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www.theredhatsummit.com

JBoss Operations Network

(JON)

Overview
Roadmap
Demo

Charles Crouch
Development Manager

Alan Santos
Product Manager

System Management

Configuration
Performance
Inventory
Release
Fault

What does JON do?

Deploy
Configure
Monitor **JBoss** applications
and related infrastructure

What does JON do?

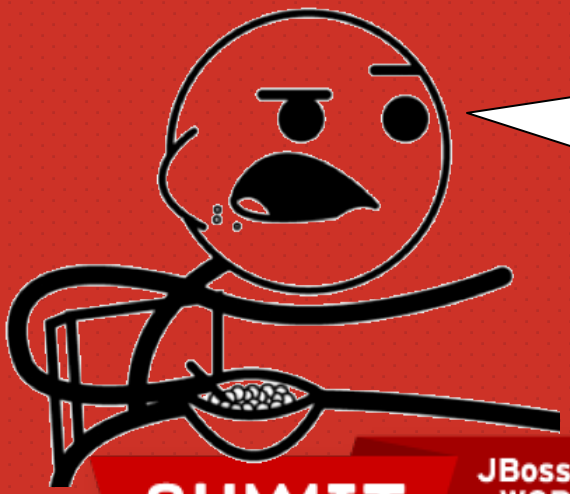
*The sources of Web Application Downtime
Hurwitz & Associates 2009

Consolidate deployment processes

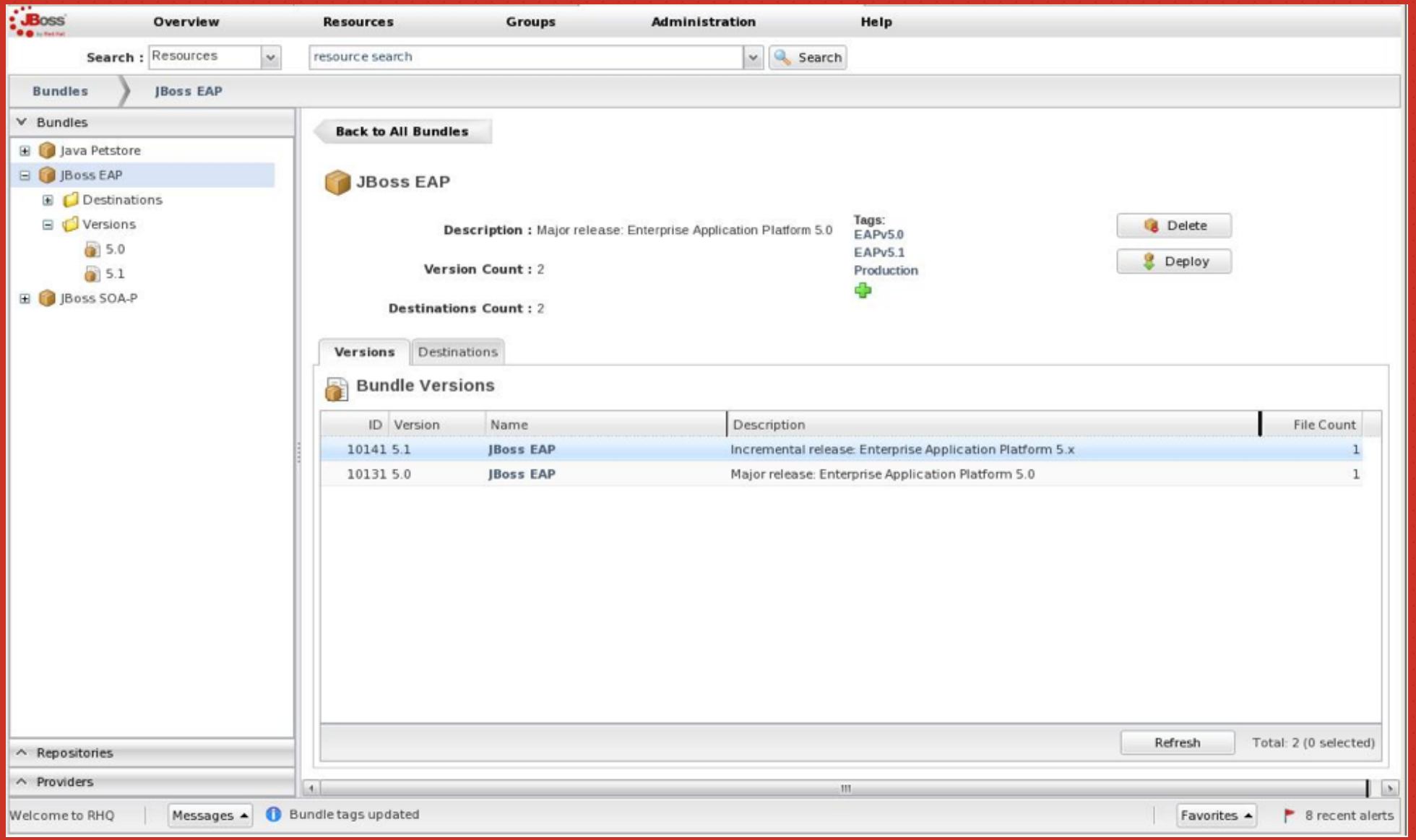
Deploy & **Rollback** for logical/physical groups

Discover/Report deployed assets

Patch servers via Red Hat Portal



The **average** company will **spend** over **$850,000** per year to create, maintain and support deployment scripts.*



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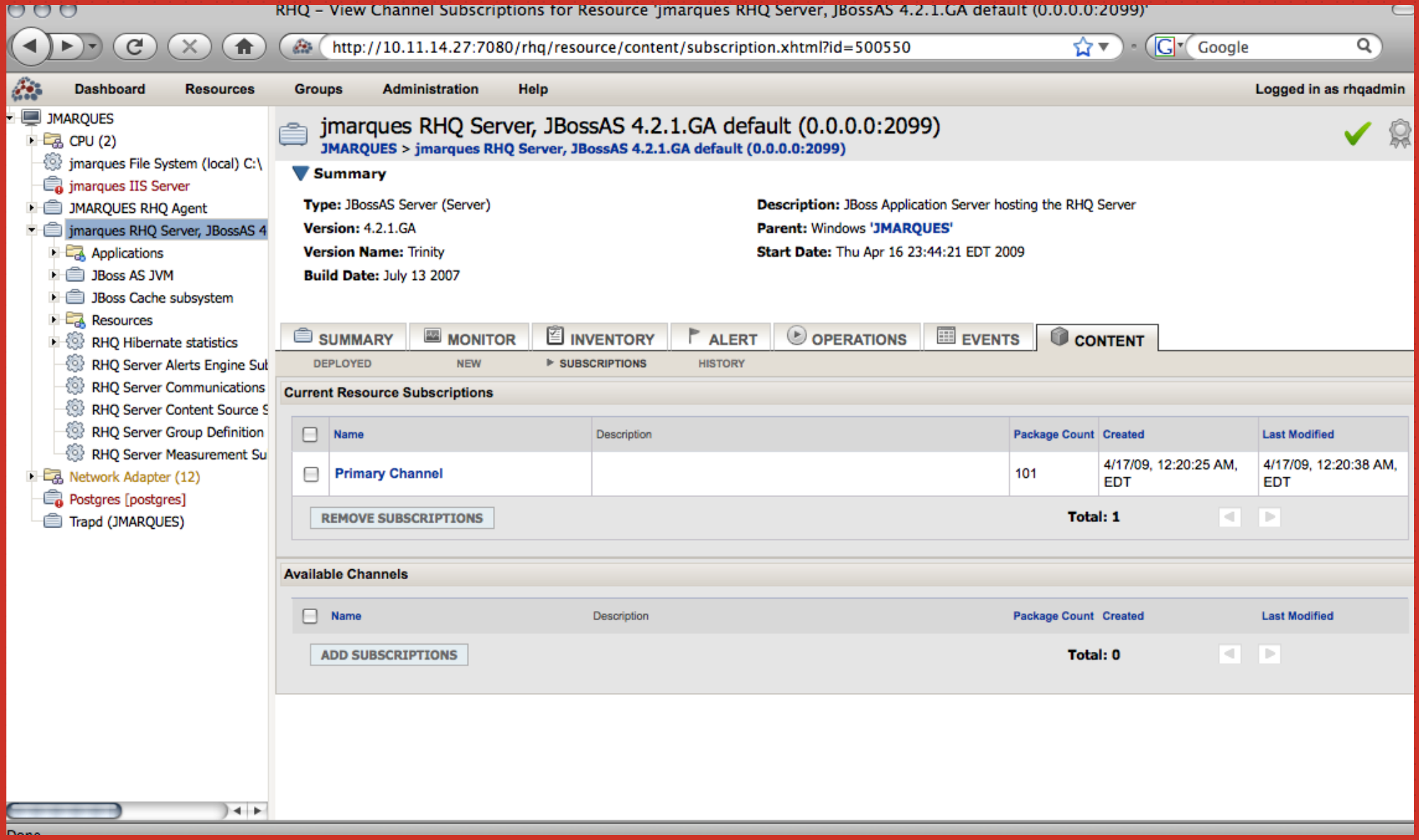
Provisioning


RHQ - View Channel Subscriptions for Resource 'jmarques RHQ Server, JBossAS 4.2.1.GA default (0.0.0.0:2099)'
http://10.11.14.27:7080/rhq/resource/content/subscription.xhtml?id=500550
Google
Dashboard
Resources
Groups
Administration
Help
Logged in as rhqadmin
JMARQUES
CPU (2)
jmarques File System (local) C:\
jmarques IIS Server
JMARQUES RHQ Agent
jmarques RHQ Server, JBossAS 4
Applications
JBoss AS JVM
JBoss Cache subsystem
Resources
RHQ Hibernate statistics
RHQ Server Alerts Engine Sut
RHQ Server Communications
RHQ Server Content Source S
RHQ Server Group Definition
RHQ Server Measurement Su
Network Adapter (12)
Postgres [postgres]
Trapd (JMARQUES)
jmarques RHQ Server, JBossAS 4.2.1.GA default (0.0.0.0:2099)
JMARQUES > jmarques RHQ Server, JBossAS 4.2.1.GA default (0.0.0.0:2099)
Summary
Type: JBossAS Server (Server)
Version: 4.2.1.GA
Version Name: Trinity
Build Date: July 13 2007
Description: JBoss Application Server hosting the RHQ Server
Parent: Windows 'JMARQUES'
Start Date: Thu Apr 16 23:44:21 EDT 2009
SUMMARY
MONITOR
INVENTORY
ALERT
OPERATIONS
EVENTS
CONTENT
DEPLOYED
NEW
SUBSCRIPTIONS
HISTORY
Current Resource Subscriptions
Name
Description
Package Count
Created
Last Modified
Primary Channel
101
4/17/09, 12:20:25 AM, EDT
4/17/09, 12:20:38 AM, EDT
REMOVE SUBSCRIPTIONS
Total: 1
Available Channels
Name
Description
Package Count
Created
Last Modified
ADD SUBSCRIPTIONS
Total: 0

http://www.techrepublic.com/article/easy-to-use-cost-effective-network-and-system-monitoring-software/5798331

Simplify large-scale configuration

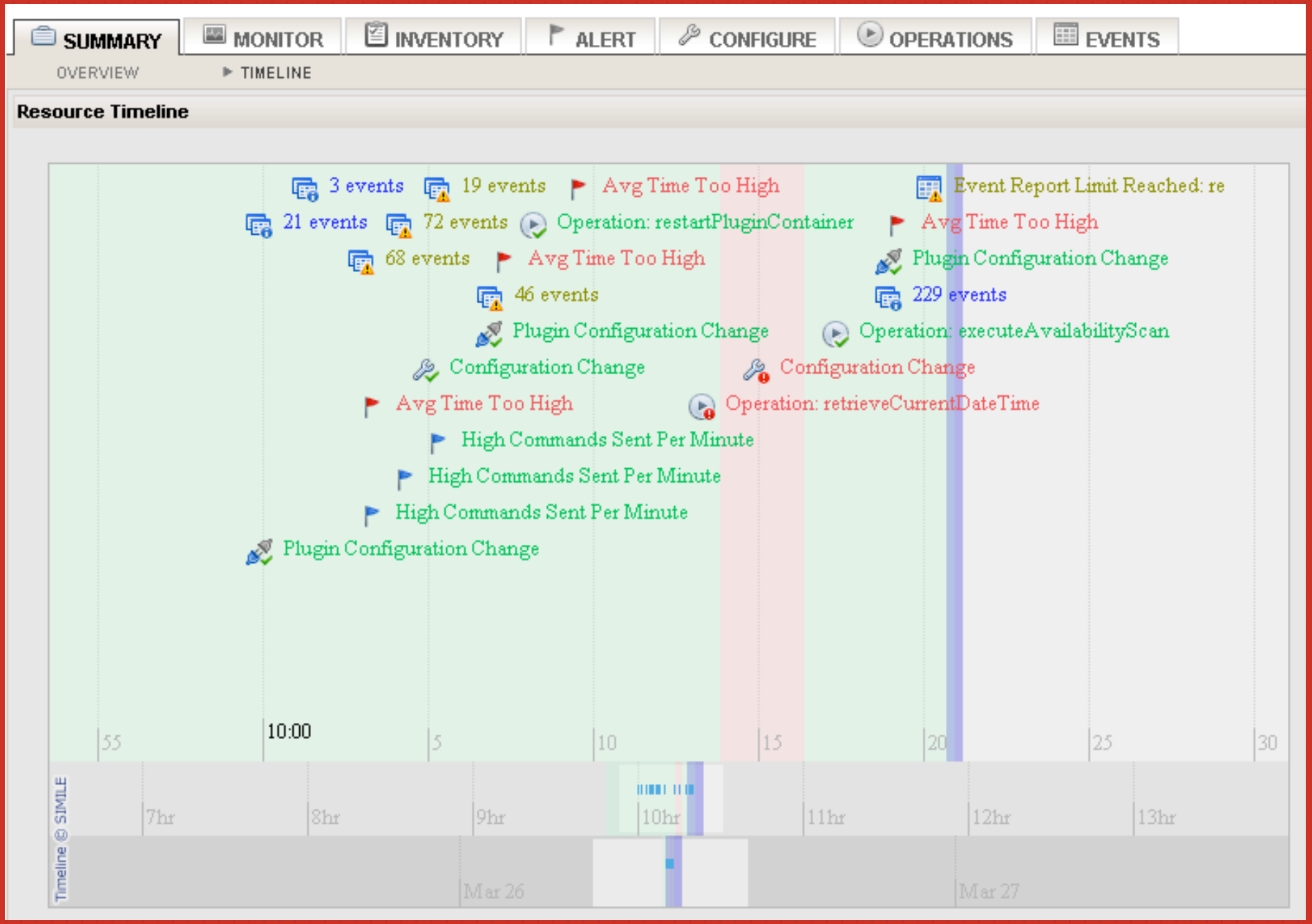
Update group configuration

Audit change history & **Track** impact

Rollback to 'blessed' state

up to **60%** of downtime is due to configuration errors*

Configure



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Resource History

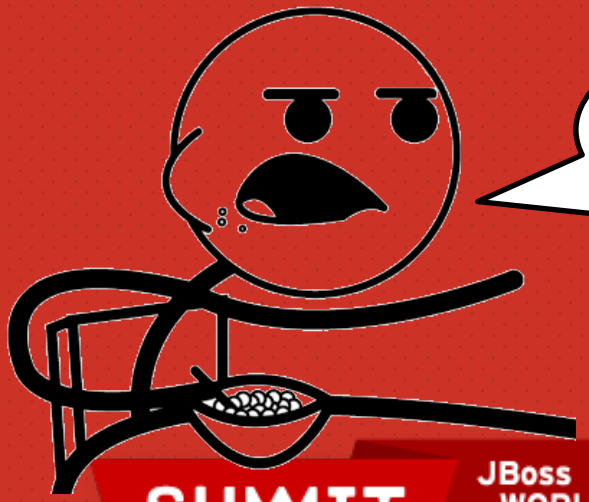
The Economic Impacts of Inadequate Infrastructure for Software Testing
NIST (May 2002).

Identify bottlenecks, **Reduce** MTTR

Collect and store metrics

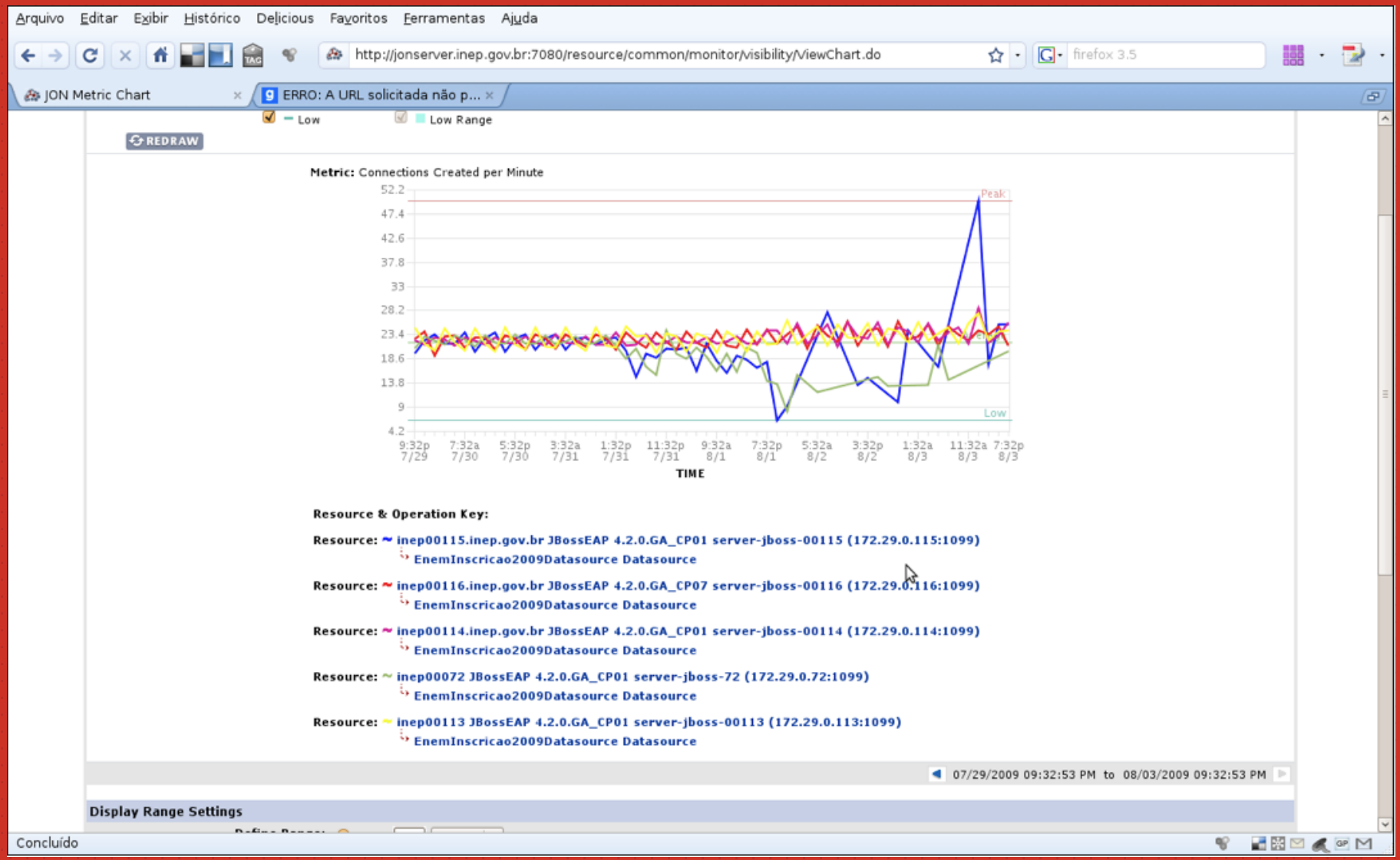
Alert on SLA violations

Track system events

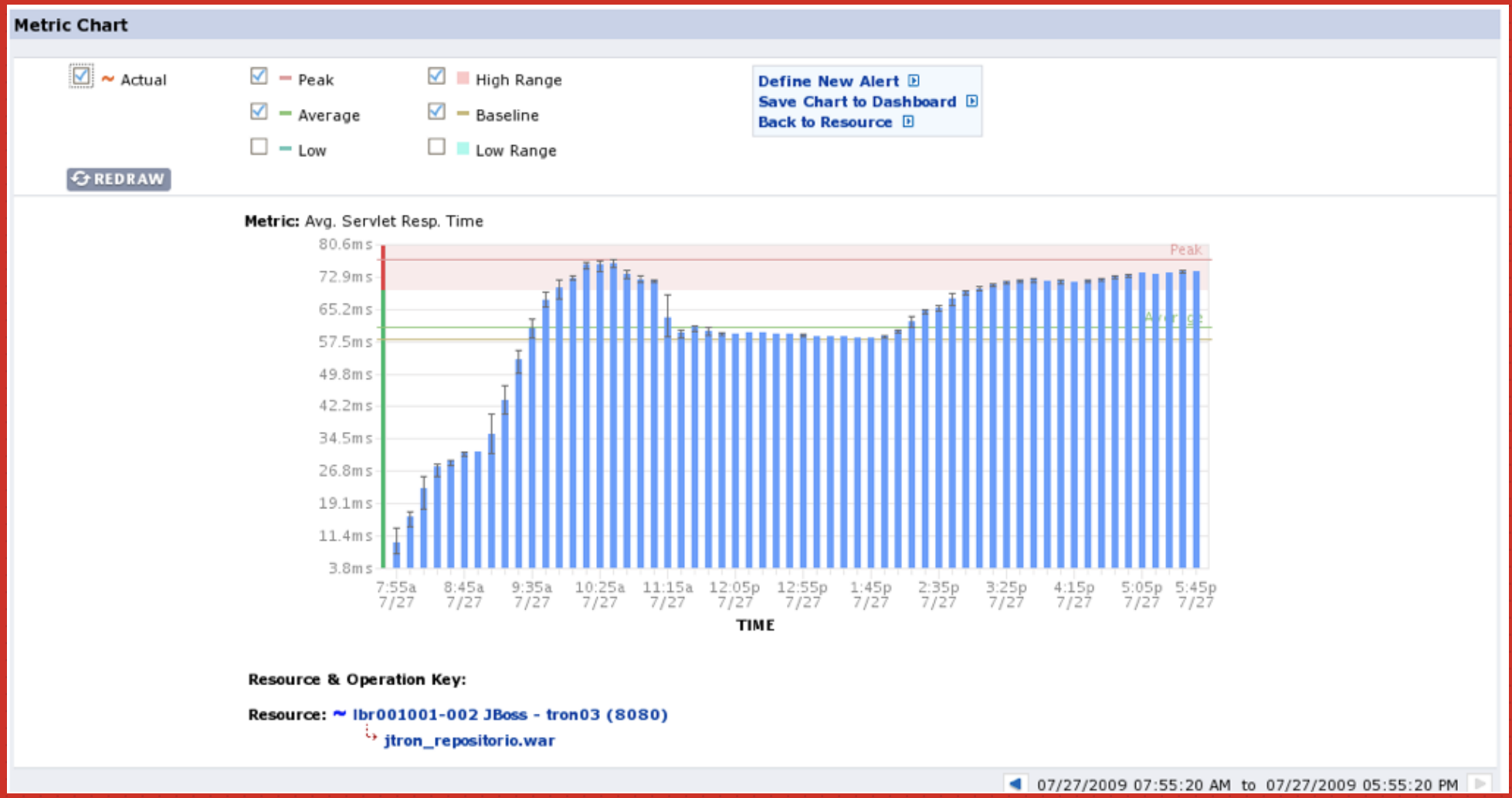


four of every **five dollars** for an applications TCO **is spent finding and fixing performance issues** post-deployment*

Monitor



Historic Performance Data



Baseline Deviation

Queries

Query	Execution Count	Execution Row Count	Execution Min Time	Execution Max Time	Execution Avg Time	Actions
SELECT a FROM Agent a	2	0	0	2	1	View
SELECT r.agent.id FROM Resource r WHERE r.id = :resourceId	5	5	0	0	0	View
SELECT count(ac.id) FROM AlertCondition AS ac JOIN ac.alertDefinition ad JOIN ad.resource res JOIN ac.measurementDefinition md, MeasurementSchedule ms JOIN ms.baseline mb WHERE (ad.recoveryId = 0 OR (ad.recoveryId <> 0 AND EXISTS (SELECT lad FROM AlertDefinition lad WHERE lad.id = ad.recoveryId AND lad.deleted = FALSE AND lad.enabled = FALSE))) AND (res.agent.id = :agentId OR :agentId IS NULL) AND ad.enabled = TRUE AND ad.deleted = FALSE AND ms.definition = md AND ms.resource = res AND mb IS NOT NULL AND ac.category = 'BASELINE'	3	3	0	39	23	View
SELECT new org.rhq.core.domain.operation.OperationDefinition (od.id, od.name, od.resourceVersionRange, od.description, od.timeout, od.displayName) FROM OperationDefinition AS od WHERE od.resourceType.id = :resourceTypeId AND (od.name = :operationName or :operationName IS NULL) ORDER BY od.displayName	2	3	0	0	0	View
SELECT res FROM Resource res LEFT JOIN FETCH res.currentAvailability JOIN FETCH res.resourceType WHERE res.id = :resourceId	30	30	0	12	0	View
SELECT h FROM GroupOperationHistory h WHERE h.status = :status AND NOT EXISTS (SELECT roh.id FROM ResourceOperationHistory roh WHERE roh.groupOperationHistory.id = h.id)	1	0	0	1	1	View

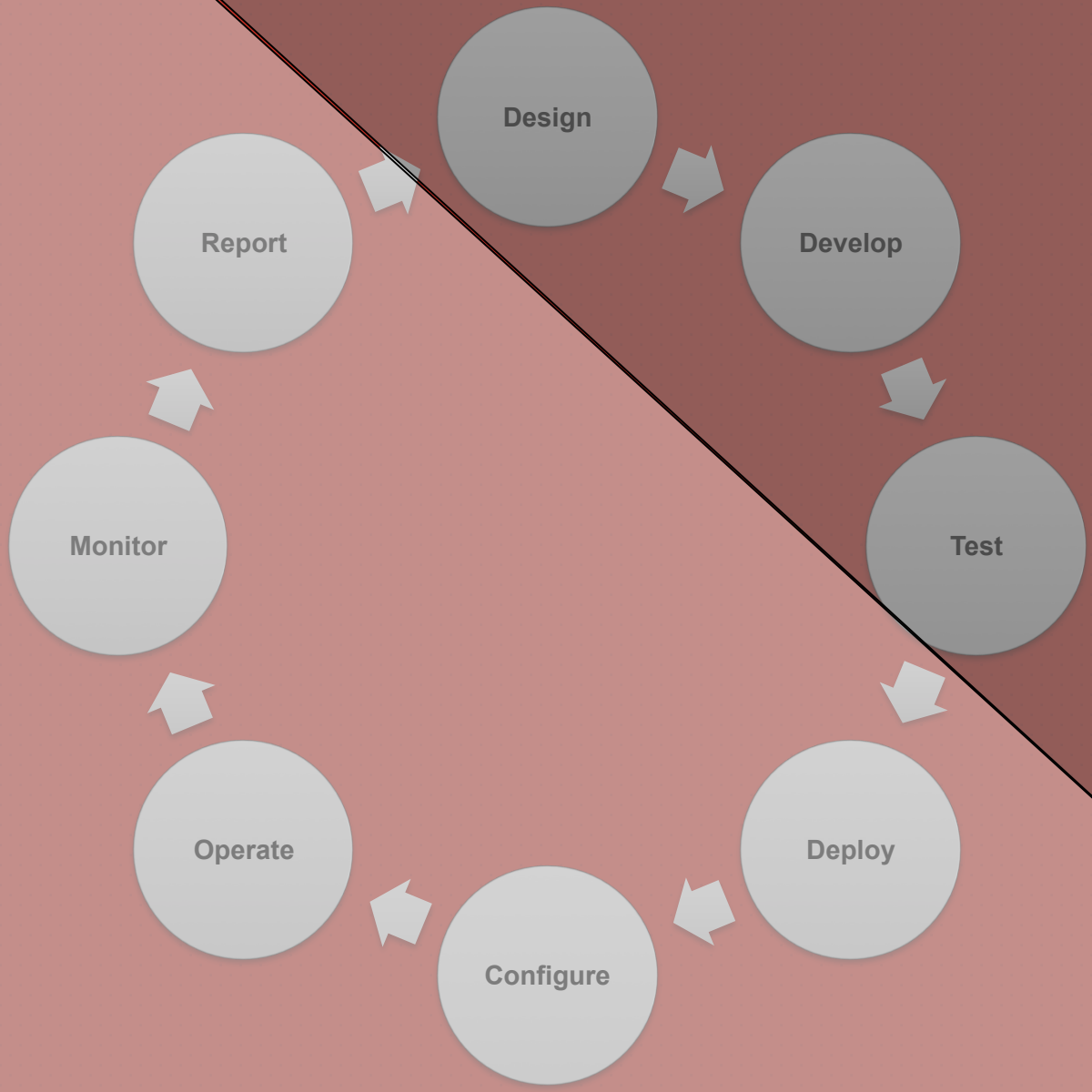
Hibernate Statistics

Reduce the operating and maintenance **costs** of JBoss servers and applications

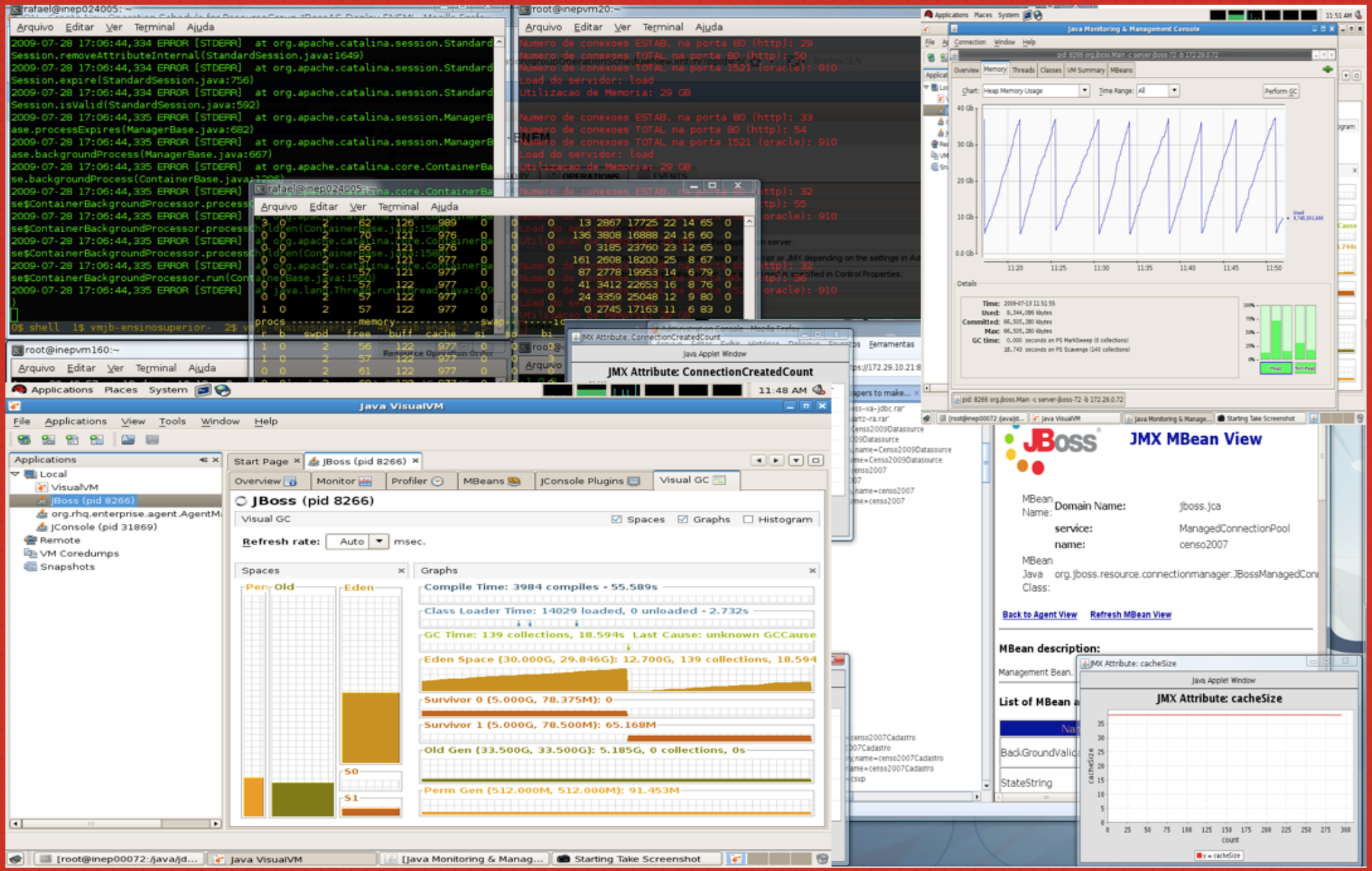
What does JON do?

80-92% Cost
3-15 Years

8-20% Cost
1-3 Years



Lifecycle Costs?



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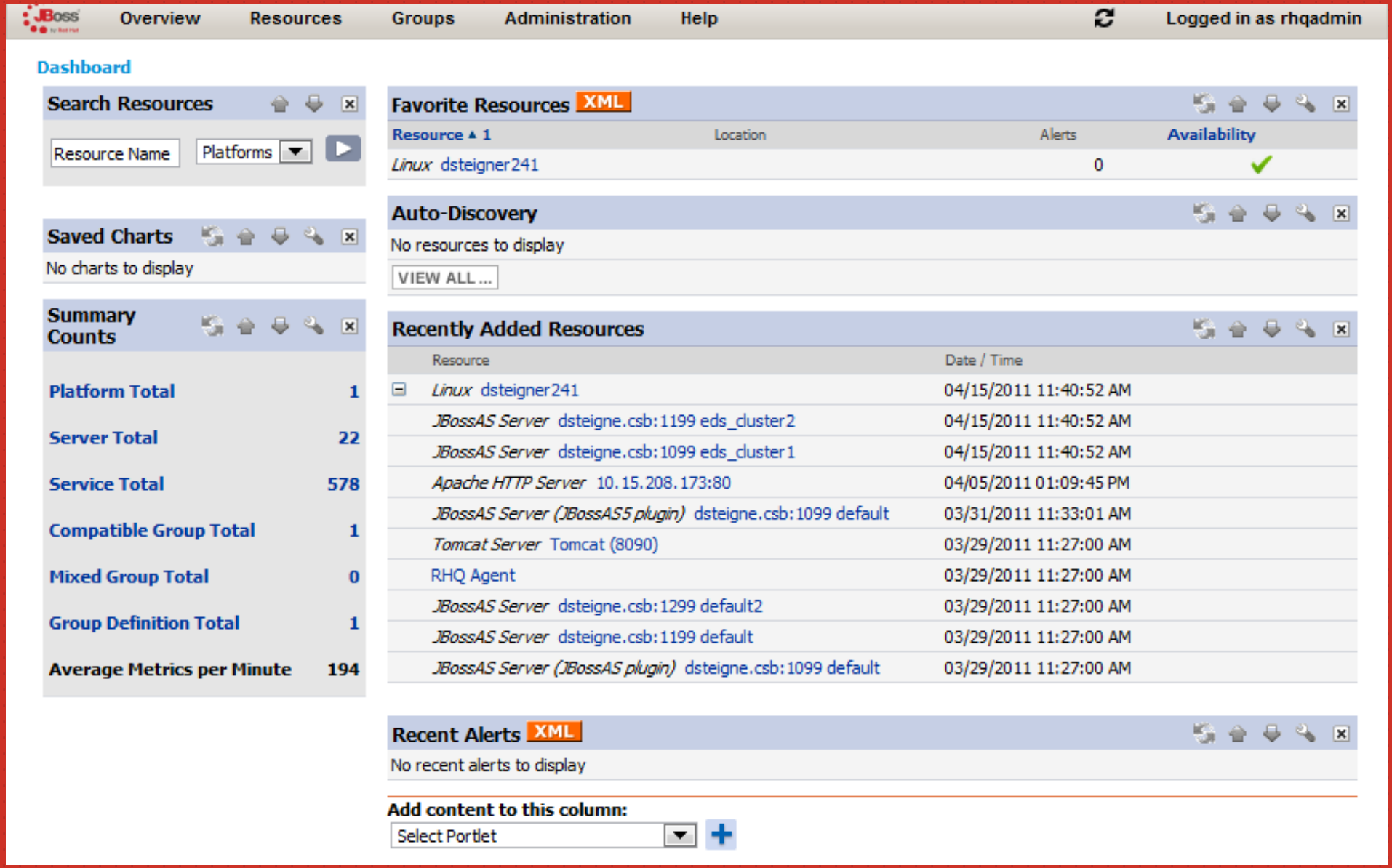
Without JON



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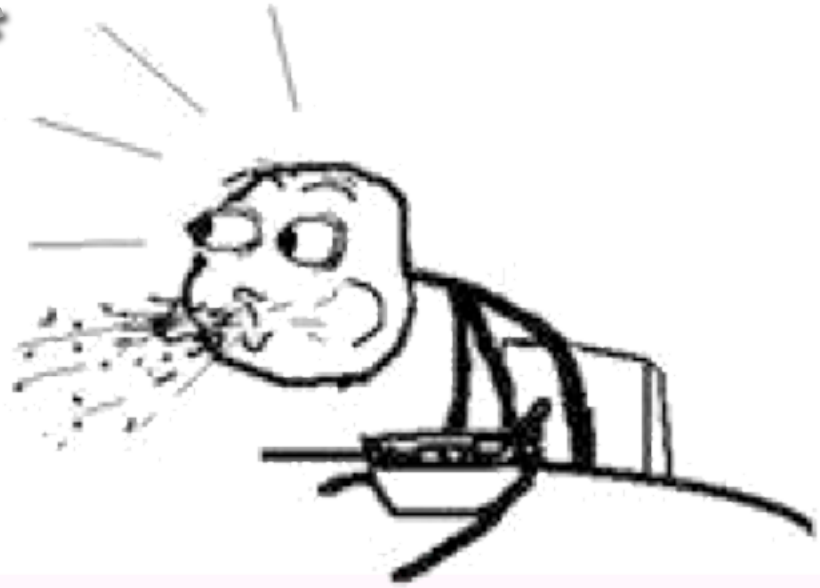
With JON

*http://www.networkworld.com/careers/2004/0105man.html

1 company

80-90 hours downtime

3,000,000 USD*



*IDC Study http://inquiries.redhat.com/go/redhat/jon-roi

83% of downtime loss recaptured

2x JBoss servers per admin

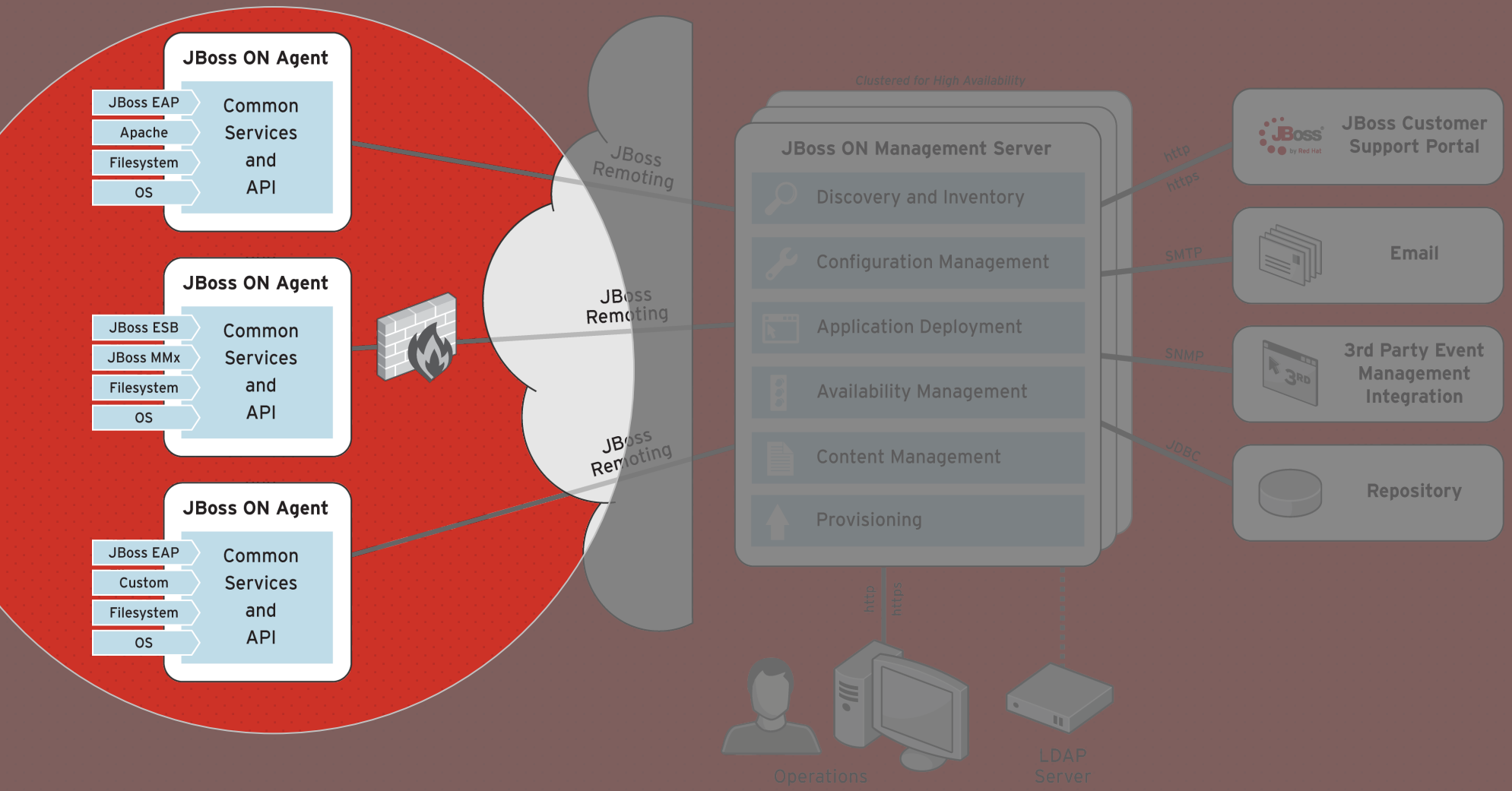
15 Minute average MTTR

634% ROI

6 month payback*

Free Puppies!

Big Vet Bills
Eats your shoes
2 Words: Pooper Scooper



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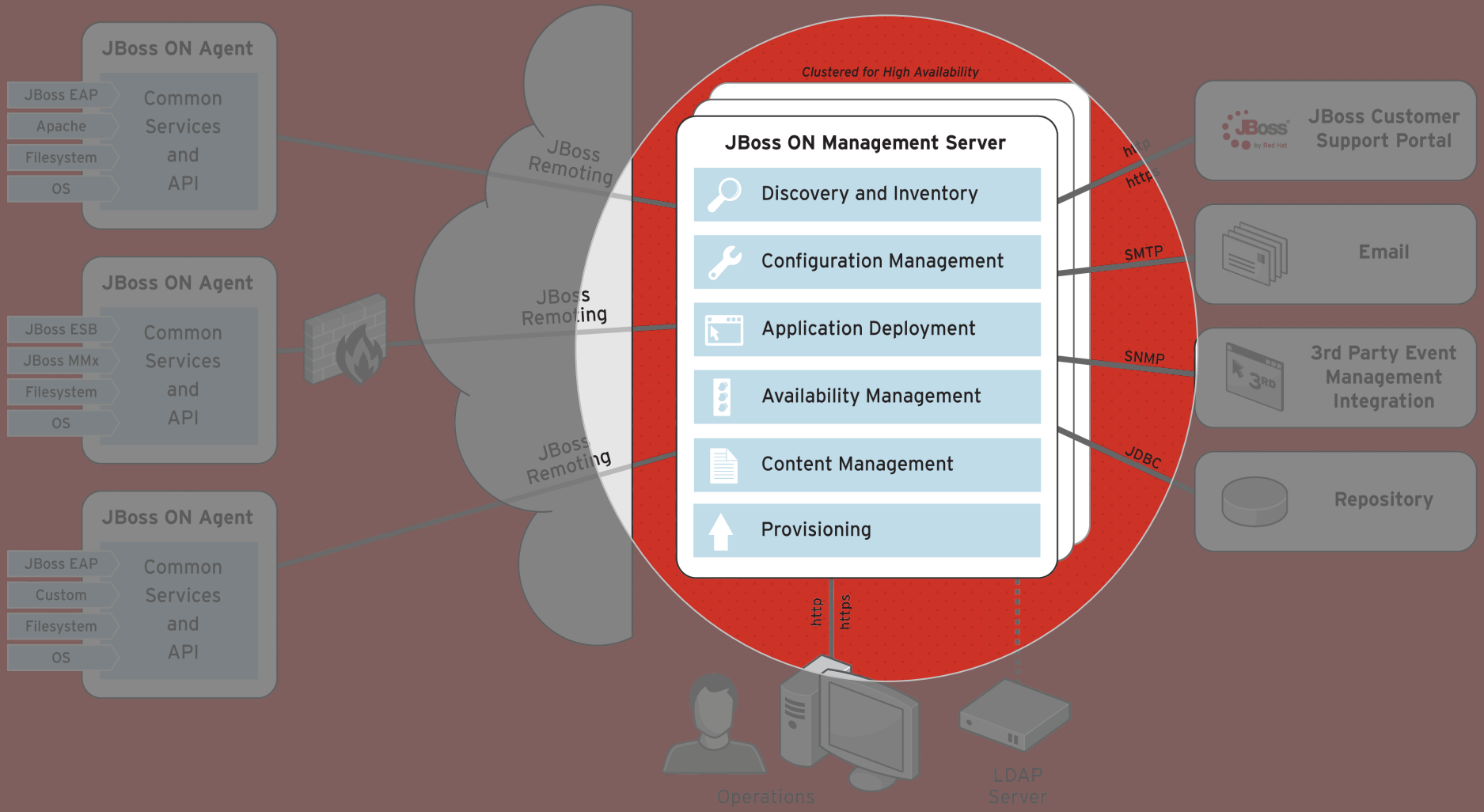
How?



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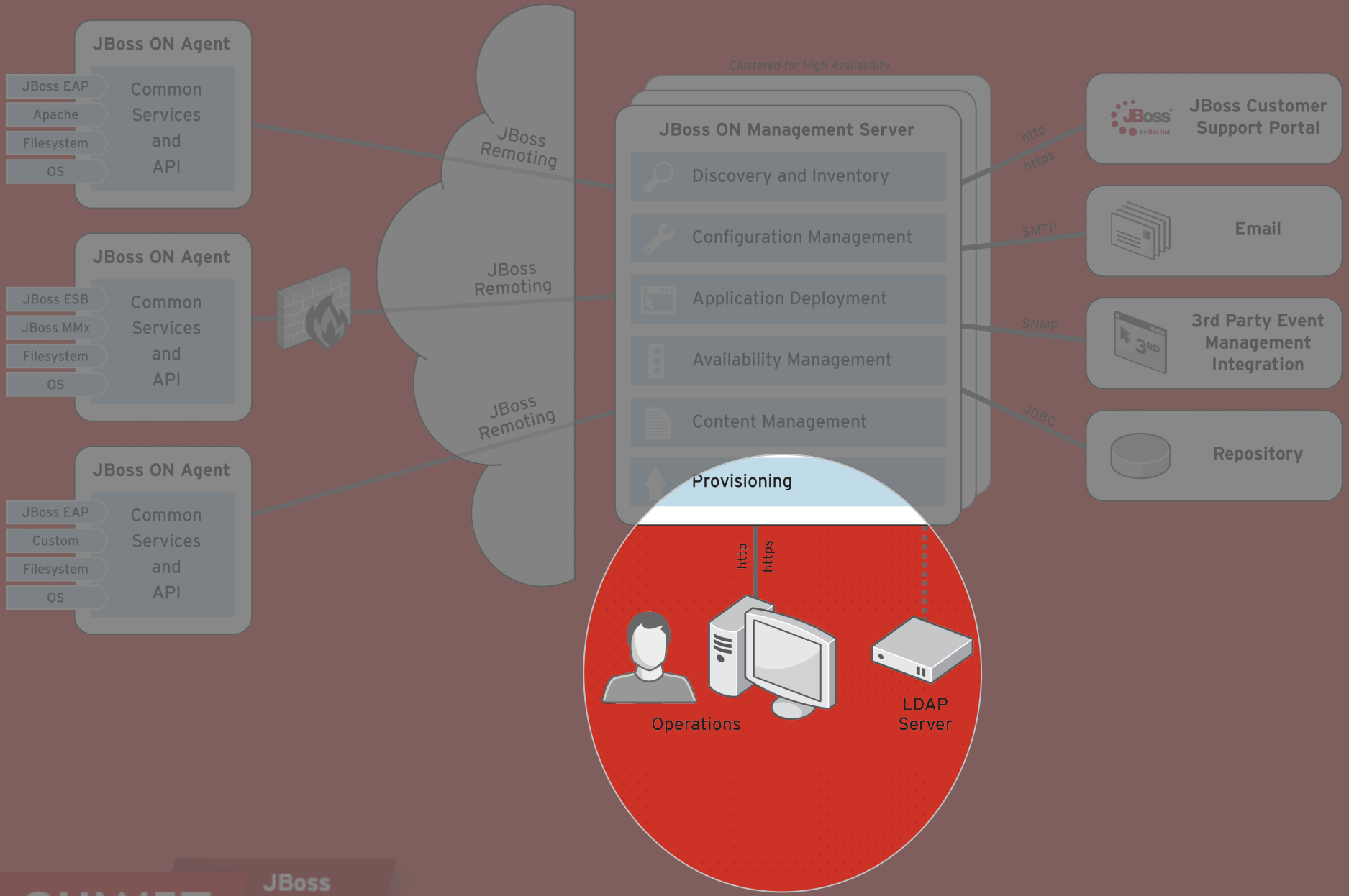
How?



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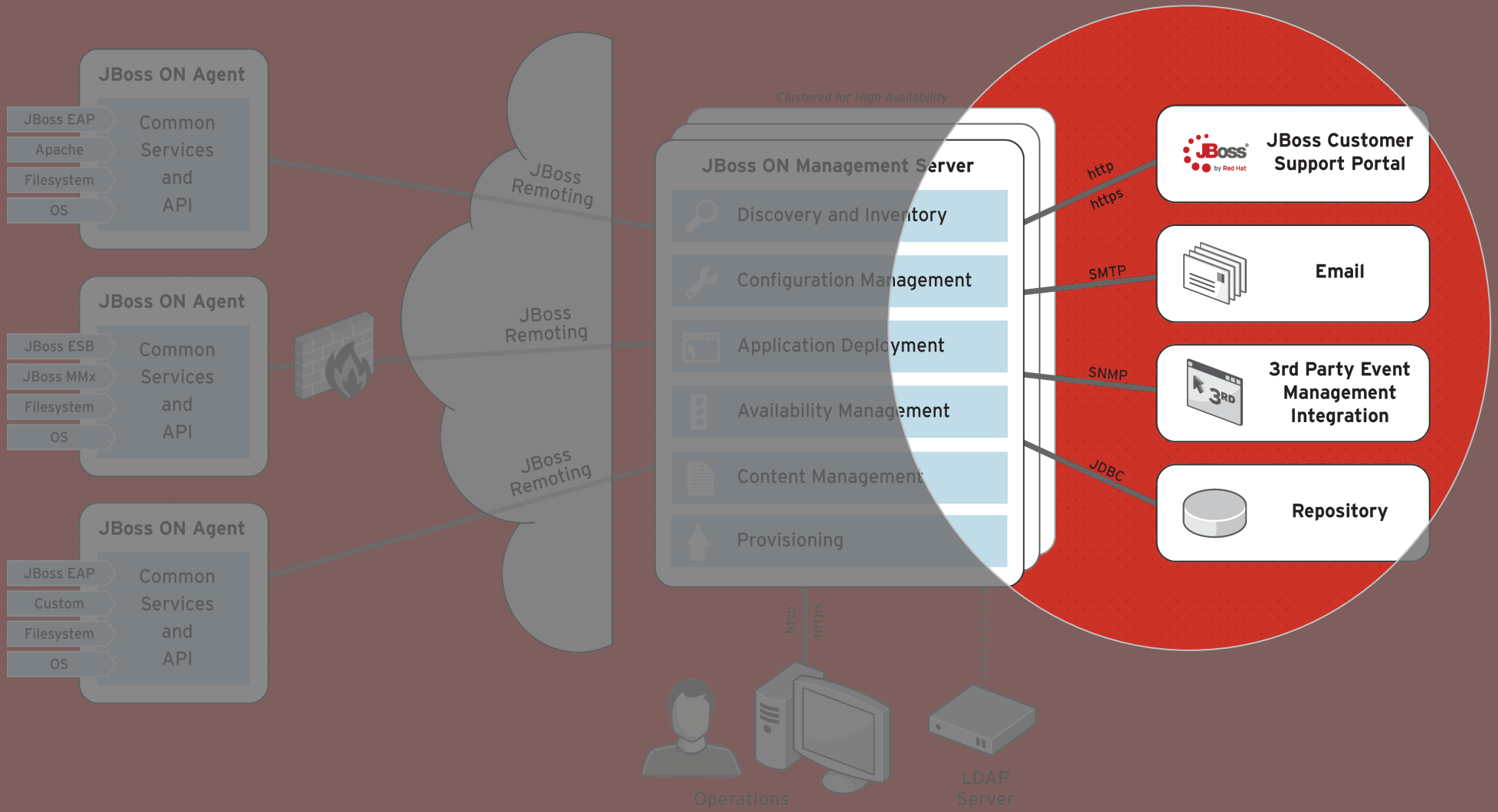
How?



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How?

JBoss EAP, SOA-P, EDS

Apache

Tomcat

IIS

PostgreSQL

OS & JVM

MySQL

Oracle

Mobicents

Samba

Hudson

JIRA

Lsof

LibVirt

Twitter

MS-SQL

Over **40** different manageable resources in the community

Manage What?

3.0
11/2011

Roadmap

Cloud Forms Integration

Launch

Configure

Monitor

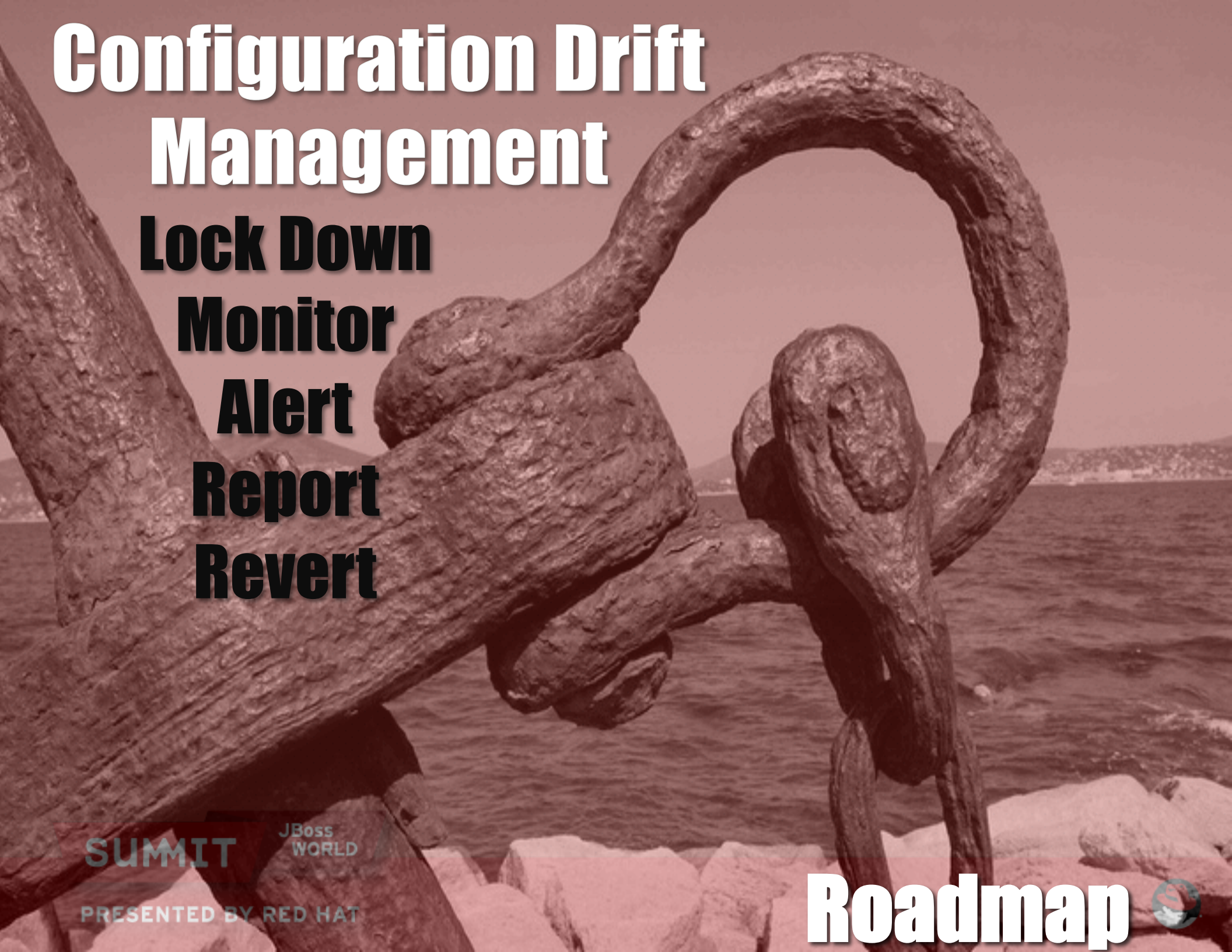
Drop

Virtual Appliances

Roadmap

Configuration Drift Management

Lock Down
Monitor
Alert
Report
Revert



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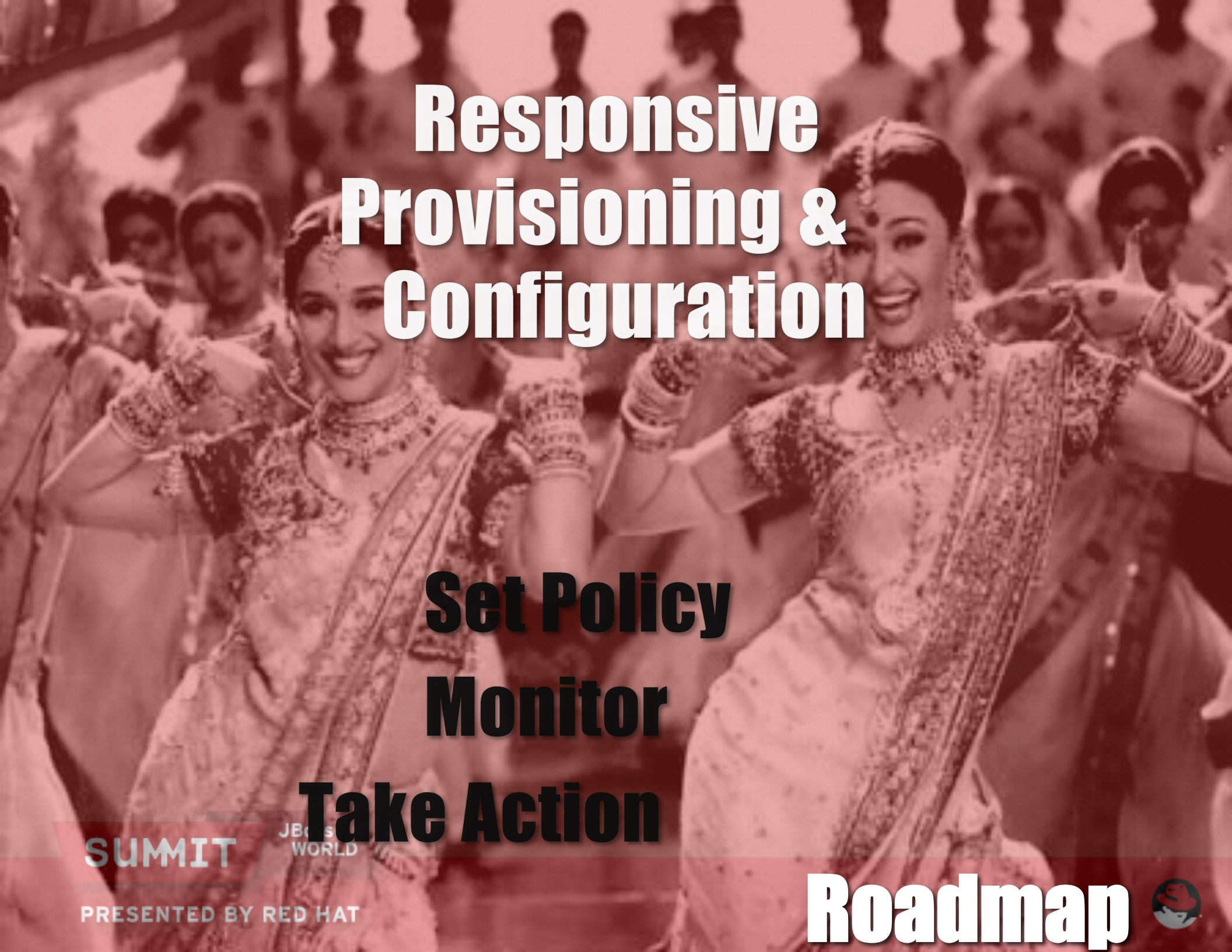
Roadmap


Responsive
Provisioning &
Configuration
Set Policy
Monitor
Take Action
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Roadmap

EAP 6 Support

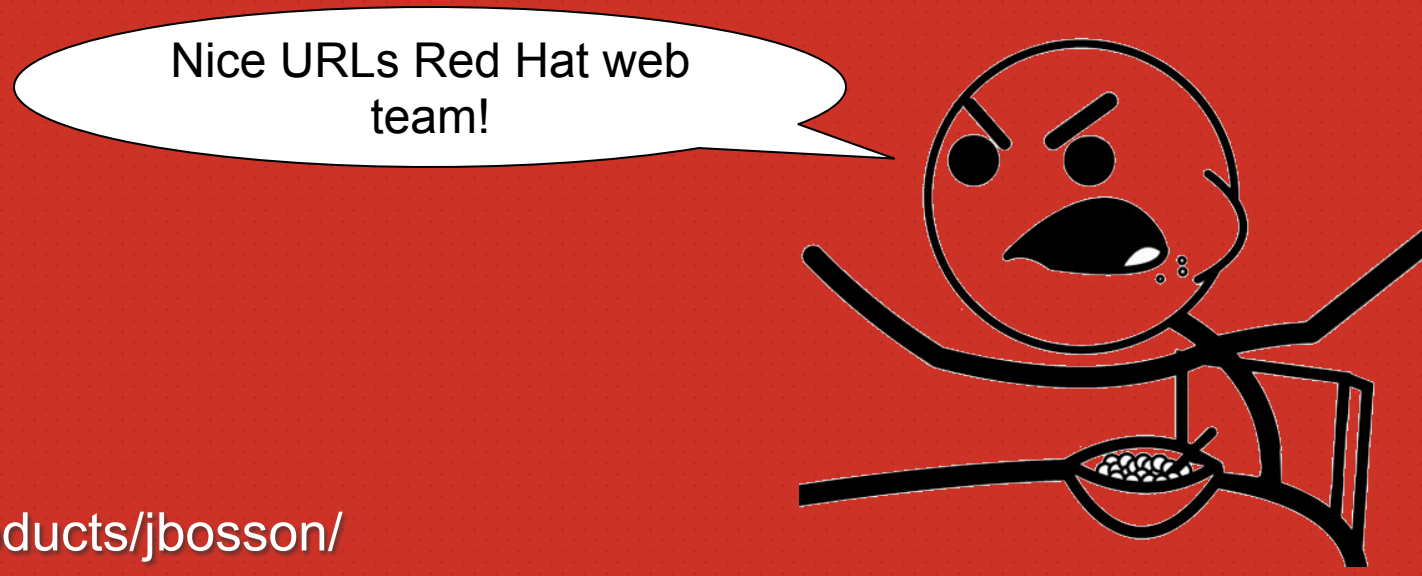
GWT Rewrite

Roadmap

Develop

http://rhq-project.org

#rhq on freenode



Support

http://www.jboss.com/products/jbosson/

https://jboss.webex.com/jboss/lsr.php?AT=pb&SP=EC&rID=35406382&rKey=d729bcf7714da9e5

Customize

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