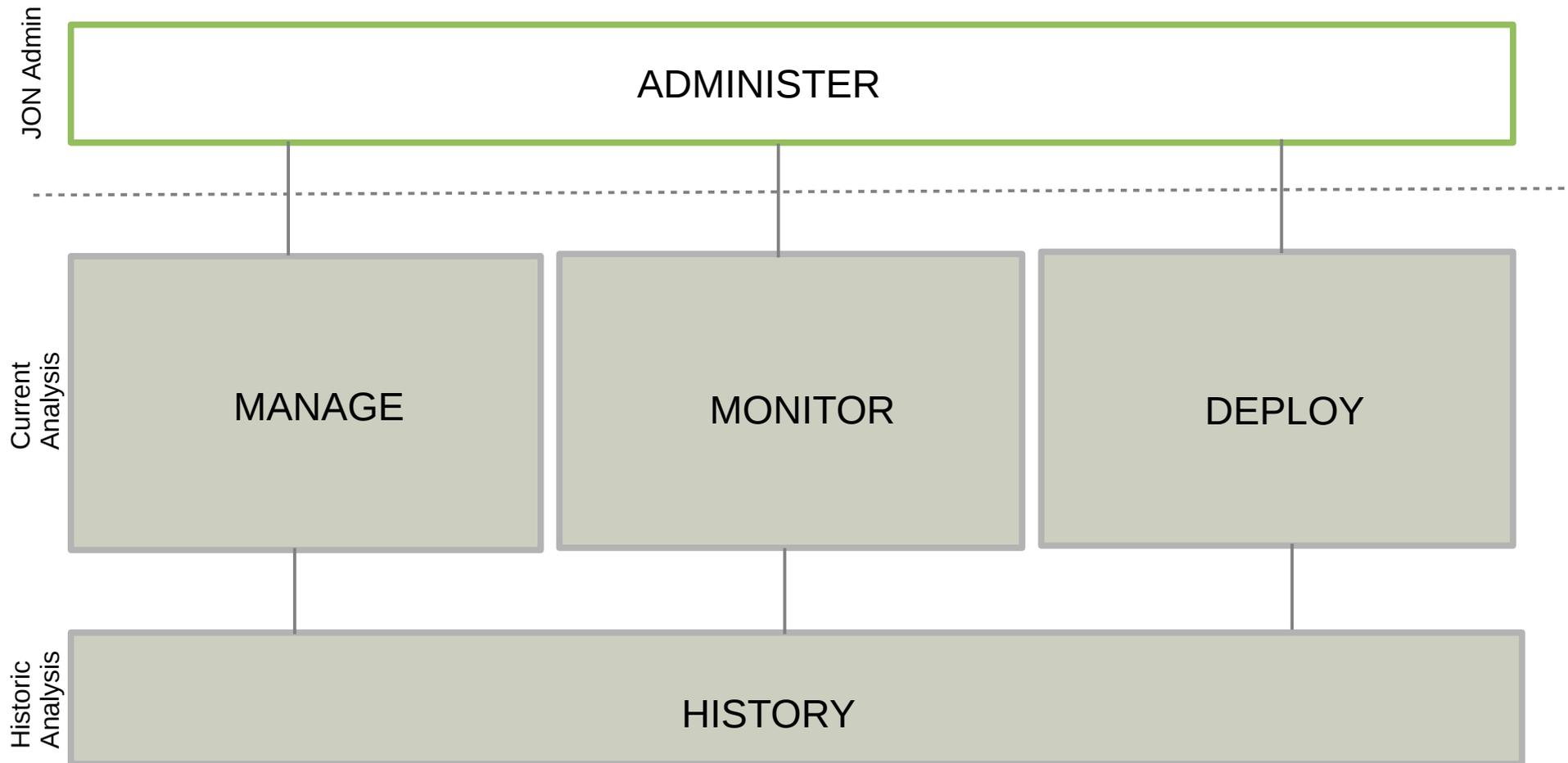


- Added another level of Information – 4 levels
- Increased members in higher levels and decreased members at leaf levels
 - More choices presented early
 - Fewer choices as you narrow in on what you want to focus
- Information modeled after use cases

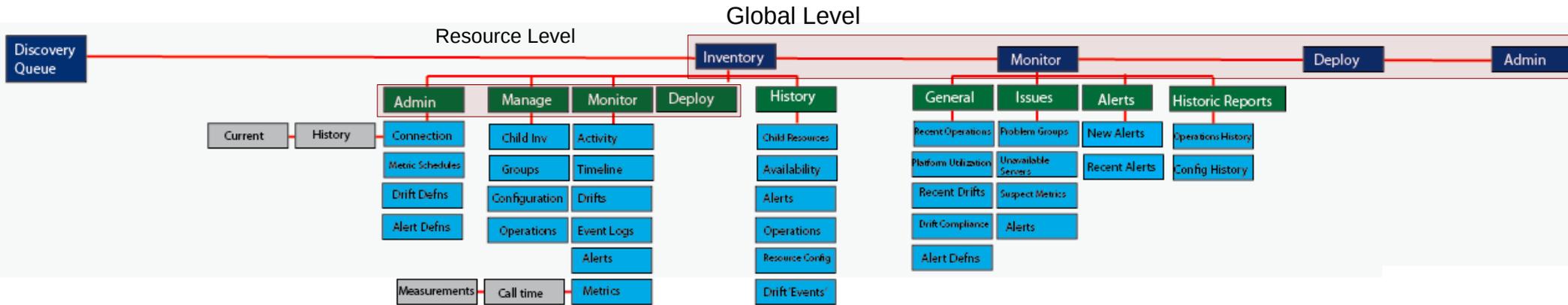


Overview

Information organized into 'Modes' by the chief overarching use cases at Global & Resource specific levels



Proposed Sitemap for JON Tool



Chief Use cases are mirrored at Global and Resource specific levels - JON admin, Manage, Monitor and Deploy



Global architecture - Dashboard

RHQ

DASHBOARD

DISCOVERY QUEUE

INVENTORY

MONITOR

DEPLOY

ADMIN

admin | Logout

Default
Edit Mode | New Dashboard

Inventory Summary

- Platform Total : 1
- Server Total : 17
- Service Total : 349
- Compatible Group Total : 3
- Mixed Group Total : 1
- Group Definition Total : 0
- Average Metrics per Minute : 29

Resource Metric Graph

CPU 6

System Load Percentage of this CPU running in system mode

Recent Alerts

Creation Time	Name	Condition Text	Priority	Status	Resource	Ancestry
No results found using specified criteria.						

Matching Rows: 0 (selected: 0)

Alerted or Unavailable Resources

Resource	Ancestry	Alerts	Availability
eth1	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth2	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth3	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth4	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth5	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth6	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth7	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
eth8	sun-x8420-01.rhts.eng.bos.redhat.com	0	!
Total:		10	

Recent Operations

Date Submitted	Operation	Requestor	Status	Resource	Ancestry
Feb 15, 2012 10:03:44 PM	Shutdown	rhqadmin	!	AS sun-x8420-01.rhts.eng	sun-x8420-01.rhts.eng.bos.redh

7

Global architecture – Discovery Queue

The screenshot shows the RHQ (Red Hat Quarkus) web interface. The top navigation bar includes a logo, the text 'RHQ', and several menu items: 'DASHBOARD', 'DISCOVERY QUEUE' (highlighted in blue), 'INVENTORY', 'MONITOR', 'DEPLOY', and 'ADMIN'. On the right side of the navigation bar, the user is logged in as 'admin' with a 'Logout' link.

The main content area is titled 'Autodiscovery Queue'. It features a table with the following columns: 'Resource Name', 'Resource Key', 'Resource Type', 'Description', 'Inventory Status', and 'Discovery Time'. The table is currently empty, displaying the message 'No items to show'.

At the bottom of the interface, there is a control bar with several buttons: 'Import', 'Ignore', 'Unignore', a 'Show:' dropdown menu set to 'New', 'Select All', 'Deselect All', and 'Refresh'.



Global architecture – Inventory

RHQ

DASHBOARD
DISCOVERY QUEUE
INVENTORY
MONITOR
DEPLOY
ADMIN

admin | Logout

▼ RESOURCES

- All Resources
- Platforms
- Servers

▼ GROUPS

- All Groups
- Compatible Groups
- Mixed Groups
- Dyna Groups

Name	Ancestry	Description	Type	Version	Availability
AS sun-x8420-01.rhqs.eng.bos.redhat.com RHQ Server	sun-x8420-01.rhqs.eng.bos.redhat.com	JBoss Application Server 4 hosting the RHQ Server	JBossAS Server	AS 4.2.3.GA	✓
postgres	sun-x8420-01.rhqs.eng.bos.redhat.com	Postgres relational database server	Postgres Server	8.1.9	❌
RHQ Agent	sun-x8420-01.rhqs.eng.bos.redhat.com	RHQ Management Agent	RHQ Agent	4.2.0.JON.3	✓
/root/jboss-as-7.0.2.Final	sun-x8420-01.rhqs.eng.bos.redhat.com	Standalone AS7 server	JBossAS7-Standalone	7.0.2.Final	✓
10.16.64.249:80	sun-x8420-01.rhqs.eng.bos.redhat.com	Apache Web Server	Apache HTTP Server	2.2.15	✓
Embedded JBossWeb Server	AS sun-x8420-01.rhqs.eng.bos.redhat.com RHQ Server < sun-x8420-01.rhqs.eng.bos.redhat.com	JBossAS-Embedded JBossWeb Web Server (jboss-web.deployer)	Embedded Tomcat Server	2.0.0.GA_CI	✓
JVM	AS sun-x8420-01.rhqs.eng.bos.redhat.com RHQ Server < sun-x8420-01.rhqs.eng.bos.redhat.com	JVM of the JBossAS	JBoss AS JVM	1.5.0_22	✓
datasources	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhqs.eng.bos.redhat.com	Datasources subsystem	Datasources		✓
resource-adapters	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhqs.eng.bos.redhat.com		ResourceAdapters		✓
infinispn	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhqs.eng.bos.redhat.com		Infinispn		✓
security	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhqs.eng.bos.redhat.com		Security		✓
web	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhqs.eng.bos.redhat.com		JBossWeb		✓



Global architecture – Monitor (Alerts)



RHQ

DASHBOARD

DISCOVERY
QUEUE

INVENTORY

MONITOR

DEPLOY

ADMIN

admin | Logout

ALERTS

ISSUES

GENERAL REPORTS

HISTORIC REPORTS

Current | Recent

Priority Filter : High, Medium, Low

Creation Time	Name	Condition Text	Priority	Status	Resource	Ancestry
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No items to show.



Global architecture – Monitor (Issues)

DASHBOARD
DISCOVERY QUEUE
INVENTORY
MONITOR
DEPLOY
ADMIN

admin | Logout

ALERTS
ISSUES
GENERAL REPORTS
HISTORIC REPORTS

Favorites ▾
Message Center

Issues

- Unavailable Servers
- Problem Groups
- Suspect Metrics

Name	Ancestry	Description	Type	Version	Availability
RHQ Agent	tyan-gt24-04.rhds.eng.bos.redhat.com	RHQ Management Agent	RHQ Agent	4.2.0.JON3I	!
postgres	tyan-gt24-04.rhds.eng.bos.redhat.com	Postgres relational database server	Postgres Server	8.4.9	!
AS tyan-gt24-04.rhds.eng.bos.redhat.com RHQ Server	tyan-gt24-04.rhds.eng.bos.redhat.com	JBoss Application Server 4 hosting the RHQ Server	JBossAS Server	AS 4.2.3.GA	!
JVM	RHQ Agent < tyan-gt24-04.rhds.eng.bos.redhat.com	VM of plugin container	RHQ Agent JVM	1.6.0_24	!
JBoss Cache subsystem	AS tyan-gt24-04.rhds.eng.bos.redhat.com RHQ Server < tyan-gt24-04.rhds.eng.bos.redhat.com	JBoss Cache subsystem	JBossCacheSubsystem	1.0	!
Embedded JBossWeb Server	AS tyan-gt24-04.rhds.eng.bos.redhat.com RHQ Server < tyan-gt24-04.rhds.eng.bos.redhat.com	JBossAS-Embedded JBossWeb Web Server (jboss-web.deployer/)	Embedded Tomcat Server	2.0.0.GA_CI	!
JVM	AS tyan-gt24-04.rhds.eng.bos.redhat.com RHQ Server < tyan-gt24-04.rhds.eng.bos.redhat.com	JVM of the JBossAS	JBoss AS JVM	1.6.0_24	!

Uninventory
Refresh
Total Rows: 7 (selected: 0)



Global architecture – Monitor (Reports)

The screenshot shows the RHQ Monitor interface. At the top, there is a navigation bar with tabs for DASHBOARD, DISCOVERY QUEUE, INVENTORY, MONITOR (selected), DEPLOY, and ADMIN. The user is logged in as 'admin'. Below the navigation bar, there are tabs for ALERTS, ISSUES (selected), GENERAL REPORTS, and HISTORIC REPORTS. A search bar is present above the main table. The main table lists various system components with columns for Name, Ancestry, Description, Type, Version, and Availability. Two callout boxes are overlaid on the table:

- Reports (Will display all non-historic reports here – e.g recent operations, Platform utilization, Alert Definitions etc.)** - This callout points to the 'GENERAL REPORTS' tab.
- Reports (Will display all historic reports here – Configuration History, Operations History)** - This callout points to the 'HISTORIC REPORTS' tab.

Name	Ancestry	Description	Type	Version	Availability
RHQ Management Agent	tyan-g	RHQ Management Agent	RHQ Agent	4.2.0.JON3K	!
Postgres relational database server	tyan-g	Postgres relational database server	Postgres Server	8.4.9	!
JBoss Application Server 4 hosting the RHQ Server	tyan-g	JBoss Application Server 4 hosting the RHQ Server	JBossAS Server	AS 4.2.3.GA	!
VM of plugin container	RHQ A	VM of plugin container	RHQ Agent JVM	1.6.0_24	!
JBoss Cache subsystem	AS ty	JBoss Cache subsystem	JBossCacheSubsystem	1.0	!
JBossAS-Embedded JBossWeb Web Server (jboss-web.deployer/)	tyan-g	JBossAS-Embedded JBossWeb Web Server (jboss-web.deployer/)	Embedded Tomcat Server	2.0.0.GA_CI	!
JVM of the JBossAS	AS tyan-gt24-04.mts.eng.bos.redhat.com	JVM of the JBossAS	JBoss AS JVM	1.6.0_24	!

At the bottom of the interface, there are buttons for 'Uninventory', 'Refresh', and 'Total Rows: 7 (selected: 0)'.



Global architecture – Deploy

The screenshot displays the RHQ (Red Hat Quay) interface, specifically the Deploy section. The top navigation bar includes the RHQ logo, a search icon, and menu items for DASHBOARD, DISCOVERY QUEUE, INVENTORY, MONITOR, DEPLOY (highlighted in blue), and ADMIN. The user is logged in as 'admin' and can click 'Logout'. On the right side of the navigation bar, there are links for 'Favorites' and 'Message Center'.

The main content area is titled 'Bundles' and features a table with the following columns: Name, Description, Latest Version, and Versions Count. The table is currently empty, displaying 'No items to show.' in the center. Below the table, there are three buttons: 'New', 'Delete', and 'Deploy'. At the bottom right of the interface, there is a 'Refresh' button and a status indicator showing 'Total Rows: 0 (selected: 0)'.

On the left side of the interface, there is a sidebar with a 'Bundles' section (expanded) and a 'Repositories' section (collapsed).



Global architecture – Admin

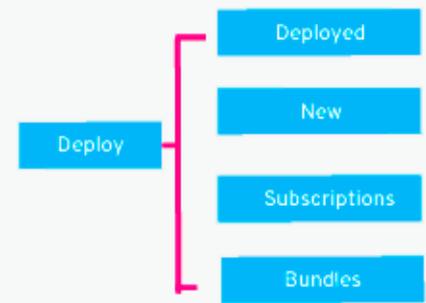
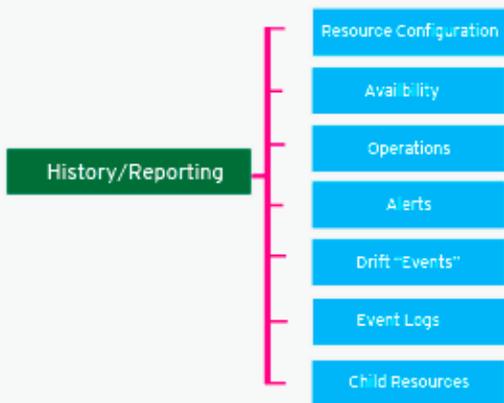
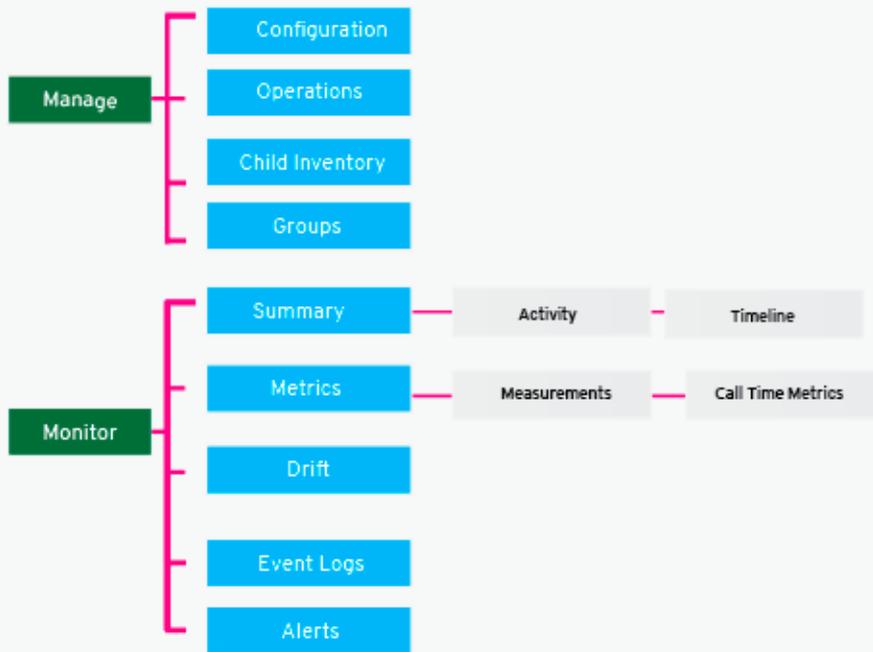
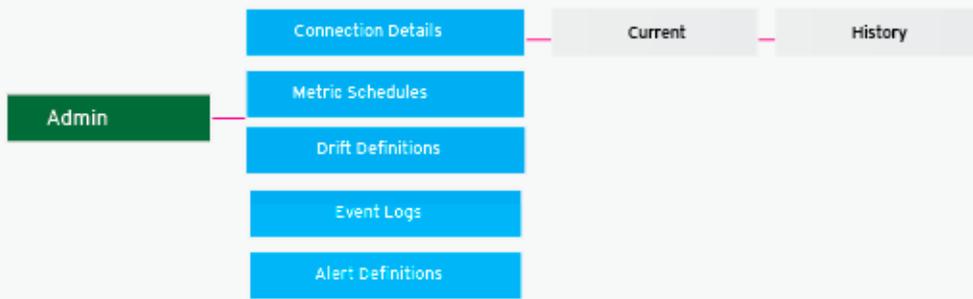
The screenshot displays the RHQ Admin interface. At the top, there is a navigation bar with the RHQ logo on the left and several menu items: DASHBOARD, DISCOVERY QUEUE, INVENTORY, MONITOR, DEPLOY, and ADMIN (which is highlighted in blue). On the far right of the navigation bar, the user is identified as 'admin' with a 'Logout' link. Below the navigation bar, there are two buttons: 'Favorites' and 'Message Ce'. The main content area is titled 'Administration' and contains a paragraph of text: 'From this section, the JON global settings can be administered. This includes configuring security, setting up plugins, and managing JON Servers and Agents.' On the left side of the interface, there is a sidebar with a tree view of categories: Security (Users, Roles), Topology (Servers, Agents, Affinity Groups, Partition Events), Configuration (System Settings, Alert Definition Templates, Drift Definition Templates, Metric Collection Templates, Downloads, Agent Plugins), and Content (Content Sources, Repositories).



Manage Inventory – Access to Resources & Resource level information



Proposed Resource level Sitemap



Handling information overload with Grouping - Reduced sub tabs by adding depth to the information architecture – see only what pertains to your current focus area

Inventory – Landing page

RHQ

DASHBOARD
DISCOVERY QUEUE
INVENTORY
MONITOR
DEPLOY
ADMIN

admin | Logout

▼ RESOURCES

- All Resources
- Platforms
- Servers

▼ GROUPS

- All Groups
- Compatible Groups
- Mixed Groups
- Dyna Groups

Name	Ancestry	Description	Type	Version	Availability
AS sun-x8420-01.rhds.eng.bos.redhat.com RHQ Server	sun-x8420-01.rhds.eng.bos.redhat.com	JBoss Application Server 4 hosting the RHQ Server	JBossAS Server	AS 4.2.3.GA	✓
postgres	sun-x8420-01.rhds.eng.bos.redhat.com	Postgres relational database server	Postgres Server	8.4.9	!
RHQ Agent	sun-x8420-01.rhds.eng.bos.redhat.com	RHQ Management Agent	RHQ Agent	4.2.0.JON.3	✓
/root/jboss-as-7.0.2.Final	sun-x8420-01.rhds.eng.bos.redhat.com	Standalone AS7 server	JBossAS7-Standalone	7.0.2.Final	✓
10.16.64.249:80	sun-x8420-01.rhds.eng.bos.redhat.com	Apache Web Server	Apache HTTP Server	2.2.15	✓
Embedded JBossWeb Server	AS sun-x8420-01.rhds.eng.bos.redhat.com RHQ Server < sun-x8420-01.rhds.eng.bos.redhat.com	JBossAS-Embedded JBossWeb Web Server (jboss-web.deployer/)	Embedded Tomcat Server	2.0.0.GA_CI	✓
JVM	AS sun-x8420-01.rhds.eng.bos.redhat.com RHQ Server < sun-x8420-01.rhds.eng.bos.redhat.com	JVM of the JBossAS	JBoss AS JVM	1.6.0_22	✓
datasources	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com	Datasources subsystem	Datasources		✓
resource-adapters	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		ResourceAdapters		✓
infinispn	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		Infinispn		✓
security	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		Security		✓
web	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		JBossWeb		✓
logging	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		Logging		✓
threads	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		Threads		✓
naming	/root/jboss-as-7.0.2.Final < sun-x8420-01.rhds.eng.bos.redhat.com		Naming		✓
JBoss Cache subsystem	AS sun-x8420-01.rhds.eng.bos.redhat.com RHQ Server < sun-x8420-01.rhds.eng.bos.redhat.com	JBoss Cache subsystem	JBossCacheSubsystem	1.0	✓
JVM	RHQ Agent < sun-x8420-01.rhds.eng.bos.redhat.com	VM of plugin container	RHQ Agent JVM	1.6.0_22	✓

Uninventory
Refresh
Total Rows: 17 (selected: 1)



Inventory – Resource view

Default Landing page for a resource will be Monitor> Summary (if the resource has already been set up.) If not, landing page will be Admin> Connection Details.

RHQ DASHBOARD DISCOVERY QUEUE **INVENTORY** MONITOR DEPLOY ADMIN admin | Logout

AS sun-x8420-01.rhts.eng.bos.redhat.com JBoss App Se.. ADMIN MANAGE **MONITOR** DEPLOY HISTORY

SUMMARY METRICS DRIFTS EVENT LOGS ALERTS

Activity | Timeline

Resource: Measurements

- Agent-Server Clock Difference 2ms
- Avg Execution Time Commands Received Successfully 657ms
- Avg Execution Time Commands Sent Successfully 3ms
- Total Number Of Commands Received per Minute 0
- Total Number of Commands Sent per Minute 1.5

Resource: Event Counts

No event counts based off display criteria.

Resource: OOB Metrics

No OOB conditions found

Resource: Alerts

Creation Time	Name	Condition Text	Priority	Status
No results found using specified criteria.				

Resource: Operations

Date Submitted	Operation	Requestor	Status
No items to show.			

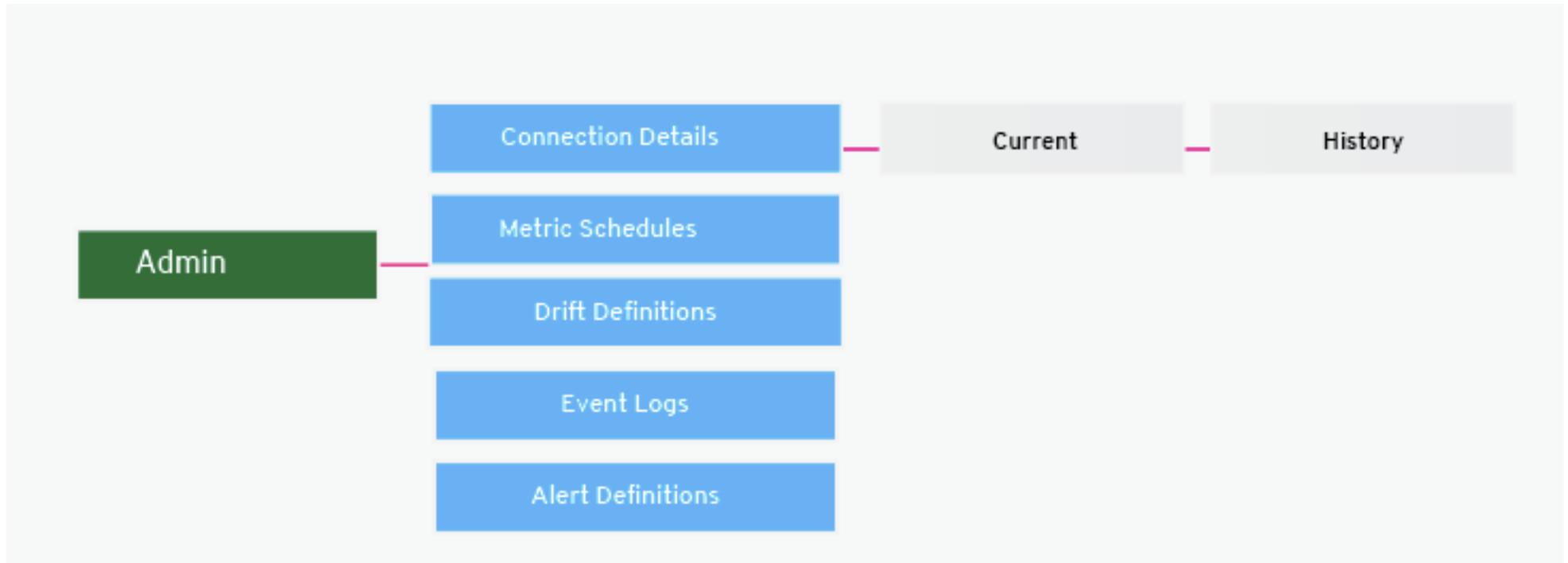
Resource: Configuration Updates

Version	Date Submitted	Date Completed	Status	User	Update Type
10011	Feb 21, 2012 6:24:37 PM	Feb 21, 2012 6:24:37 PM			Individual

Edit Mode Reset



Resource Level - Admin



Resource Level – Admin – Connection Details



DASHBOARD

DISCOVERY
QUEUE

INVENTORY

MONITOR

DEPLOY

ADMIN

admin | Logout

- ▼ sun-x8420-01.rhcs.eng.bos.redhat.com
 - ▶ Apache HTTP Servers
 - ▶ Bundle Handler - Ant
 - ▶ CPUs
 - ▶ File Systems
 - ▼ JBossAS Servers
 - ▼ AS sun-x8420-01.rhcs.eng.bos.redhat.com
 - ▶ Alert Subsystem
 - ▶ Applications
 - ▶ Communications Subsystem
 - ▶ Group Definition Subsystem
 - ▶ Hibernate Statistics
 - ▶ JBoss Cache subsystem
 - ▶ JVM
 - ▶ Measurement Subsystem
 - ▶ Plugin Subsystem
 - ▶ Remote API Subsystem
 - ▶ Resources
 - ▶ JBossAS7-Standalones
 - ▶ Network Adapters
 - ▶ Postgres Servers
 - ▶ RHQ Agent



AS sun-x8420-01.rhcs.eng.bos.redhat.com JBoss App Se..

ADMIN

MANAGE

MONITOR

DEPLOY

HISTORY



CONNECTION DETAILS

METRICS SCHEDULES

DRIFT DEFINITIONS

EVENT LOGS

ALERT DEFINITIONS

Current | History

Save

Jump to Section

Naming Provider URL	<input type="text" value="jnp://127.0.0.1:2099"/>	The JNP URL with which to connect to the JBoss Application Server instance (e.g. jnp://127.0.0.1:1099)
Principal	<input checked="" type="checkbox"/> <input type="text"/>	The name of the principal (i.e. user) to authenticate.
Credentials	<input checked="" type="checkbox"/> <input type="text"/>	The credentials (i.e. password) that should be used to authenticate the principal.
JBoss Home Directory	<input type="text" value="/usr/share/jboss-on-3.0.0.GA/server/jbossas"/>	The absolute path to the directory where JBossAS is installed (e.g. /opt/jboss-4.2.2.GA).
Configuration Path	<input type="text" value="/usr/share/jboss-on-3.0.0.GA/server/jbossas/server/default"/>	The path to the configuration directory under which this instance operates (e.g. /opt/jboss-4.2.2.GA/server/default); if the path is not absolute, then it will be resolved relative to {jbossHomeDir}.
Configuration Set	<input type="checkbox"/> default	The name of the server configuration (e.g. minimal, default, or all); if not specified, it will default to the last path component of {configurationPath}.

Operations

Property	Unset?	Value	Description
Script Prefix	<input checked="" type="checkbox"/>	<input type="text"/>	A prefix applied to script execution commands; this prefix is applied verbatim. The full path of the executable is required (e.g. /usr/bin/sudo). For applicable platforms, this is typically a sudo command, so a sudo user must be configured appropriately for the specified command. Ignored if not set.
Start Script	<input type="checkbox"/>	<input type="text" value="bin/run.sh"/>	The path to the script used by the 'Start' operation to start this JBossAS server (e.g. /opt/jboss-4.2.2.GA/bin/run.sh); if the path is not absolute, then it will be resolved relative to {jbossHomeDir}; defaults to 'bin/run.sh' on UNIX or 'bin/run.bat' on Windows.
Shutdown Script	<input type="checkbox"/>	<input type="text" value="bin/shutdown.sh"/>	The path to the script used by the 'Shutdown' operation to shutdown this JBossAS server (e.g. /opt/jboss-4.2.2.GA/bin/shutdown.sh); if the path is not absolute, then it will be resolved relative to {jbossHomeDir}; defaults to 'bin/shutdown.sh' on UNIX or 'bin/shutdown.bat' on Windows.
Shutdown Method	<input type="checkbox"/>	<input checked="" type="radio"/> JMX MBean <input type="radio"/> shutdown script	The method used to execute the Shutdown operation; defaults to 'JMX MBean'.
Binding Address	<input type="checkbox"/>	<input type="text" value="0.0.0.0"/>	The host or IP address used by all JBoss services as the binding address (e.g. 10.11.14.233); specify 0.0.0.0 to tell JBossAS to bind to all available network interfaces; defaults to '127.0.0.1'.
JAVA_HOME Path	<input type="checkbox"/>	<input type="text" value="/usr/lib/jvm/java-1.6.0-openjdk-1.6.0.0.x86_64"/>	The absolute path to a JRE or JDK installation directory containing the JVM that should be used to start and shutdown the JBossAS instance; defaults to the home directory of the RHQ agent JRE.
Start Wait Max	<input checked="" type="checkbox"/>	<input type="text"/>	The time, in minutes (e.g. 1 or 8) that must elapse before the server is considered to have failed to start up. The default is 5 minutes.
Stop Wait Max	<input checked="" type="checkbox"/>	<input type="text"/>	The time, in minutes (e.g. 1 or 8) that must elapse before the server is considered to have failed to stop. The default is 2.5 minutes.

^ Snapshot Report

^ Advanced



Resource Level – Admin

RHQ DASHBOARD DISCOVERY QUEUE **INVENTORY** MONITOR DEPLOY ADMIN admin | Logout

AS sun-x84.. JBoss App Se.. ADMIN MANAGE MONITOR DEPLOY HISTORY

CONNECTION DETAILS METRICS SCHEDULES DRIFT DEFINITIONS EVENT LOGS ALERT DEFINITIONS

Current | History

Save

Jump to Section

Naming Provider URL: jnp://127.0.0.1:2222

Principal: jboss

Credentials: []

JBoss Home Dir: /opt/jboss-3.0.0.GA/server

Configuration Path: /opt/jboss-3.0.0.GA/server/default

Configuration Name: minimal

Operations

Property	Unset?	Value	Description
Script Prefix	<input checked="" type="checkbox"/>		A prefix applied to script execution commands; this prefix is applied verbatim. The full path of the executable is required (e.g. /usr/bin/sudo). For applicable platforms, this is typically a sudo command, so a sudo user must be configured appropriately for the specified command. Ignored if not set.
Start Script	<input type="checkbox"/>	bin/run.sh	The path to the script used by the 'Start' operation to start this JBossAS server (e.g. /opt/jboss-4.2.2.GA/bin/run.sh); if the path is not absolute, then it will be resolved relative to {jbossHomeDir}; defaults to 'bin/run.sh' on UNIX or 'bin/run.bat' on Windows.
Shutdown Script	<input type="checkbox"/>	bin/shutdown.sh	The path to the script used by the 'Shutdown' operation to shutdown this JBossAS server (e.g. /opt/jboss-4.2.2.GA/bin/shutdown.sh); if the path is not absolute, then it will be resolved relative to {jbossHomeDir}; defaults to 'bin/shutdown.sh' on UNIX or 'bin/shutdown.bat' on Windows.
Shutdown Method	<input type="checkbox"/>	<input checked="" type="radio"/> JMX MBean <input type="radio"/> shutdown script	The method used to execute the Shutdown operation; defaults to 'JMX MBean'.
Binding Address	<input type="checkbox"/>	0.0.0.0	The host or IP address used by all JBoss services as the binding address (e.g. 10.11.14.233); specify 0.0.0.0 to tell JBossAS to bind to all available network interfaces; defaults to '127.0.0.1'.
JAVA_HOME Path	<input type="checkbox"/>	/usr/lib/jvm/java-1.6.0-openjdk-1.6.0.0.x86_64	The absolute path to a JRE or JDK installation directory containing the JVM that should be used to start and shutdown the JBossAS instance; defaults to the home directory of the RHQ agent JRE.
Start Wait Max	<input checked="" type="checkbox"/>		The time, in minutes, (e.g. 1 or 8) that must elapse before the server is considered to have failed to start up. The default is 5 minutes.
Stop Wait Max	<input checked="" type="checkbox"/>		The time, in minutes, (e.g. 1 or 8) that must elapse before the server is considered to have failed to stop. The default is 2.5 minutes.

Inventory > Connection Settings (Minus Events section)

Inventory > Connection Settings History

Monitoring > Schedules

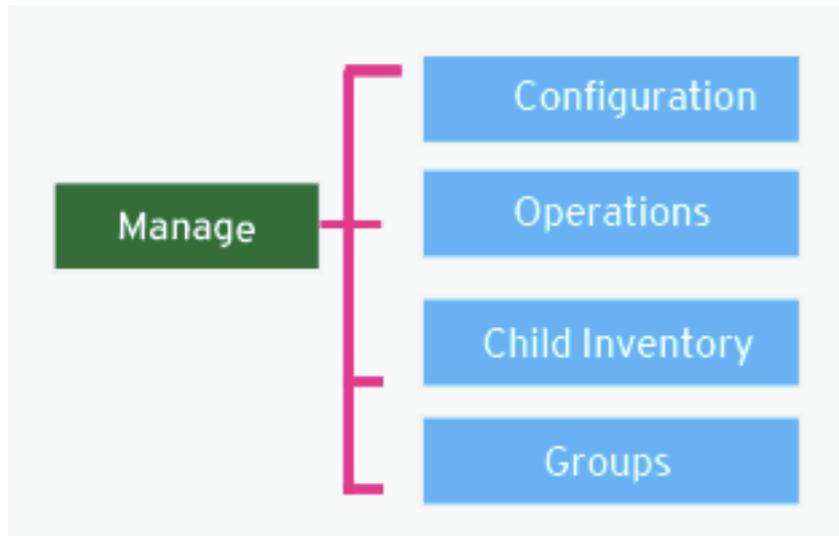
Drift > Definitions

Inventory > Connection Settings – Events Section

Alerts > Definitions



Resource Level - Manage



Resource Level - Manage (Jboss App Server)

RHQ

DASHBOARD
DISCOVERY QUEUE
INVENTORY
MONITOR
DEPLOY
ADMIN

admin | Logout

- ▼ sun-x8420-01.rh.its.eng.bos.redhat.com
 - ▶ Apache HTTP Servers
 - Bundle Handler - Ant
 - ▶ CPUs
 - ▶ File Systems
 - ▼ JBossAS Servers
 - ▼ AS sun-x8420-01.rh.its.eng.bos.redh...
 - Alert Subsystem
 - ▶ Applications
 - Communications Subsystem
 - Group Definition Subsystem
 - ▶ Hibernate Statistics
 - ▶ JBoss Cache subsystem
 - ▶ JVM
 - Measurement Subsystem
 - Plugin Subsystem
 - Remote API Subsystem
 - ▶ Resources
 - ▶ JBossAS7-Standalones
 - ▶ Network Adapters
 - ▶ Postgres Servers
 - ▶ RHQ Agent

AS sun-x8420-01.rh.its.eng.bos.redh...

JBoss App Se..

ADMIN
MANAGE
MONITOR
DEPLOY
HISTORY

OPERATIONS
CHILD INVENTORY
GROUPS

Name	Ancestry	Description	Type	Version	Availability
Embedded JBossWeb Server	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	JBossAS-Embedded JBossWeb Web Server (jboss-web-deployer/)	Embedded Tomcat Server	2.0.0.GA_C	✓
JVM	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	JVM of the JBossAS	JBoss AS JVM	1.6.0_22	✓
JBossMQ	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	JBossMQ subsystem	JBossMQ		✓
WebServiceTestBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
ConfigurationSubsystemManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
MeasurementViewManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
RHQDS	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	A JCA Datasource	Datasource		✓
NoTxRHQDS	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	A JCA Datasource	Datasource		✓
JmsXA	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	A JCA Connection Factory	ConnectionFactory		✓
EntityManagerFacade	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
MeasurementCompressionManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
OperationManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
AlertDefinitionManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
SchedulerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
DataAccessManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
SynchronizationManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
ClusterManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
ResourceFactoryManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
FailoverListManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
GroupAlertDefinitionManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
AlertTemplateManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
MetricHandlerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
ServerManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
MeasurementBaselineManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
ResourceHandlerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
MeasurementChartsManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
MeasurementScheduleManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓
AlertManagerBean	AS sun-x8420-01.rh.its.eng.bos.redhat.com RHQ Server < sun-x8420-01.rh.its.eng.bos.redhat.com	An EJB3 Session Bean	EJB3 Session Bean		✓

Delete
Import
Create Child
Uninventory

Refresh
Total Rows: 135 (selected: 0)



Resource Level – Manage (RHQ Agent)

RHQ DASHBOARD DISCOVERY QUEUE **INVENTORY** MONITOR DEPLOY ADMIN admin | Logout

RHQAgent RHQ Agent ADMIN MANAGE MONITOR DEPLOY HISTORY

CONFIGURATION OPERATIONS CHILD INVENTORY GROUPS

Configuration > Current

Operations > Schedules

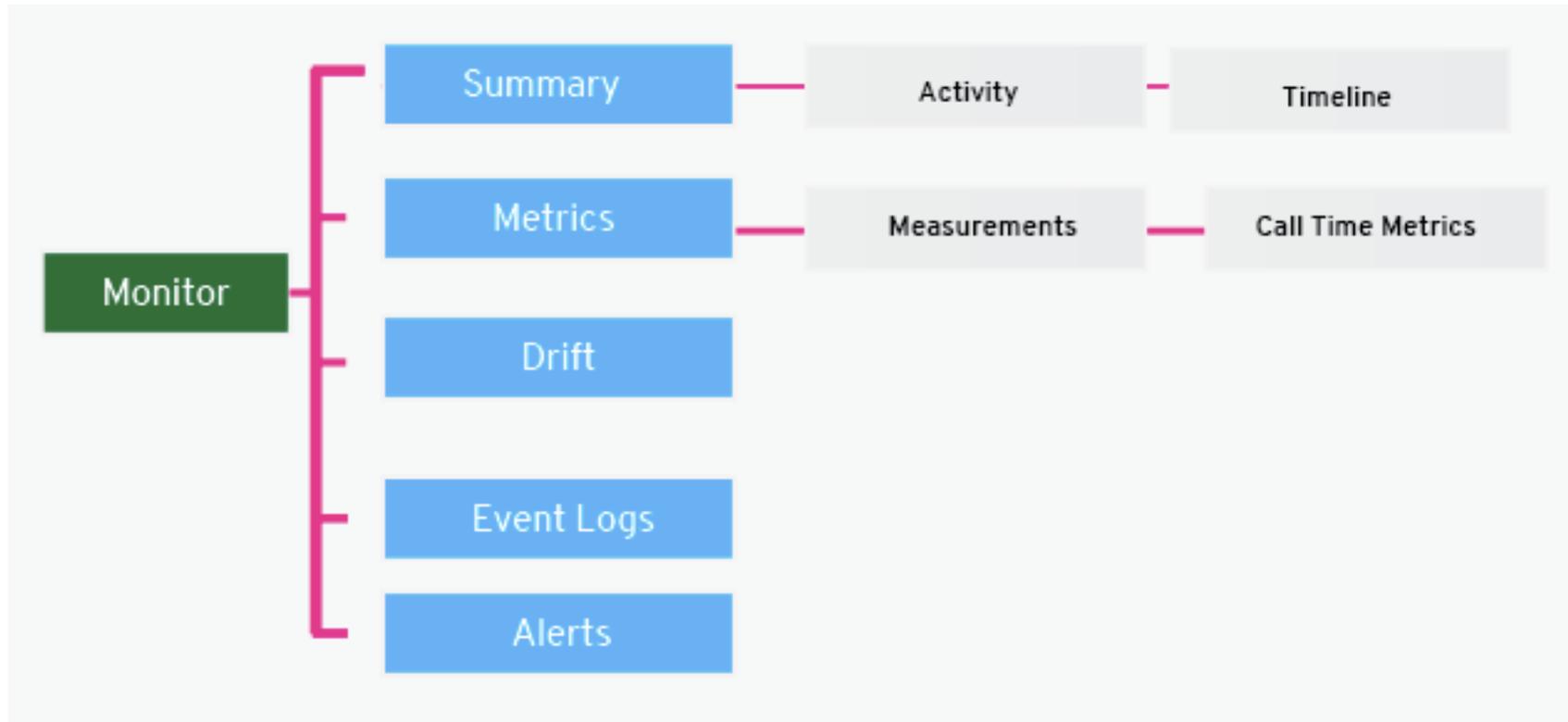
Inventory > Child Resources

Inventory > Groups

Property	Unset?	Value	Description
Agent Name		sun-x8420-01.rhqs.eng.bos.redhat.com	This is read-only - once set, it cannot be changed.
Plugin Configuration			Plugin jar files are stored in the following directory.
Service Discovery Initial Delay	<input checked="" type="checkbox"/>		Startup delay before the first service discovery is run (in seconds)
Service Discovery Period	<input checked="" type="checkbox"/>		Time between service discoveries (in seconds)
Availability Scan Initial Delay	<input checked="" type="checkbox"/>		Startup delay before the first availability scan is run (in seconds)
Availability Scan Period	<input checked="" type="checkbox"/>		Time between availability scans (in seconds)
Measurement Collection Initial Delay	<input checked="" type="checkbox"/>		Startup delay before the first measurement collection is run (in seconds)
Measurement Collection Threadpool Size	<input checked="" type="checkbox"/>		Number of concurrent measurement collections that can be run
Drift Detection Initial Delay	<input checked="" type="checkbox"/>		Startup delay before the first drift detection scan is run (in seconds)
Drift Detection Period	<input checked="" type="checkbox"/>		Time between drift detection scans (in seconds)
Operation Invocation Timeout	<input checked="" type="checkbox"/>		Time before an operation invocation is aborted (in seconds)
Operation Invoker Threadpool Size	<input checked="" type="checkbox"/>		Number of concurrent operation invocations that can be run
Content Discovery Initial Delay	<input checked="" type="checkbox"/>		Startup delay before the first content discovery is run (in seconds)



Resource Level - Monitor



Resource Level – Monitor (Summary)

The screenshot displays the RHQ (Red Hat Quarkus) interface for monitoring a resource. The top navigation bar includes tabs for DASHBOARD, DISCOVERY QUEUE, INVENTORY, MONITOR, DEPLOY, and ADMIN. The user is logged in as 'admin'. The main content area shows the resource 'AS sun-x8420-01.rhts.eng.bos.redhat.com' with a summary view selected. The summary view includes a left-hand navigation tree, a central 'Activity | Timeline' section, and a right-hand section with several data panels.

Navigation Tree (Left):

- sun-x8420-01.rhts.eng.bos.redhat.com
 - Apache HTTP Servers
 - Burdle Handler - Ant
 - CPUs
 - File Systems
 - JBossAS Servers
 - AS sun-x8420-01.rhts.eng.bos.redhat.com
 - Alert Subsystem
 - Applications
 - Communications Subsystem
 - Group Definition Subsystem
 - Hibernate Statistics
 - JBoss Cache subsystem
 - JVM
 - Measurement Subsystem
 - Plugin Subsystem
 - Remote API Subsystem
 - Resources
 - JBossAS7-Standalones
 - Network Adapters
 - Postgres Servers
 - RHQ Agent

Summary View (Center):

Activity | Timeline

Resource: Measurements

- Agent-Server Clock Difference 2ms
- Avg Execution Time Commands Received Successfully 657ms
- Avg Execution Time Commands Sent Successfully 3ms
- Total Number Of Commands Received per Minute 0
- Total Number of Commands Sent per Minute 1.5

Resource: Event Counts

No event counts based off display criteria.

Resource: OOB Metrics

No OOB conditions found

Resource: Alerts

Creation Time	Name	Condition Text	Priority	Status
No results found using specified criteria.				

Resource: Operations

Date Submitted	Operation	Requestor	Status
No items to show.			

Resource: Configuration Updates

Version	Date Submitted	Date Completed	Status	User	Update Type
10011	Feb 21, 2012 6:24:37 PM	Feb 21, 2012 6:24:37 PM			Individual

Page-Footer:

26 

Resource Level – Monitor (Metrics)

The screenshot displays the RHQ (Red Hat Quiescent) monitoring interface. The top navigation bar includes 'DASHBOARD', 'DISCOVERY QUEUE', 'INVENTORY', 'MONITOR', 'DEPLOY', and 'ADMIN'. The user is logged in as 'admin'. The main content area shows the 'AS sun-x84..' JBoss App Se.. resource. The 'MONITOR' tab is active, displaying a 'Measurements' section with a 'View: Graph' dropdown. The 'Summary' tab is selected, showing 'Availability - 100.0%' and three metrics: 'Active Thread Count (AS)', 'JVM Free Memory (AS)', and 'JVM Total Memory (AS)'. Each metric includes a line graph and summary statistics (Low, Avg, Peak).

Summary Metrics:

- Active Thread Count (AS)**
tyan-gt24-04.rh.its.eng.bos.redhat.com RHQ Server
Low: 63, Avg: 66.5417, Peak: 69
- JVM Free Memory (AS)**
tyan-gt24-04.rh.its.eng.bos.redhat.com RHQ Server
Low: 184.1MB, Avg: 612.3MB, Peak: 849MB
- JVM Total Memory (AS)**
tyan-gt24-04.rh.its.eng.bos.redhat.com RHQ Server
Low: 926.3MB, Avg: 977.4MB, Peak: 1,017.4MB



Resource Level – Monitor (Metrics)

The screenshot displays the RHQ (Red Hat Quarkus) monitoring interface. At the top, there is a navigation bar with tabs for DASHBOARD, DISCOVERY QUEUE, INVENTORY, MONITOR, DEPLOY, and ADMIN. The user is logged in as 'admin'. The main content area shows a resource named 'AS sun-x84.. JBoss App Se..' with sub-tabs for SUMMARY, METRICS, DRIFTS, EVENT LOGS, and ALERTS. The 'METRICS' tab is active, showing a 'Measurements' section with a 'View: Graph' dropdown. Three metrics are displayed as line graphs with summary statistics:

- Availability - 100.0%** (of known values for t... shown) - Low: 63, Avg: 66.5417, Peak: 69
- Active Thread Count (AS tyan-gt24-04.rh...)** - Low: 63, Avg: 66.5417, Peak: 69
- Free Memory (AS tyan-gt24-04.rh...)** - Low: 612.3MB, Avg: 612.3MB, Peak: 849MB
- JVM Total Memory (AS tyan-gt24-04.rh... RHQ Server)** - Low: 926.3MB, Avg: 977.4MB, Peak: 1,017.4MB

Three callout boxes provide additional information:

- Monitoring> Graphs/ Tables**: Points to the 'View: Graph' dropdown.
- Graphs and tables are different views of the same data – So they are displayed as view options instead of separate tabs**: Explains the relationship between graph and table views.
- Monitoring> Call time metrics - For the resources that it is relevant, "Call time Metrics" will also display here**: Points to the 'Active Thread Count' metric.



Resource Level - Monitor (Metrics)

The screenshot displays the RHQ Monitor interface. At the top, there is a navigation bar with tabs for DASHBOARD, DISCOVERY QUEUE, INVENTORY, MONITOR, DEPLOY, and ADMIN. The user is logged in as 'admin'. The main content area shows a tree view on the left with 'JBossAS Servers' expanded to 'AS sun-x8420-01.rhts.eng.bos.redhat.com'. The main panel shows 'AS sun-x84.. JBoss App Se..' with a 'MONITOR' button highlighted. Below this, there is a table with columns 'Item' and 'Details', containing rows for Item 1 through Item 6. A callout box points to the 'MONITOR' button with the text: 'Monitoring > Traits - Traits will display in the expandable Info area. This area will also present information in columns to better utilize horizontal screen real estate.' Below the table, there are tabs for DRIFTS, EVENT LOGS, and ALERTS. At the bottom, a 'JVM Free Memory (AS tyan-gt24-04.rhts.eng.bos.redhat.com RHQ Server)' chart is visible, showing a bar chart and a line graph with values: Low:184.1MB, Avg:612.3MB, Peak:849MB.



Resource Level – Monitor (Drift)

RHQ DASHBOARD DISCOVERY QUEUE **INVENTORY** MONITOR DEPLOY ADMIN admin | Logout

AS sun-x84.. JBoss App Se.. ADMIN MANAGE **MONITOR** DEPLOY HISTORY

SUMMARY METRICS **DRIFTS** EVENT LOGS ALERTS

Measurements View: Graph

Availability - 100.0% (of known)

Active Thread Count (AS tyan-gt24-04.rh...)
Avg: 66.5417 Peak: 69

JVM Free Memory (AS tyan-gt24-04.rh...)
Avg: 612.3MB Peak: 849MB

JVM Total Memory (AS tyan-gt24-04.rh... RHQ Server)
Low: 926.3MB Avg: 977.4MB Peak: 1,017.4MB

This tab will display the carousel view which is currently buried Within Drift >Drift definition. If no drifts exists, it will say " No Drifts exist".

New icon will display only when a drift event is detected. Clicking on this will lead to the drift tab below.



Resource Level – Monitor (Event Logs/ Alerts)

The screenshot shows the RHQ interface with the following components:

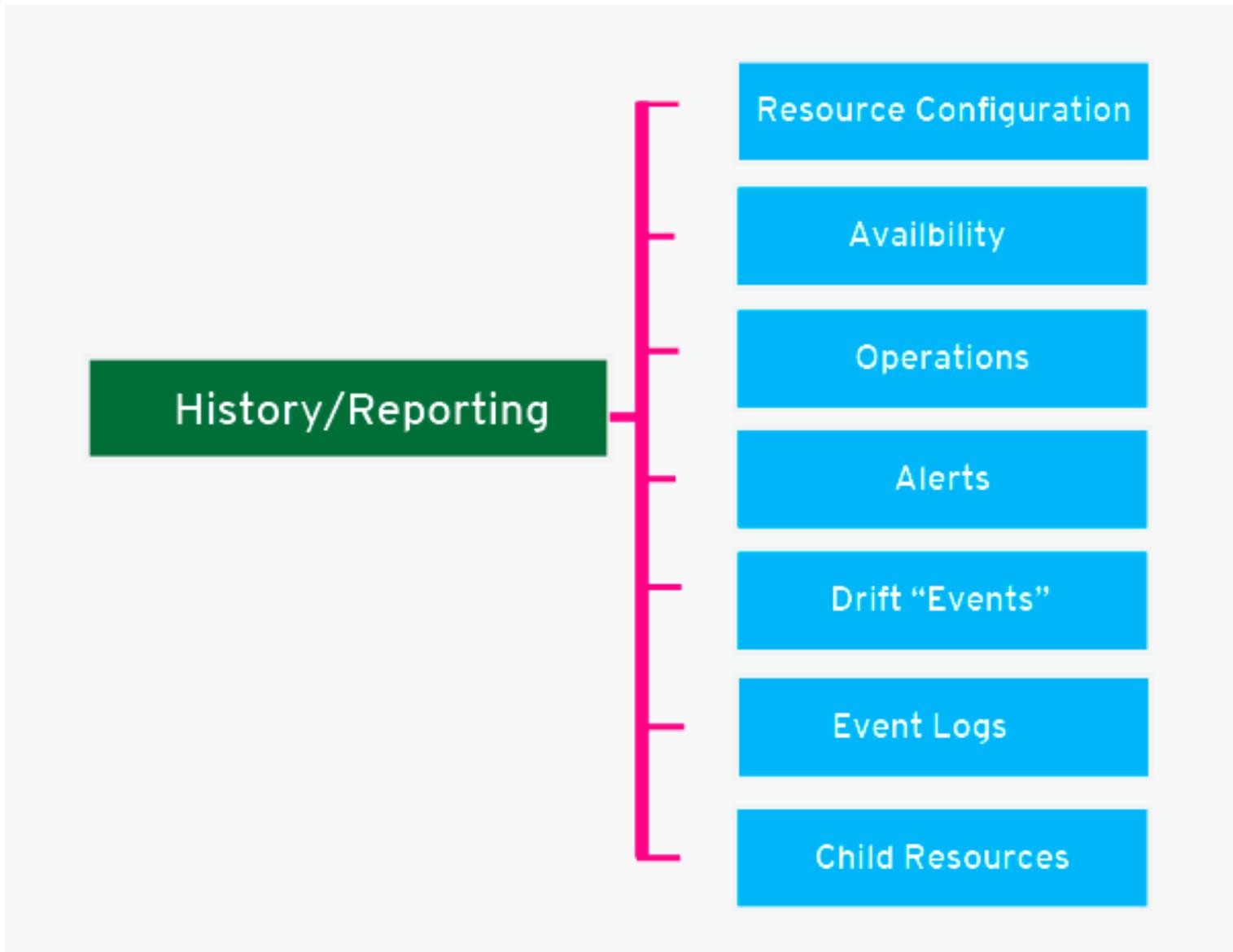
- Navigation Bar:** DASHBOARD, DISCOVERY QUEUE, INVENTORY (selected), MONITOR, DEPLOY, ADMIN. User: admin | Logout.
- Left Sidebar:** Tree view of resources including sun-x8420-01.rhts.eng.bos.redhat.com, Apache HTTP Servers, Bundle Handler - Ant, CPUs, File Systems, JBossAS Servers, and various subsystems like Alert Subsystem, Applications, etc.
- Main Content Area:** Header for 'AS sun-x84..' JBoss App Se.. with buttons for ADMIN, MANAGE, MONITOR (selected), DEPLOY, HISTORY. Sub-tabs: SUMMARY, METRICS, DRIFTS, EVENT LOGS (selected), ALERTS.
- Measurements Section:** View: Graph. Includes:
 - Availability - 100.0%** (of known values for the timeframe shown)
 - Active Thread Count (AS tyan-gt24-04.rhts.eng.bos.redhat.com RHQ Server)**: Peak: 69.3
 - JVM Free Memory (AS tyan-gt24-04.rhts.eng.bos.redhat.com RHQ Server)**: Peak: 849MB
 - JVM Total Memory (AS tyan-gt24-04.rhts.eng.bos.redhat.com RHQ Server)**: Low: 926.3MB, Avg: 977.4MB, Peak: 1,017.4MB

Callout Box 1 (Events): Events> History - The log file events corresponding to the event log definitions in the Admin section that have not been purged or deleted will display here. Purged Logs will display in the history section.

Callout Box 2 (Alerts): Alerts> History - New, unacknowledged/ undeleted alerts display here. Acknowledged alerts will display in the History section.



Resource Level - History



Resource Level - History

RHQ DASHBOARD DISCOVERY QUEUE **INVENTORY** MONITOR DEPLOY ADMIN admin | Logout

AS sun-x84.. JBoss App Se.. ADMIN MANAGE MONITOR DEPLOY HISTORY

CONFIGURATION AVAILABILITY OPERATIONS ALERTS DRIFT EVENTS EVENT LOGS CHILD RESOURCES

Operation Status : Success In Progress Canceled Failed

Date Submitted	Operation	Requestor	Status
Feb 22, 2012 9:10:33 PM	View Process List	rhqadmin	
Feb 22, 2012 9:06:55 PM	Clean Yum Metadata Cache	rhqadmin	

Delete Force Delete Refresh Total Rows: 2 (selected: 0)

- sun-x8420-01.rhqs.eng.bos.redhat.com
 - Apache HTTP Servers
 - Bundle Handler - Ant
 - CPUs
 - File Systems
 - JBossAS Servers
 - AS sun-x8420-01.rhqs.eng.bos.redhat.com
 - Alert Subsystem
 - Applications
 - Communications Subsystem
 - Group Definition Subsystem
 - Hibernate Statistics
 - JBoss Cache subsystem
 - JVM
 - Measurement Subsystem
 - Plugin Subsystem
 - Remote API Subsystem
 - Resources
 - JBossAS7-Standalones
 - Network Adapters
 - Postgres Servers
 - RHQ Agent



Resource Level - History

The screenshot shows the RHQ interface for a resource named 'AS sun-x84..' (JBoss App Se..). The navigation bar includes DASHBOARD, DISCOVERY QUEUE, INVENTORY (active), MONITOR, DEPLOY, and ADMIN. The user is logged in as 'admin'.

The resource page has several tabs: CONFIGURATION, AVAILABILITY, OPERATIONS, ALERTS, DRIFT EVENTS, EVENT LOGS, and CHILD RESOURCES. Callouts explain the history features for each:

- CONFIGURATION**: Configuration > History (This tab displays only for the resources that it is relevant for)
- AVAILABILITY**: Monitoring > Availability
- OPERATIONS**: Operations > History
- ALERTS**: Alerts > History
- DRIFT EVENTS**: New page – Details details about when drift events took place. Clicking on any row should lead to the Monitor area for drifts with the carousel view scrolled to the right snapshot version corresponding to the event.
- EVENT LOGS**: Events > History – displays only purged events
- CHILD RESOURCES**: Inventory > Child History

The main content area shows a table with columns for Requestor and Status. Below the table are buttons for Delete, Force Delete, and Refresh. The footer indicates 'Total Rows: 2 (selected: 0)'.

