Hyperic HQ

北京铸锐数码科技有限公司

InnovateDigital

Hyperic HQ 简介

Hyperic HQ 是一个工业级的Web基础设施监控和管理软件

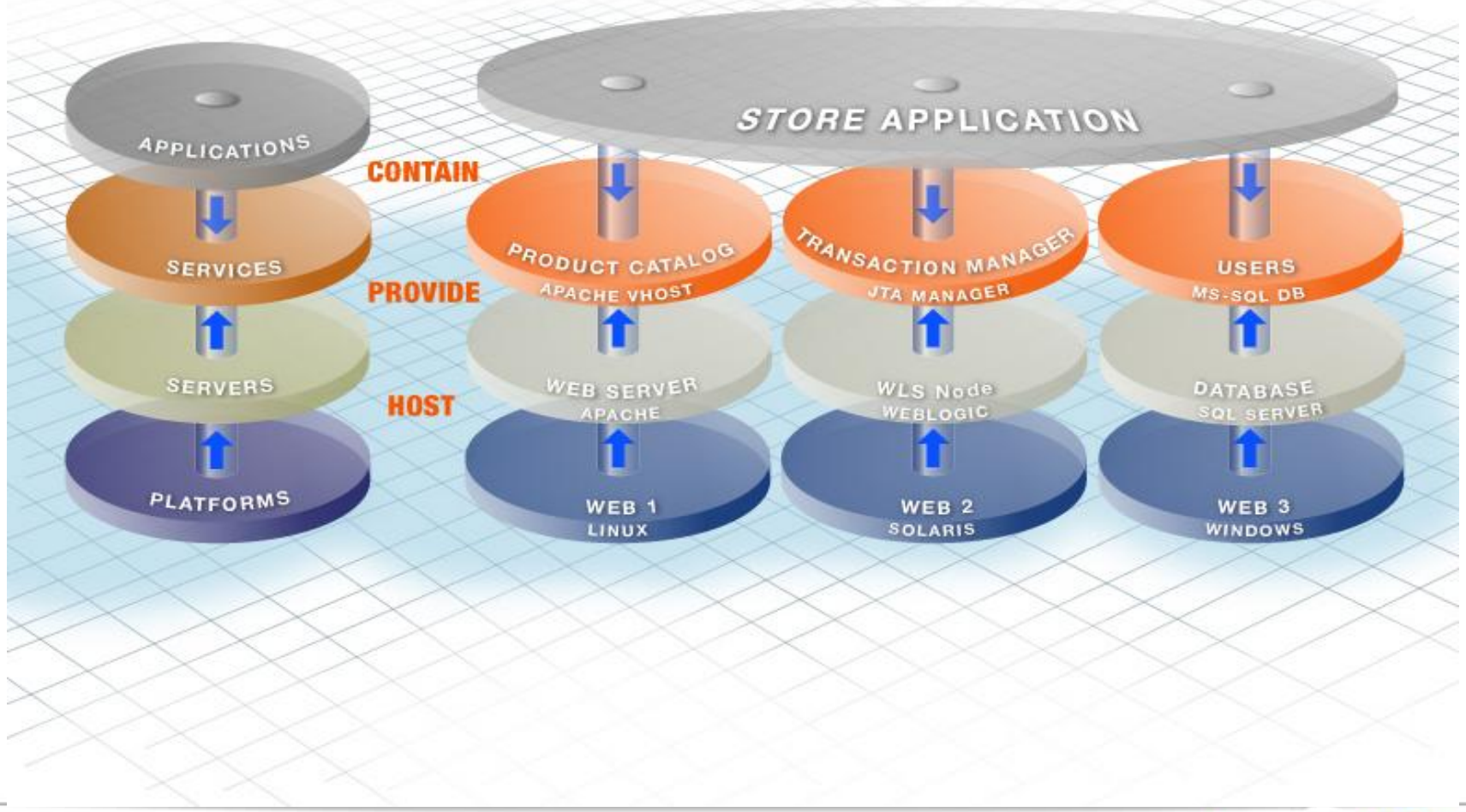
HQ 管理的产品

Operating System	Linux, Windows, Solaris, AIX, HP/UX, FreeBSD, Mac
Middleware	JBoss, Tomcat, IBM Websphere, BEA Weblogic, Oracle OAS, IBM MQ, GlassFish, .NET, Resin, memcache, ActiveMQ, ServiceMix, Cold Fusion, Silverstream, etc.
Databases	Oracle, MySQL, MS-SQL, PostgreSQL, Sybase, IBM DB2
Web Servers	Apache, SunONE/iPlanet, IIS, lighthttpd
Virtualization	VMware ESX/Server, Citrix Metaframe, Solaris Zones, Xen Enterprise
Network Devices	SNMP, Cisco IOS, Cisco PixOS, NetScaler, F5
Custom	SQL, JMX, SNMP, Perl/Ruby/Python

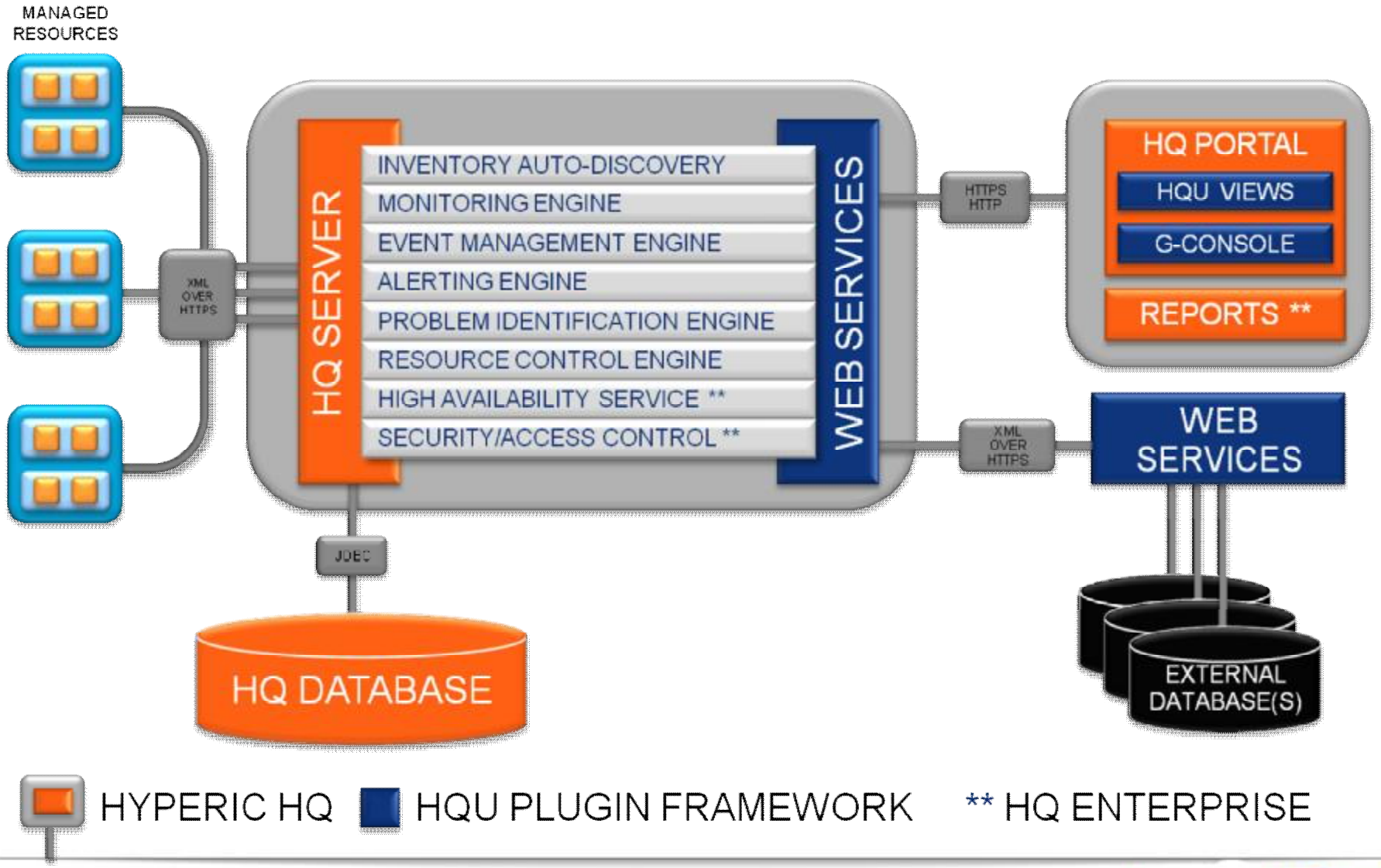
HQ关键优势

- 自动发现所有软件和硬件资源
- 监测基础设施的每一层
- 跟踪性能，配置和安全变化
- 在问题发生之前，报警并纠正问题
- 通过扩展，定制更好地满足独特的环境需求

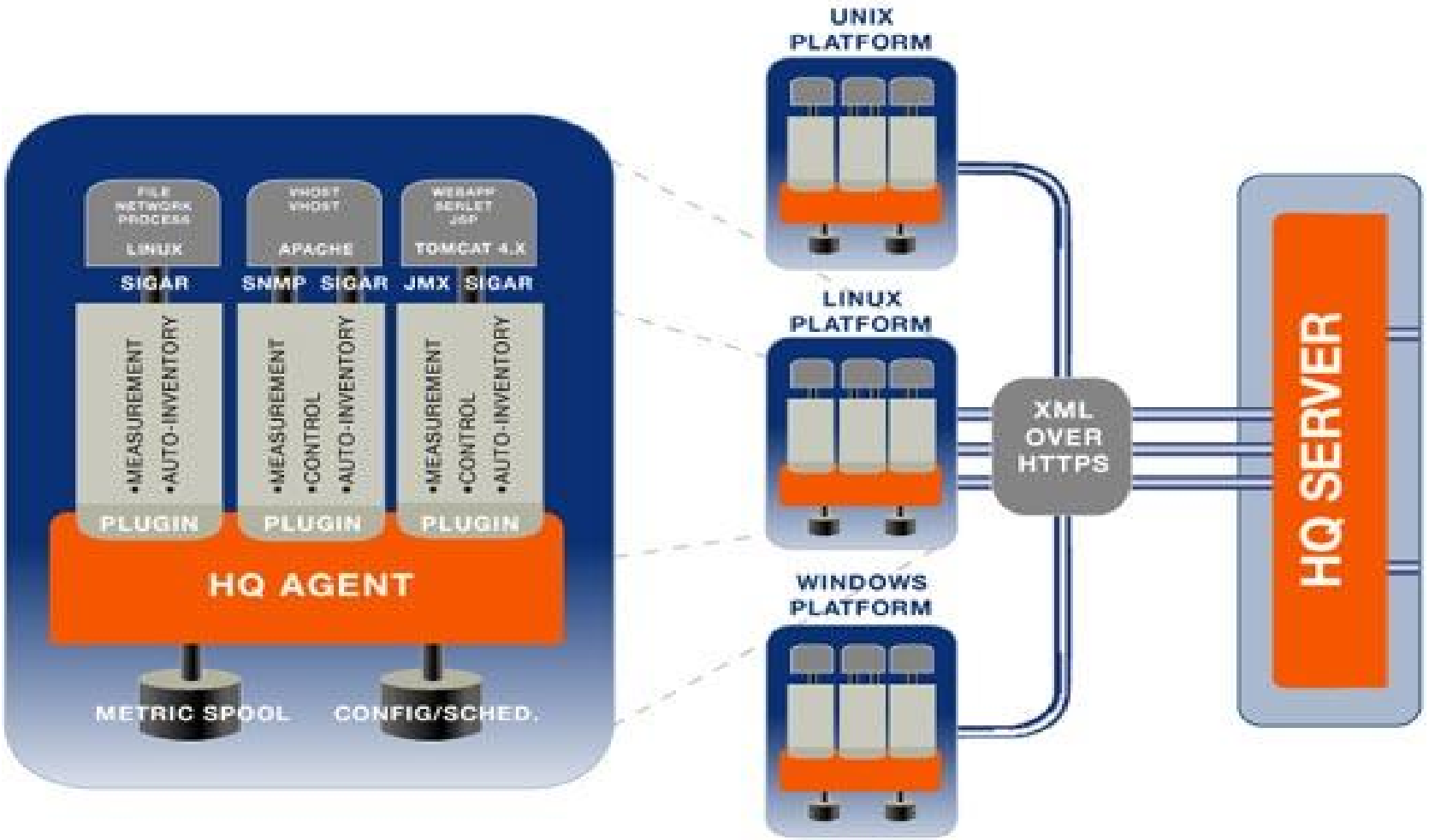
HQ Inventory 模型



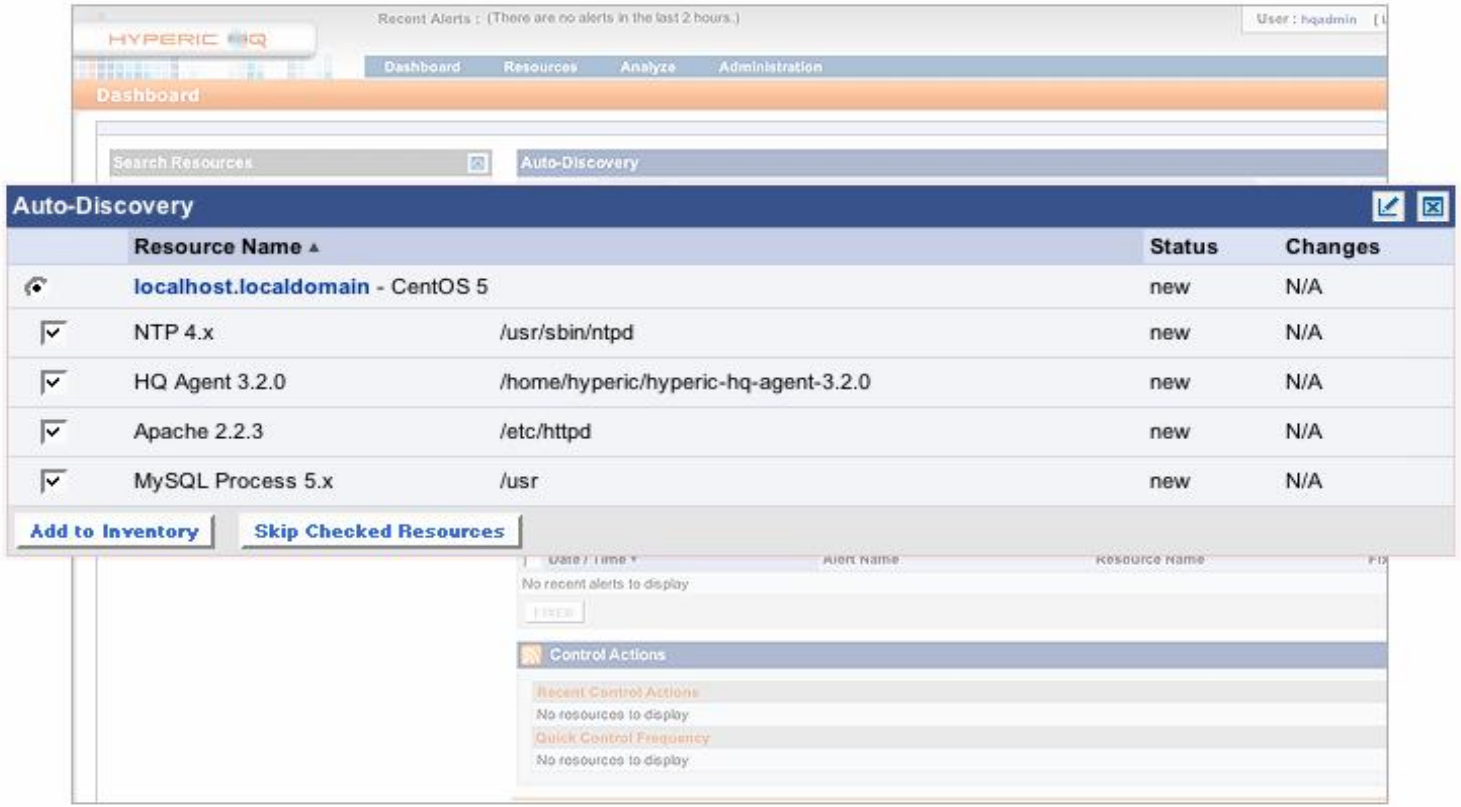
HQ 体系结构--服务器


MANAGED RESOURCES
XML OVER HTTPS
HQ SERVER
INVENTORY AUTO-DISCOVERY
MONITORING ENGINE
EVENT MANAGEMENT ENGINE
ALERTING ENGINE
PROBLEM IDENTIFICATION ENGINE
RESOURCE CONTROL ENGINE
HIGH AVAILABILITY SERVICE **
SECURITY/ACCESS CONTROL **
WEB SERVICES
HTTPS HTTP
HQ PORTAL
HQU VIEWS
G-CONSOLE
REPORTS **
XML OVER HTTPS
WEB SERVICES
JDBC
HQ DATABASE
EXTERNAL DATABASE(S)
HYPERIC HQ
HQU PLUGIN FRAMEWORK
** HQ ENTERPRISE

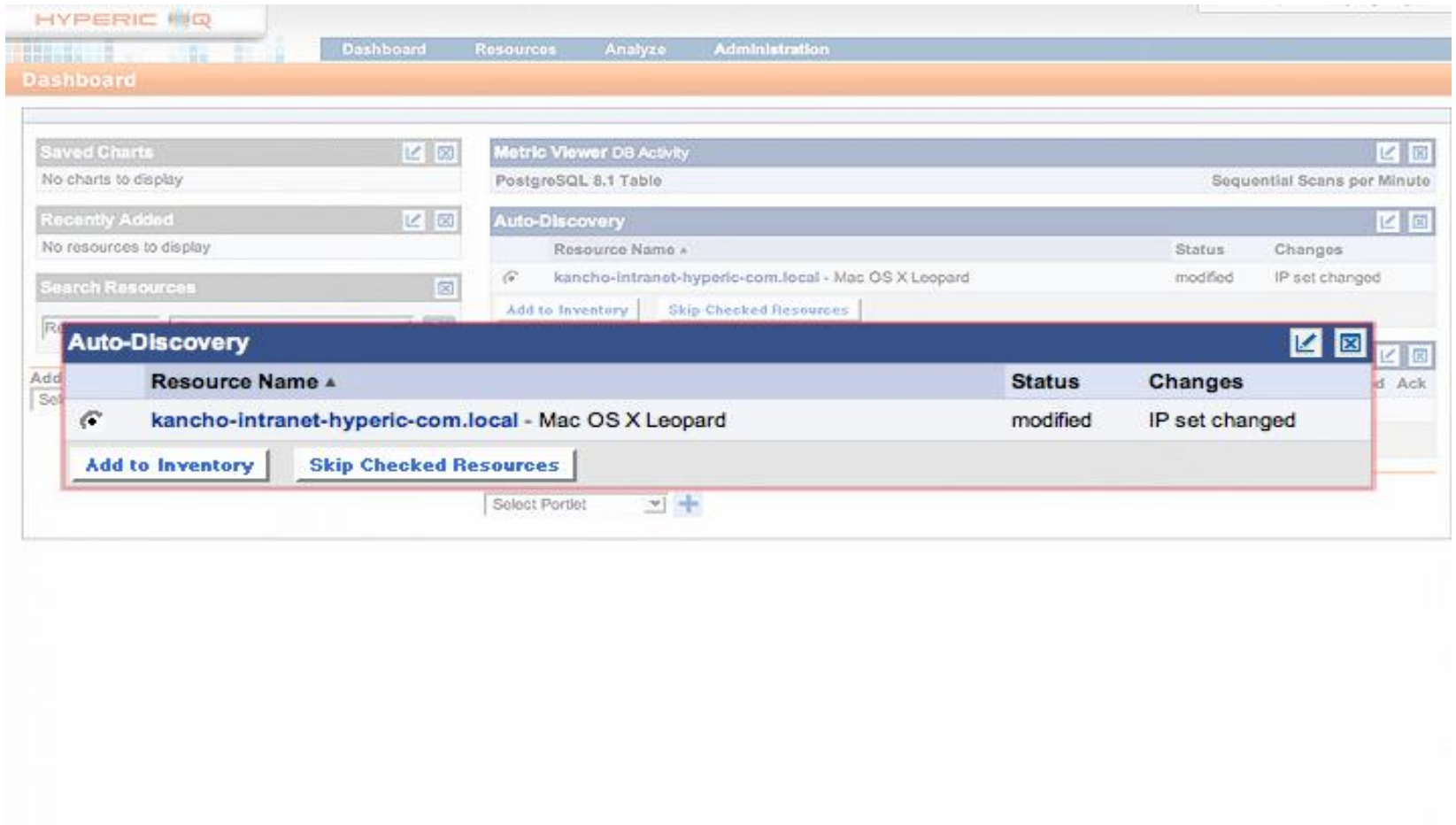
HQ 体系结构--Agent



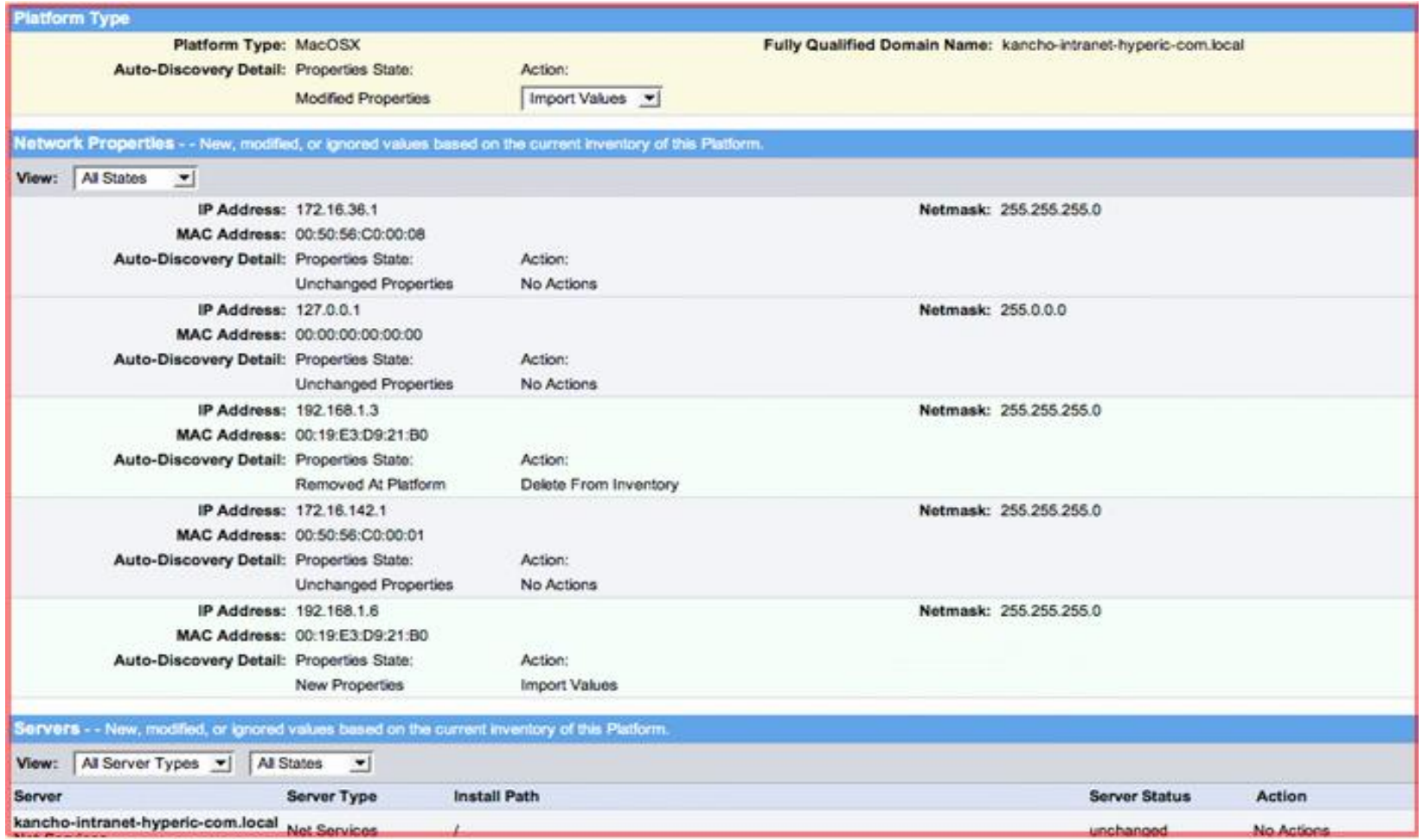
自动发现


HYPERIC HQ
Recent Alerts : (There are no alerts in the last 2 hours.)
User : hqadmin
Dashboard
Resources
Analyze
Administration
Dashboard
Search Resources
Auto-Discovery
Auto-Discovery
Resource Name
Status
Changes
localhost.localdomain - CentOS 5
new
N/A
NTP 4.x
/usr/sbin/ntpd
new
N/A
HQ Agent 3.2.0
/home/hyperic/hyperic-hq-agent-3.2.0
new
N/A
Apache 2.2.3
/etc/httpd
new
N/A
MySQL Process 5.x
/usr
new
N/A
Add to Inventory
Skip Checked Resources
No recent alerts to display
Control Actions
No resources to display
No resources to display

自动发现


HYPERIC HQ
Dashboard
Resources
Analyze
Administration
Dashboard
Saved Charts
No charts to display
Recently Added
No resources to display
Search Resources
Metric Viewer DB Activity
PostgreSQL 8.1 Table
Sequential Scans per Minute
Auto-Discovery
Resource Name
Status
Changes
kancho-intranet-hyperic-com.local - Mac OS X Leopard
modified
IP set changed
Add to Inventory
Skip Checked Resources
Auto-Discovery
Resource Name
Status
Changes
kancho-intranet-hyperic-com.local - Mac OS X Leopard
modified
IP set changed
Add to Inventory
Skip Checked Resources
Select Portlet

自动发现



Platform Type

Platform Type: MacOSX — **Fully Qualified Domain Name:** kancho-intranet-hyperic-com.local

Auto-Discovery Detail: Properties State: Modified Properties — Action: Import Values

Network Properties - - New, modified, or ignored values based on the current inventory of this Platform.

View: All States

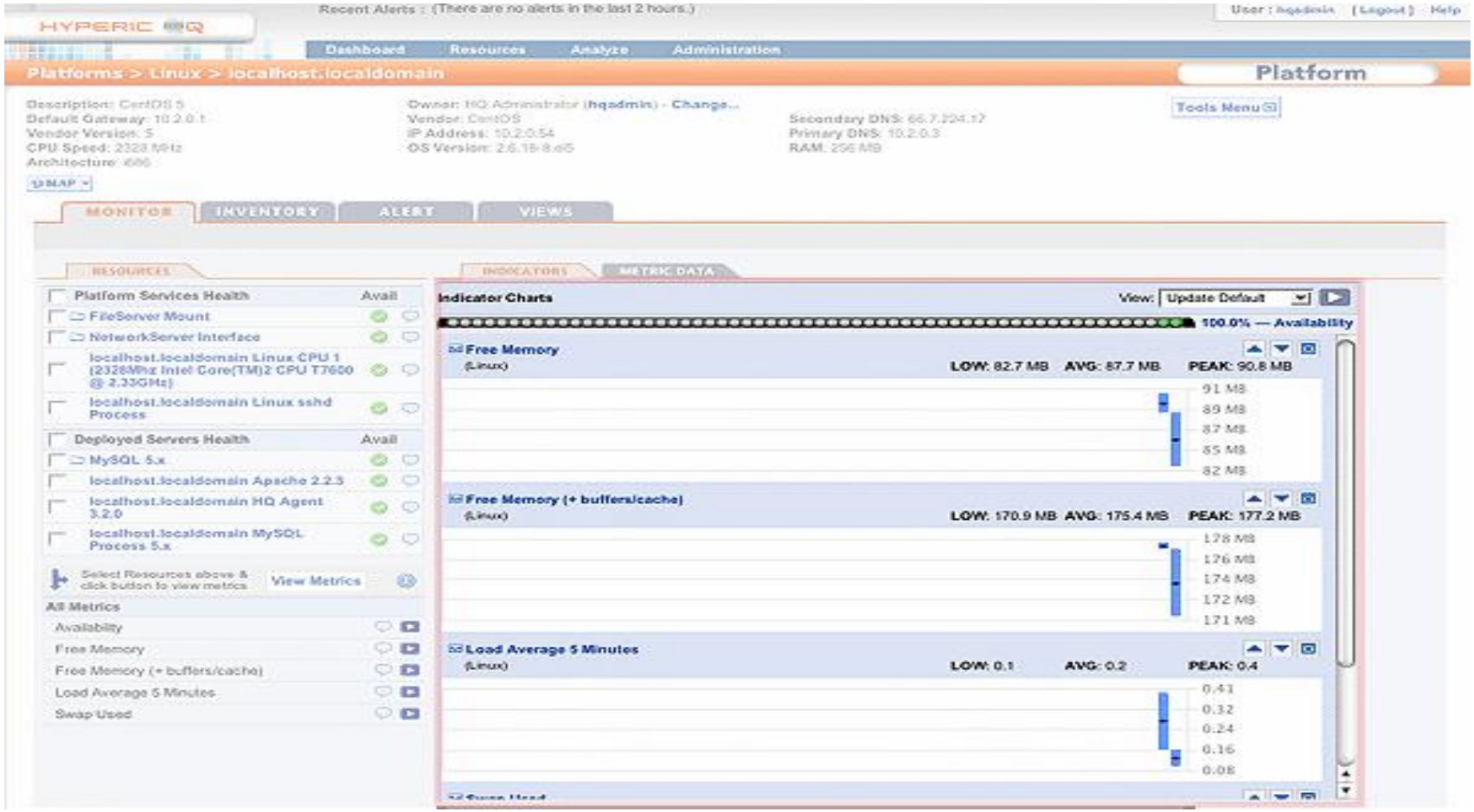
IP Address:	172.16.36.1		**Netmask:** 255.255.255.0
MAC Address:	00:50:56:C0:00:08		
Auto-Discovery Detail:	Properties State: Unchanged Properties	Action: No Actions	
IP Address:	127.0.0.1		**Netmask:** 255.0.0.0
MAC Address:	00:00:00:00:00:00		
Auto-Discovery Detail:	Properties State: Unchanged Properties	Action: No Actions	
IP Address:	192.168.1.3		**Netmask:** 255.255.255.0
MAC Address:	00:19:E3:D9:21:B0		
Auto-Discovery Detail:	Properties State: Removed At Platform	Action: Delete From Inventory	
IP Address:	172.16.142.1		**Netmask:** 255.255.255.0
MAC Address:	00:50:56:C0:00:01		
Auto-Discovery Detail:	Properties State: Unchanged Properties	Action: No Actions	
IP Address:	192.168.1.6		**Netmask:** 255.255.255.0
MAC Address:	00:19:E3:D9:21:B0		
Auto-Discovery Detail:	Properties State: New Properties	Action: Import Values	

Servers - - New, modified, or ignored values based on the current inventory of this Platform.

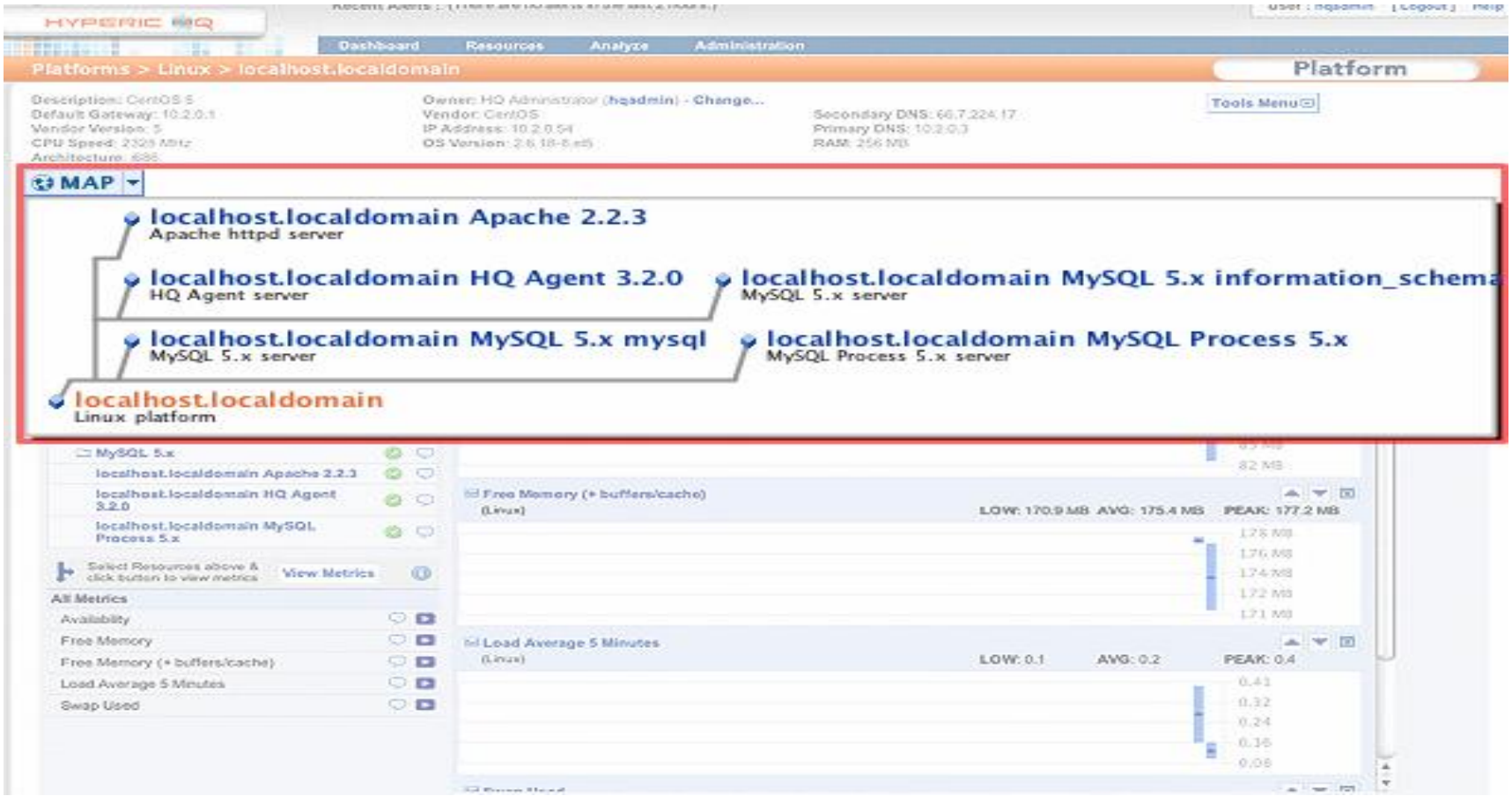
View: All Server Types | All States

Server	Server Type	Install Path	Server Status	Action
kancho-intranet-hyperic-com.local	Net Services	/	unchanged	No Actions

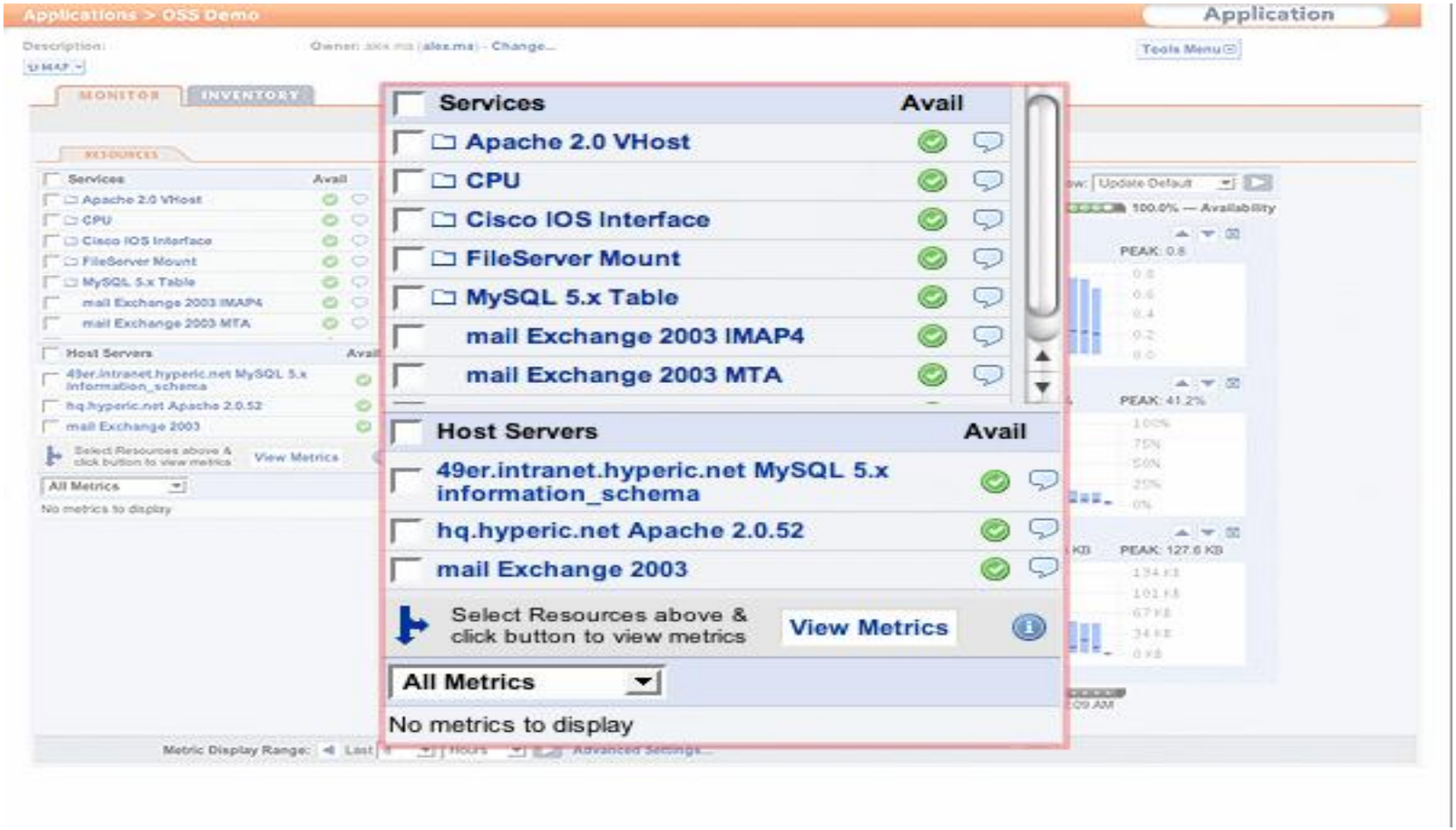
自动发现


HYPERIC HQ
Recent Alerts : (There are no alerts in the last 2 hours.)
Dashboard
Resources
Analyze
Administration
Platforms > Linux > localhost.localdomain
Platform
MONITOR
INVENTORY
ALERT
VIEWS
Platform Services Health
Avail
FileServer Mount
NetworkServer Interface
localhost.localdomain Linux CPU 1 (2328Mhz Intel Core(TM)2 CPU T7600 @ 2.33GHz)
localhost.localdomain Linux sshd Process
Deployed Servers Health
MySQL 5.x
localhost.localdomain Apache 2.2.3
localhost.localdomain HQ Agent 3.2.0
localhost.localdomain MySQL Process 5.x
View Metrics
All Metrics
Availability
Free Memory
Free Memory (+ buffers/cache)
Load Average 5 Minutes
Swap Used
Indicator Charts
View: Update Default
100.0% — Availability
Free Memory
(Linux)
LOW: 82.7 MB
AVG: 87.7 MB
PEAK: 90.8 MB
91 MB
89 MB
87 MB
85 MB
82 MB
Free Memory (+ buffers/cache)
(Linux)
LOW: 170.9 MB
AVG: 175.4 MB
PEAK: 177.2 MB
178 MB
176 MB
174 MB
172 MB
171 MB
Load Average 5 Minutes
(Linux)
LOW: 0.1
AVG: 0.2
PEAK: 0.4
0.41
0.32
0.24
0.16
0.08

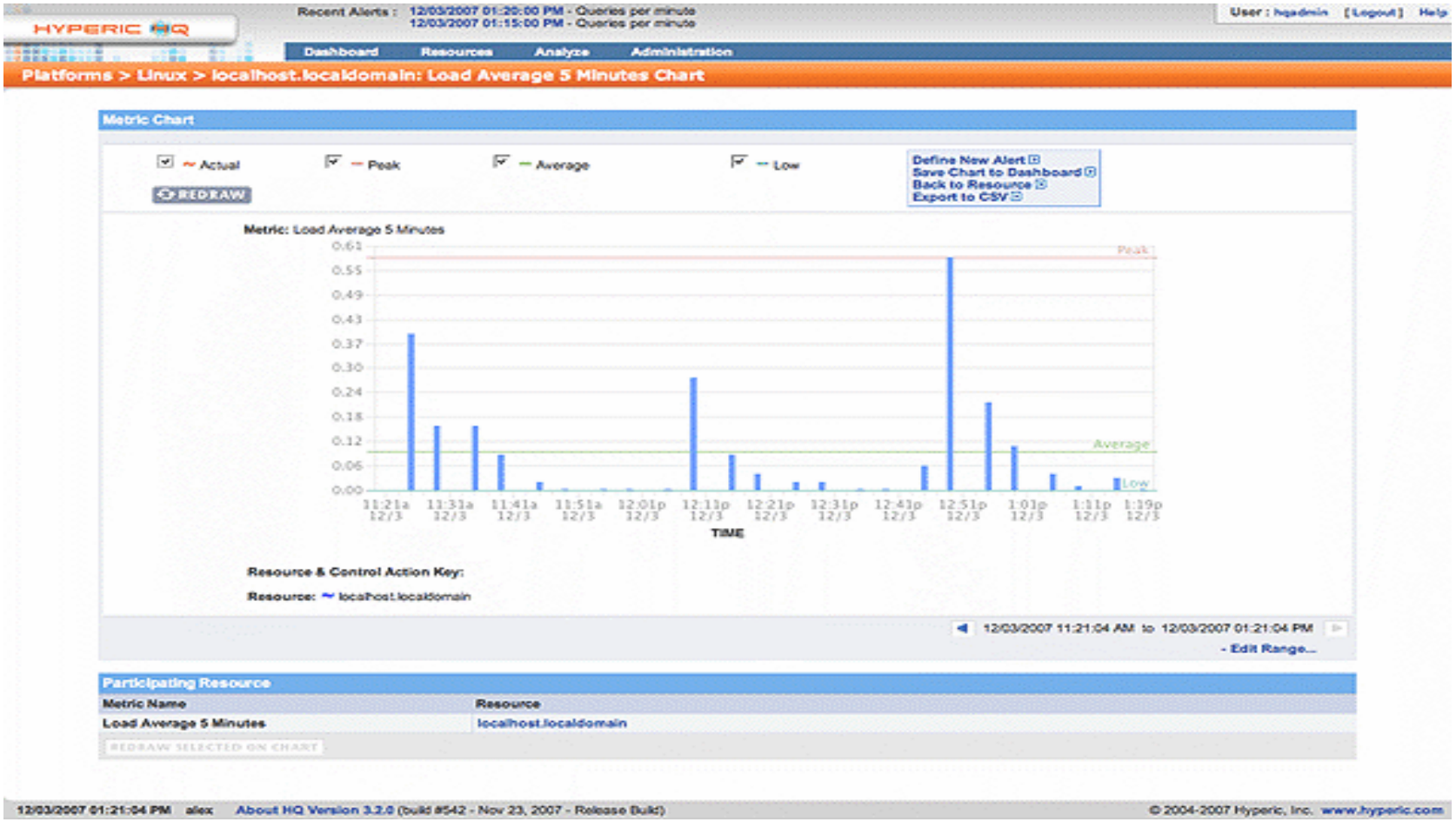
自动发现


HYPERIC HQ
Dashboard
Resources
Analyze
Administration
Platforms > Linux > localhost.localdomain
Platform
Tools Menu
MAP
localhost.localdomain Apache 2.2.3
Apache httpd server
localhost.localdomain HQ Agent 3.2.0
HQ Agent server
localhost.localdomain MySQL 5.x information_schema
MySQL 5.x server
localhost.localdomain MySQL 5.x mysql
MySQL 5.x server
localhost.localdomain MySQL Process 5.x
MySQL Process 5.x server
localhost.localdomain
Linux platform
Free Memory (+ buffers/cache)
LOW: 170.9 MB AVG: 175.4 MB PEAK: 177.2 MB
Load Average 5 Minutes
LOW: 0.1 AVG: 0.2 PEAK: 0.4

监控


Applications > OSS Demo
Application
Services
Avail
Apache 2.0 VHost
CPU
Cisco IOS Interface
FileServer Mount
MySQL 5.x Table
mail Exchange 2003 IMAP4
mail Exchange 2003 MTA
Host Servers
Avail
49er.intranet.hyperic.net MySQL 5.x information_schema
hq.hyperic.net Apache 2.0.52
mail Exchange 2003
Select Resources above & click button to view metrics
View Metrics
All Metrics
No metrics to display

监控


HYPERIC HQ
Recent Alerts : 12/03/2007 01:20:00 PM - Queries per minute
12/03/2007 01:15:00 PM - Queries per minute
User : hqadmin [Logout] Help
Dashboard Resources Analyze Administration
Platforms > Linux > localhost.localdomain: Load Average 5 Minutes Chart
Metric Chart
Actual Peak Average Low
REDRAW
Define New Alert
Save Chart to Dashboard
Back to Resource
Export to CSV
Metric: Load Average 5 Minutes
0.61
0.55
0.49
0.43
0.37
0.30
0.24
0.18
0.12
0.06
0.00
Peak
Average
Low
11:21a 12/3
11:31a 12/3
11:41a 12/3
11:51a 12/3
12:01p 12/3
12:11p 12/3
12:21p 12/3
12:31p 12/3
12:41p 12/3
12:51p 12/3
1:01p 12/3
1:11p 12/3
1:19p 12/3
TIME
Resource & Control Action Key:
Resource: localhost.localdomain
12/03/2007 11:21:04 AM to 12/03/2007 01:21:04 PM
- Edit Range...
Participating Resource
Metric Name
Resource
Load Average 5 Minutes
localhost.localdomain
REDRAW SELECTED ON CHART
12/03/2007 01:21:04 PM alex About HQ Version 3.2.0 (build #542 - Nov 23, 2007 - Release Build)
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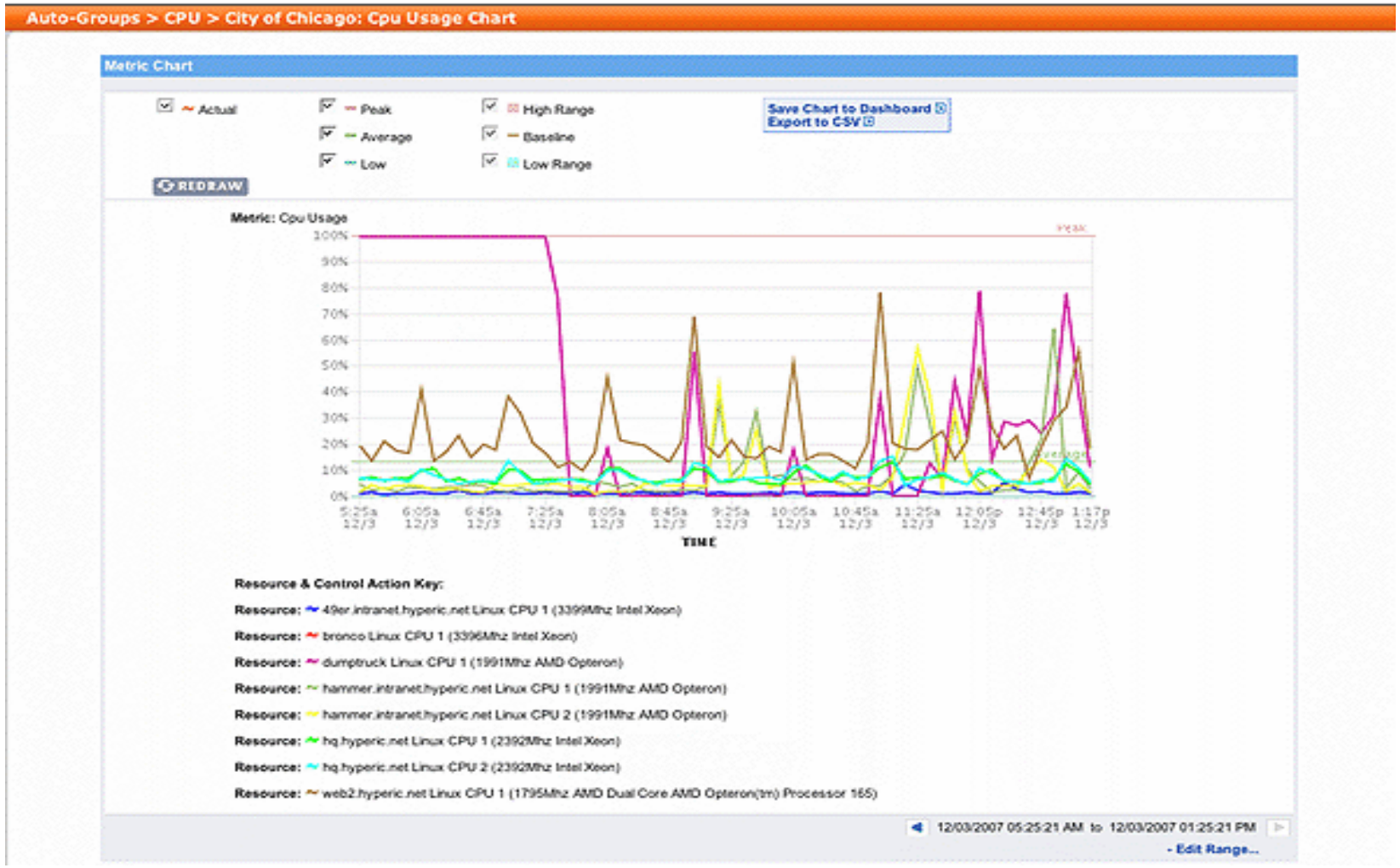
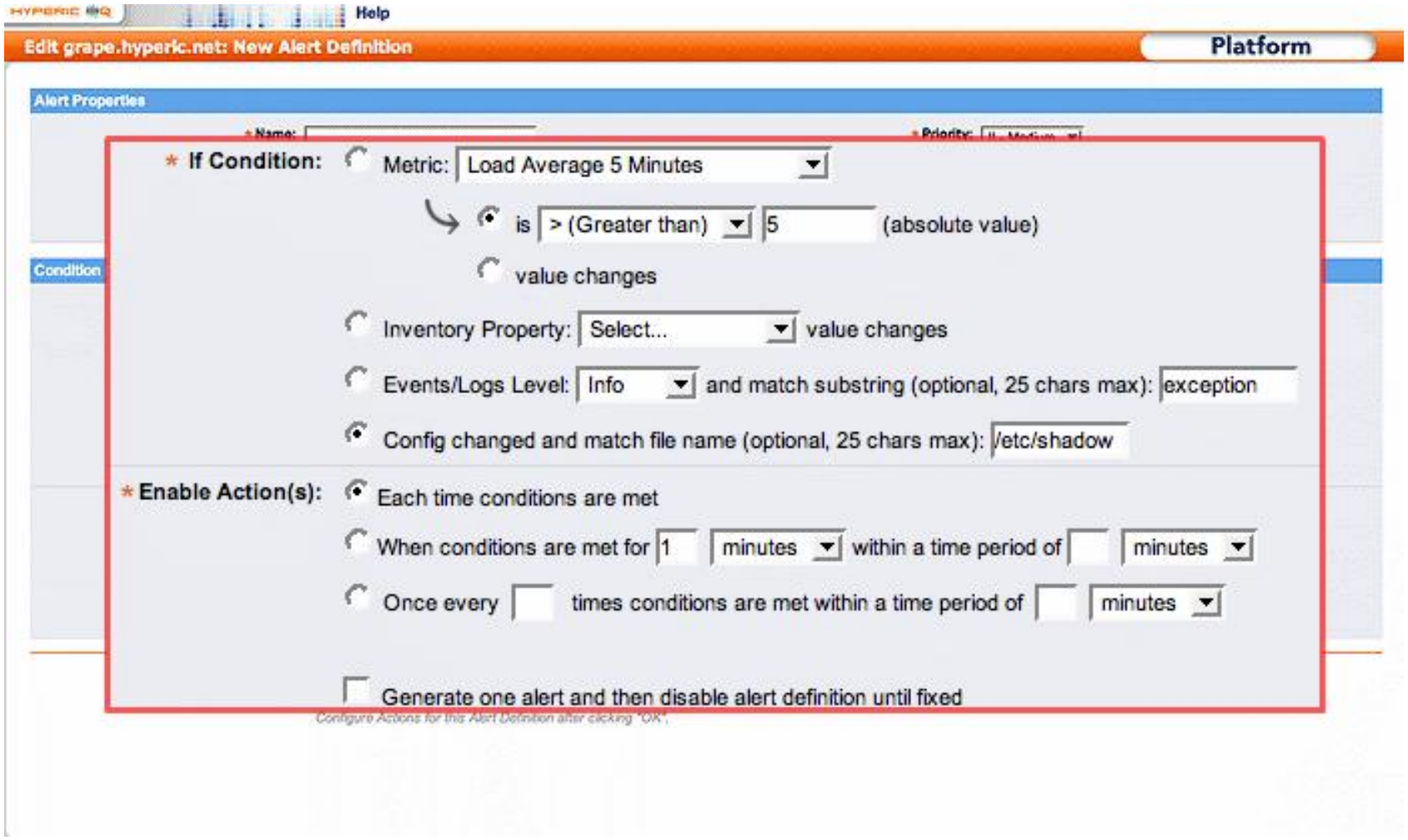
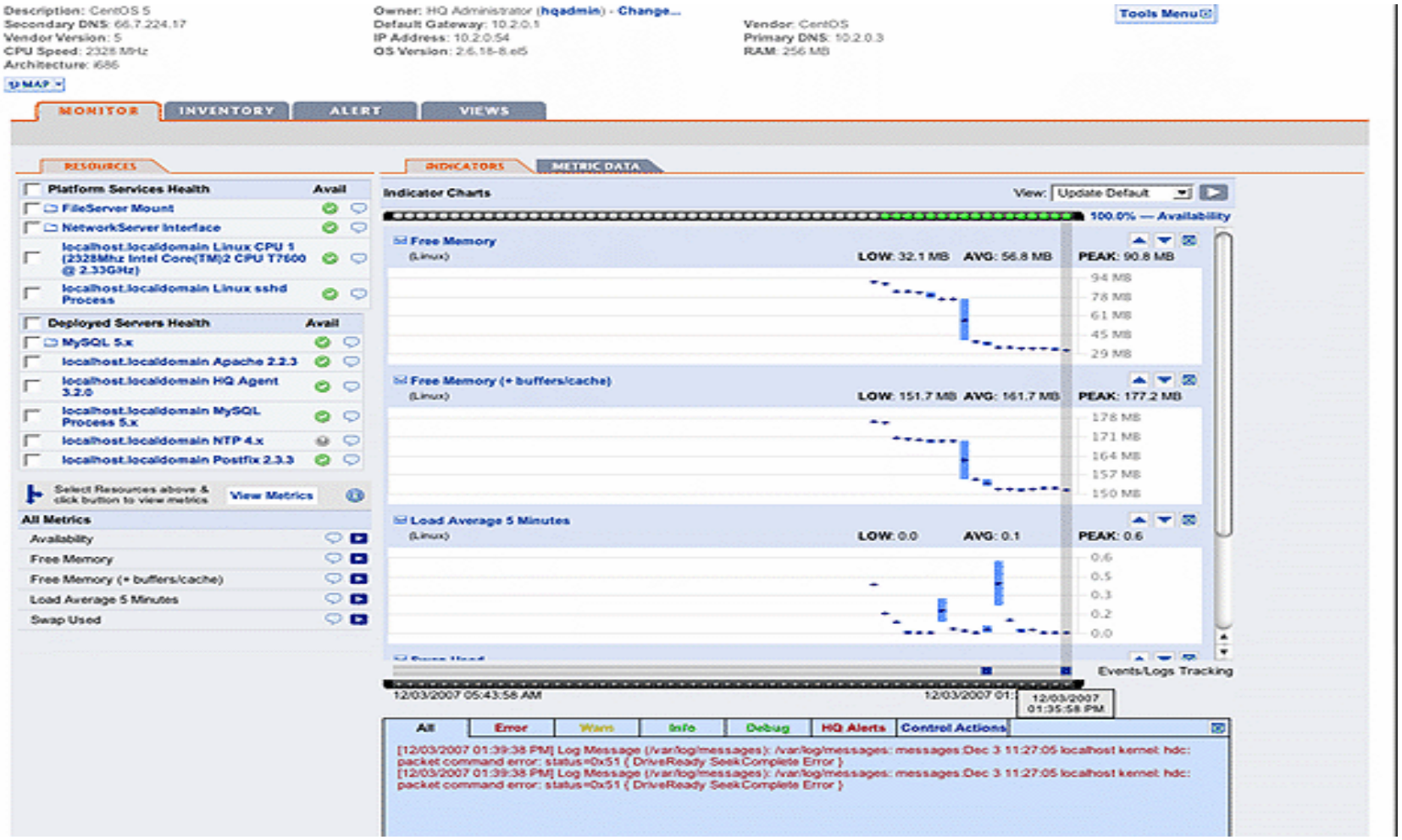
监控


Auto-Groups > CPU > City of Chicago: Cpu Usage Chart
Metric Chart
Actual
Peak
Average
Low
High Range
Baseline
Low Range
Save Chart to Dashboard
Export to CSV
REDRAW
Metric: Cpu Usage
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
5:25a 12/3
6:05a 12/3
6:45a 12/3
7:25a 12/3
8:05a 12/3
8:45a 12/3
9:25a 12/3
10:05a 12/3
10:45a 12/3
11:25a 12/3
12:05p 12/3
12:45p 12/3
1:17p 12/3
TIME
Resource & Control Action Key:
Resource: 49er.intranet.hyperic.net Linux CPU 1 (3399Mhz Intel Xeon)
Resource: bronco Linux CPU 1 (3396Mhz Intel Xeon)
Resource: dumptruck Linux CPU 1 (1991Mhz AMD Opteron)
Resource: hammer.intranet.hyperic.net Linux CPU 1 (1991Mhz AMD Opteron)
Resource: hammer.intranet.hyperic.net Linux CPU 2 (1991Mhz AMD Opteron)
Resource: hq.hyperic.net Linux CPU 1 (2392Mhz Intel Xeon)
Resource: hq.hyperic.net Linux CPU 2 (2392Mhz Intel Xeon)
Resource: web2.hyperic.net Linux CPU 1 (1795Mhz AMD Dual Core AMD Opteron(tm) Processor 165)
12/03/2007 05:25:21 AM to 12/03/2007 01:25:21 PM
- Edit Range...

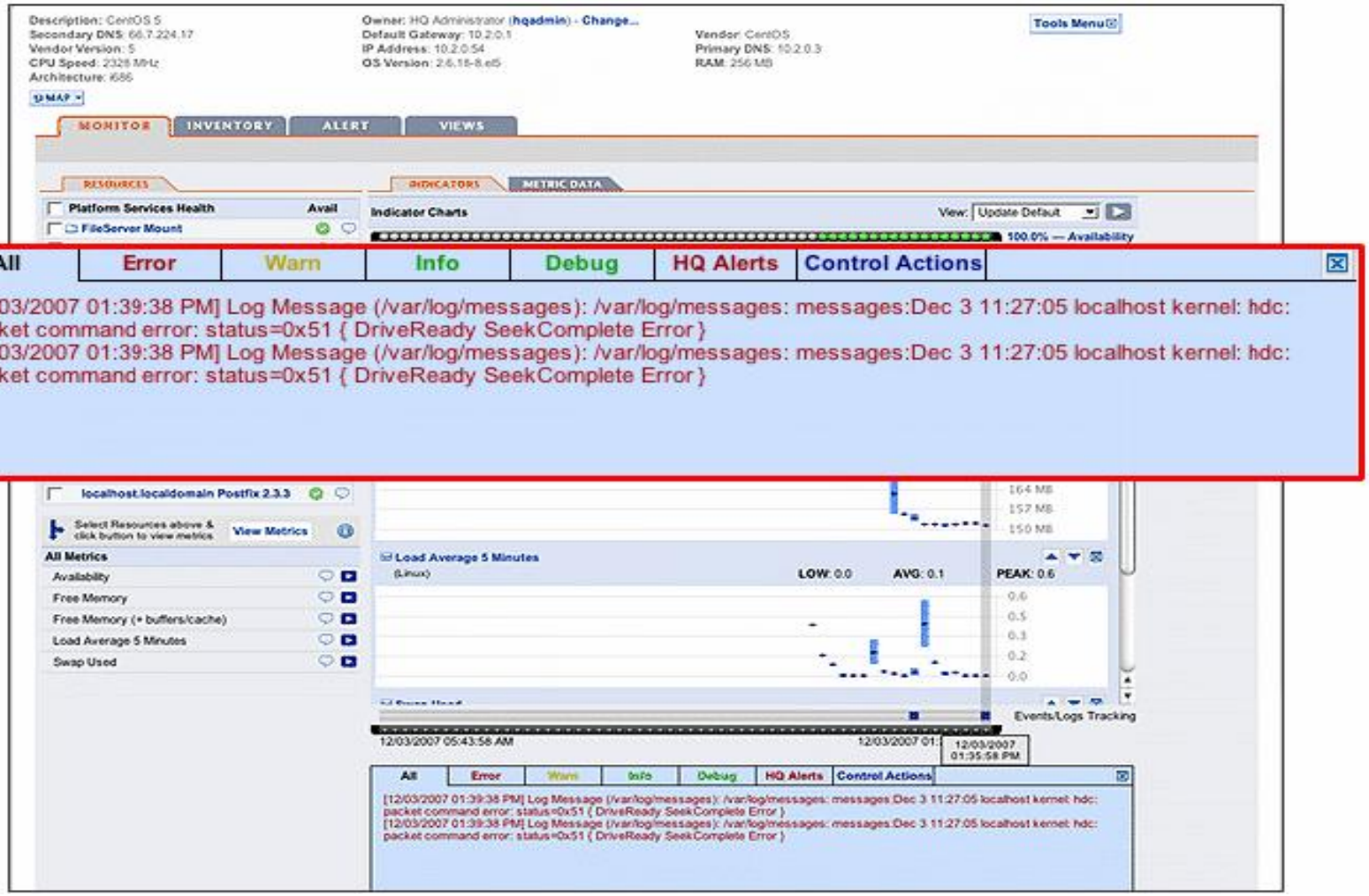
强大的报警功能


Help
Edit grape.hyperic.net: New Alert Definition
Platform
Alert Properties
Condition
* If Condition:
Metric: Load Average 5 Minutes
is > (Greater than) 5 (absolute value)
value changes
Inventory Property: Select... value changes
Events/Logs Level: Info and match substring (optional, 25 chars max): exception
Config changed and match file name (optional, 25 chars max): /etc/shadow
* Enable Action(s):
Each time conditions are met
When conditions are met for 1 minutes within a time period of minutes
Once every times conditions are met within a time period of minutes
Generate one alert and then disable alert definition until fixed

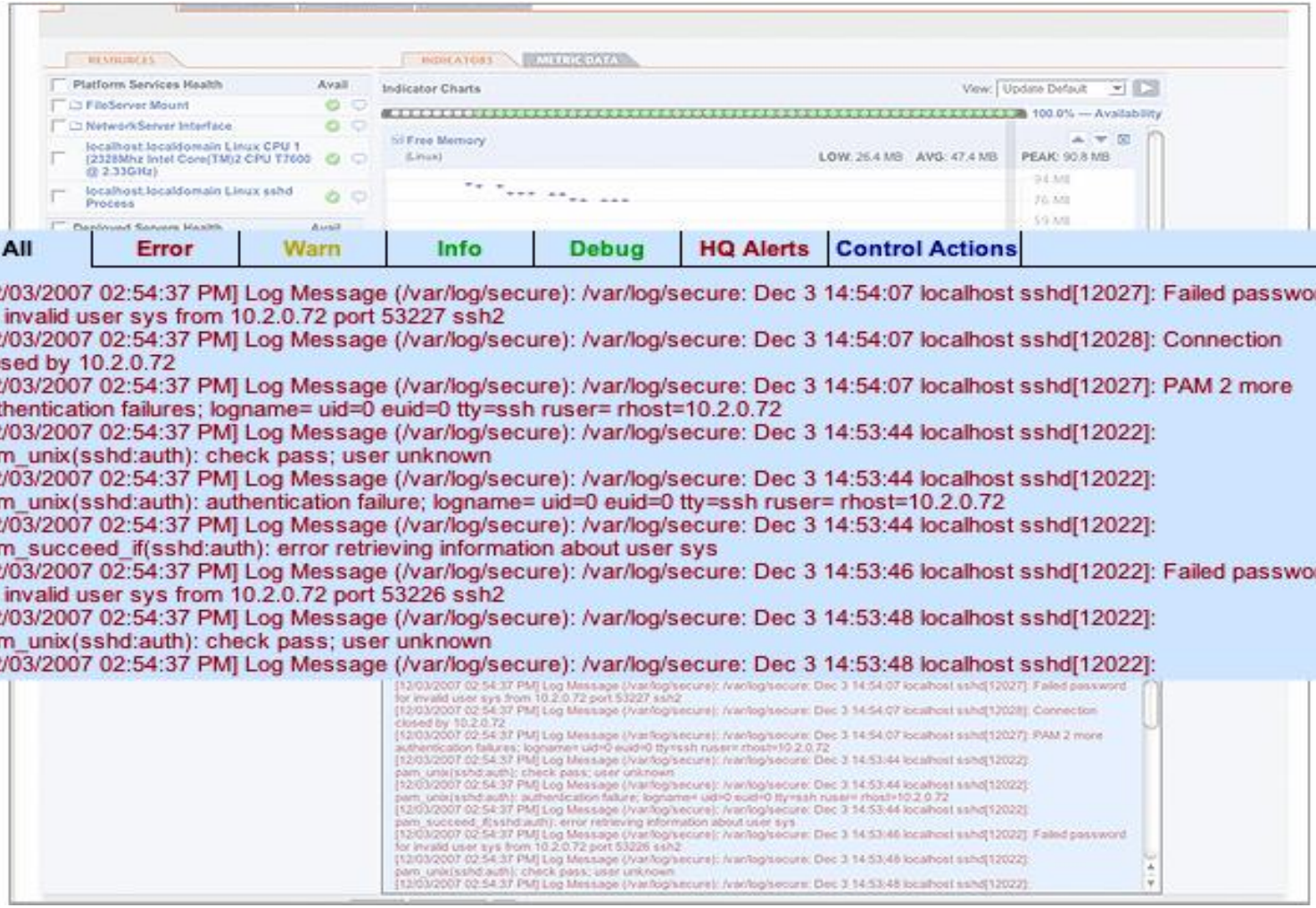
跟踪性能,配置和安全变化



跟踪性能,配置和安全变化



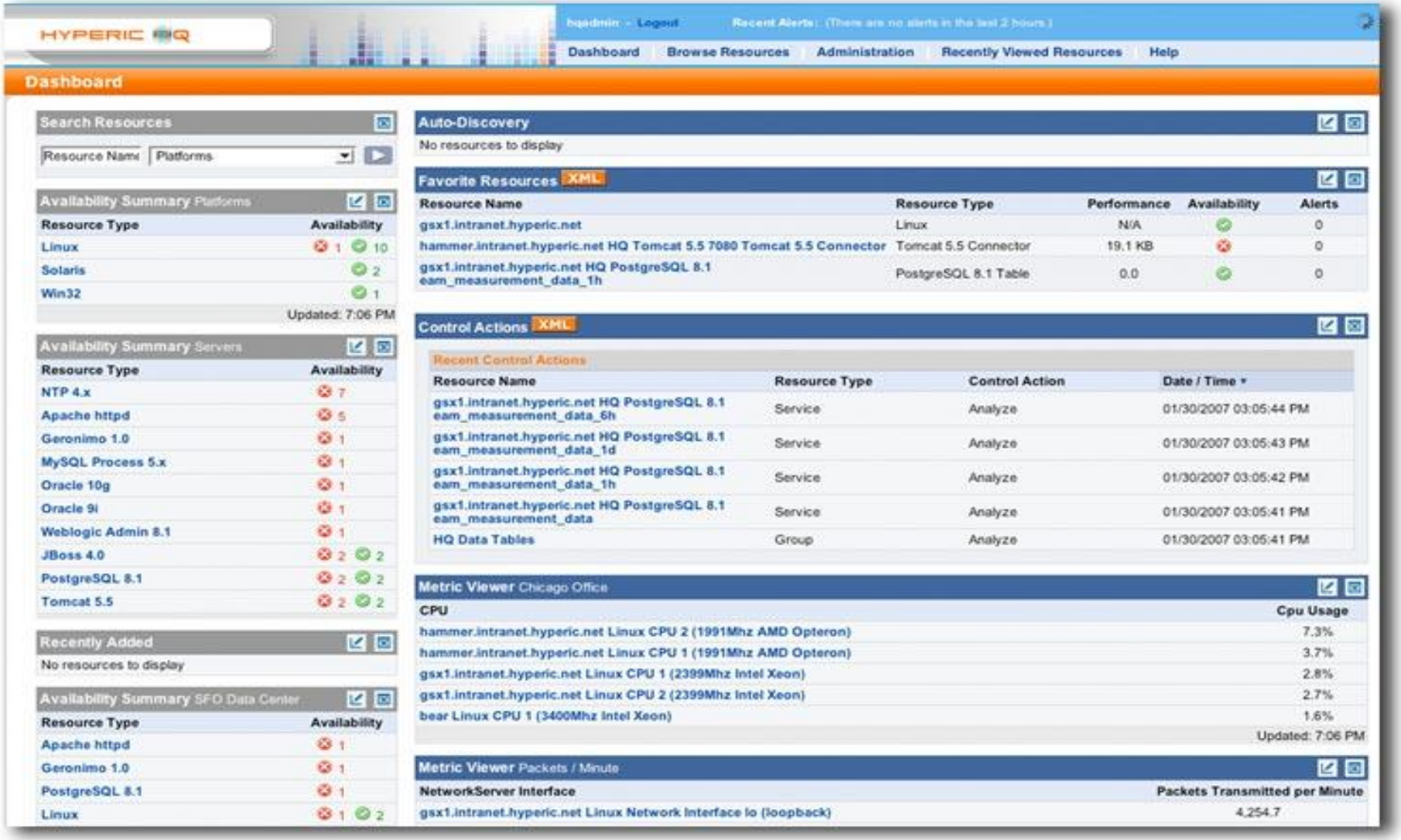
跟踪性能,配置和安全变化



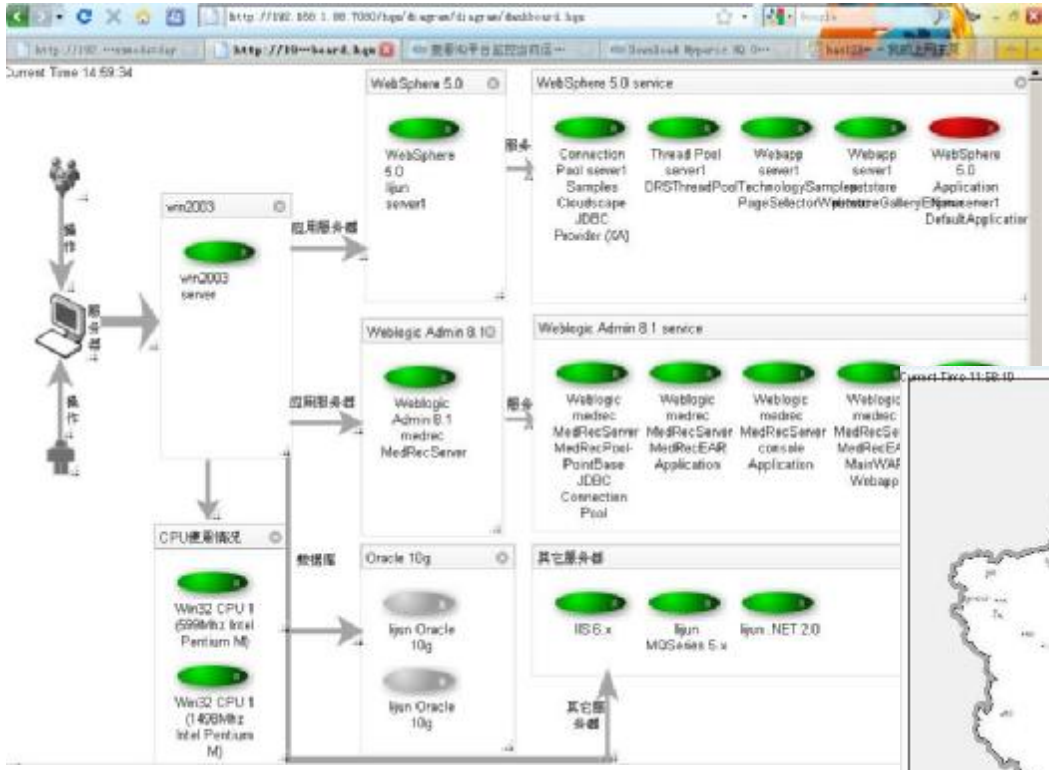
扩展和定制，最优地管理你独特的环境

- 通过可拖放porlets设置控制面板，很容易地使用配置控制
- 创建组，帮助管理和测量大环境的健康
- 通过定义应用的方式进行管理，可以将特定应用所涉及到的特定硬件，软件和服务等作为一个整体进行管理
- 扩展 Hyperic HQ强大的管理Portal，扩展Hyperic HQ强大的管理portal.可以通过易于描述的XML或任何语言与Hyperic 管理插件相配合，扩展到管理所有的软件和硬件设备

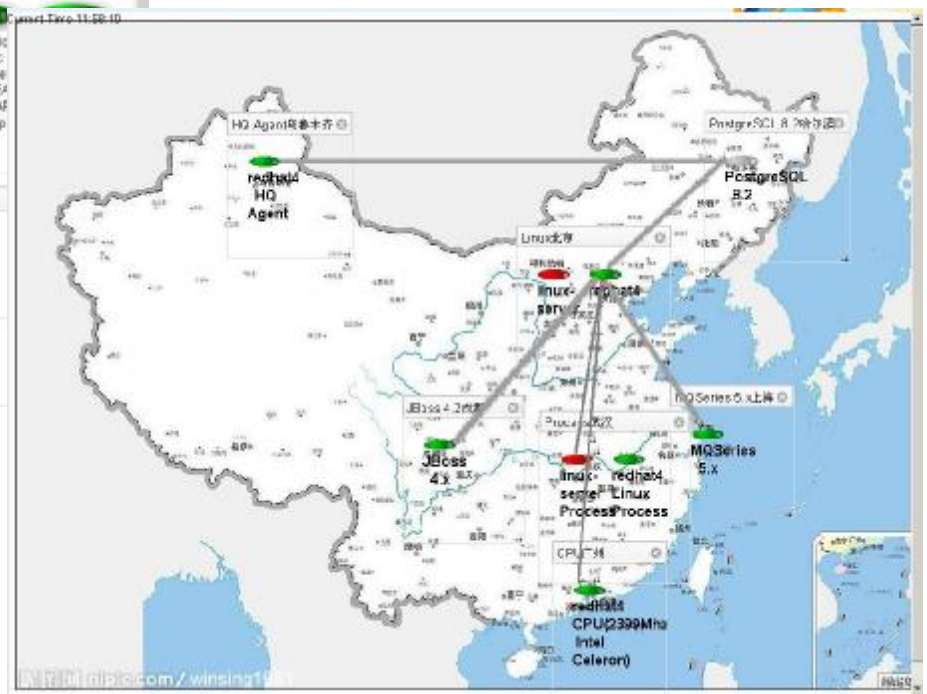
可定制,个性化的管理控制台



拓扑图

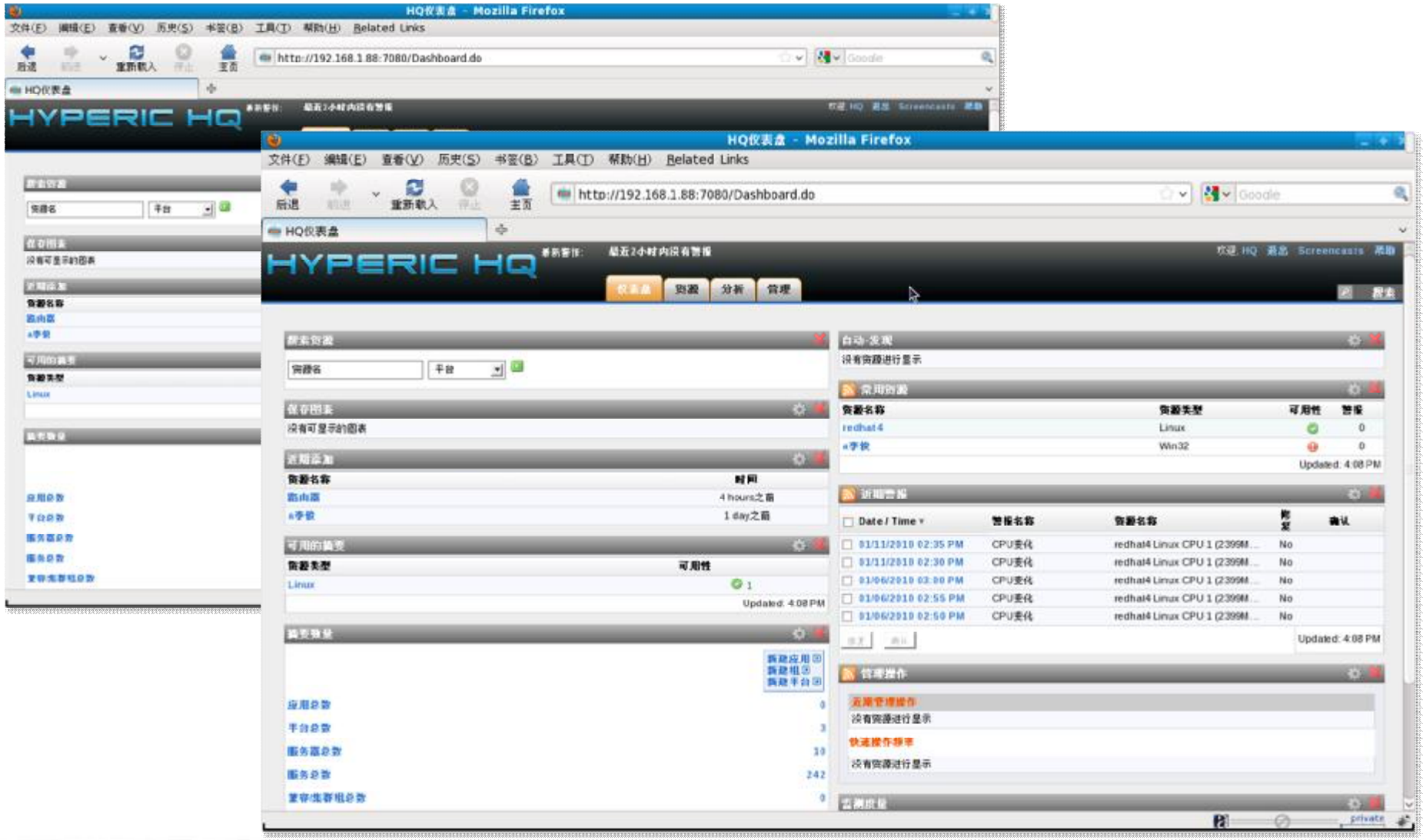


WebSphere 5.0
WebSphere 5.0 service
win2003
Weblogic Admin 8.1
Weblogic Admin 8.1 service
CPU使用情况
Oracle 10g



redhat4 HQ Agent
PostgreSQL 8.2
JBoss 4.x
MQSeries 5.x

中文本地化


HQ仪表盘 - Mozilla Firefox
文件(F) 编辑(E) 查看(V) 历史(S) 书签(B) 工具(T) 帮助(H) Related Links
后退 重新载入 主页
http://192.168.1.88:7080/Dashboard.do
HQ仪表盘
HYPERIC HQ
最近2小时内没有警报
欢迎 HQ 退出 Screencasts 帮助
仪表盘 资源 分析 管理
搜索资源
资源名
平台
没有可显示的图表
自动-发现
没有资源进行显示
常用资源
资源名称 资源类型 可用性 警报
redhat4 Linux 0
e李俊 Win32 0
Updated: 4:08 PM
近期添加
资源名称 时间
路由器 4 hours之前
e李俊 1 day之前
可用的摘要
资源类型 可用性
Linux 1
Updated: 4:08 PM
近期警报
Date / Time 警报名称 资源名称 确认
01/11/2010 02:35 PM CPU变化 redhat4 Linux CPU 1 (2395M... No
01/11/2010 02:30 PM CPU变化 redhat4 Linux CPU 1 (2395M... No
01/06/2010 03:00 PM CPU变化 redhat4 Linux CPU 1 (2395M... No
01/06/2010 02:55 PM CPU变化 redhat4 Linux CPU 1 (2395M... No
01/06/2010 02:50 PM CPU变化 redhat4 Linux CPU 1 (2395M... No
Updated: 4:08 PM
管理操作
没有资源进行显示
没有资源进行显示
新建应用
新建组
新建平台
应用总数 0
平台总数 3
服务器总数 10
服务总数 242
兼容集群组总数 0
private

网络设备指标

System Supported Versions

Network Device Server

Network Host Server

Cisco IOS Server

Cisco PIXOS Server

Network Device, Network Host, Cisco IOS and Cisco PIXOS Interface Metrics

Availability, Operational Status

Admin Status,Last Change

Bytes Received

Bytes Received per Minute

Bits Received

Bits Received per Second

Inbound Packets

Inbound Packets per Second

Inbound Multicast Packets

Inbound Multicast Packets per Second

Inbound Packet Discards

Inbound Packet Discards per Second

Inbound Errors

Inbound Errors per Second

Bytes Sent

Bytes Sent per Minute

Bits Sent

Bits Sent per Second

Outbound Packets

Outbound Packets per Second

Outbound Multicast Packets

Outbound Multicast Packets per Second

Outbound Packet Discards

Outbound Packet Discards per Second

Outbound Errors

Outbound Errors per Second

Outbound Packets Queues

Outbound Packets Queues per Secon

网络服务监控指标

NTP, DHCP and RPC Metrics

DNS, SSH, DHCP and RPC Metrics

LDAP, SSH, DHCP and RPC Metrics

POP3, IMAP, SMTP, FTP, SSH, DHCP and RPC Metrics

HTTP, IMAP, SMTP, FTP, SSH, DHCP and RPC Metrics

TCP Socket, IMAP, SMTP, FTP, SSH, DHCP and RPC Metrics

InetAddress Ping, SSH, DHCP and RPC Metrics

Oracle监控规范

General Server Metrics

- Availability
- Physical Reads
- Physical Reads per Minute
- Logical Reads
- Logical Reads per Minute
- Physical Writes
- Physical Writes per Minute
- User Calls
- User Calls per Minute
- User Commits
- User Commits per Minute
- User Rollbacks
- User Rollbacks per Minute
- Connections Cumulative
- Connections Cumulative per Minute
- Connections Current
- Bytes Sent via SQL*Net
- Bytes Sent via SQL*Net per Minute
- Bytes Received via SQL*Net
- Bytes Received via SQL*Net per Minute
- Client Roundtrips
- Client Roundtrips per Minute
- Opened Cursors Cumulative
- Opened Cursors Cumulative per Minute
- Opened Cursors Current
- CPU Time Total
- CPU Time Total per Minute
- CPU Time Recursive
- CPU Time Recursive per Minute
- CPU Time Parse
- CPU Time Parse per Minute
- Cache Hit Ratio
- Up Time
- Block Changes
- Block Changes per Minute
- Redo Size Generated
- Redo Size Generated per Minute
- Redo Log Size
- Session PGA Memory
- Session UGA Memory
- Parse Count (total)
- Parse Count (total) per Minute
- Parse Count (hard)
- Parse Count (hard) per Minute
- Sorts Disk
- Sorts Disk per Minute
- Sorts Memory
- Sorts Memory per Minute
- Sorts Rows

续

Sorts Rows per Minute
- Table Scans (long)
- Table Scans (long) per Minute
- Table Scans (short)
- Table Scans (short) per Minute
- Execute Count
- Execute Count per Minute
- Instance Used Space
- Instance Free Space

Oracle 10g and 11g Segment Metrics
- Availability
- Disk Space Used
- Number Of Rows

TNS Ping Metrics
- Availability
- TNS Response Time

Tablespace Metrics
- Availability
- Free Space
- Free Extents
- Disk Space Used
- Number of Data Files
- Space Used Percent

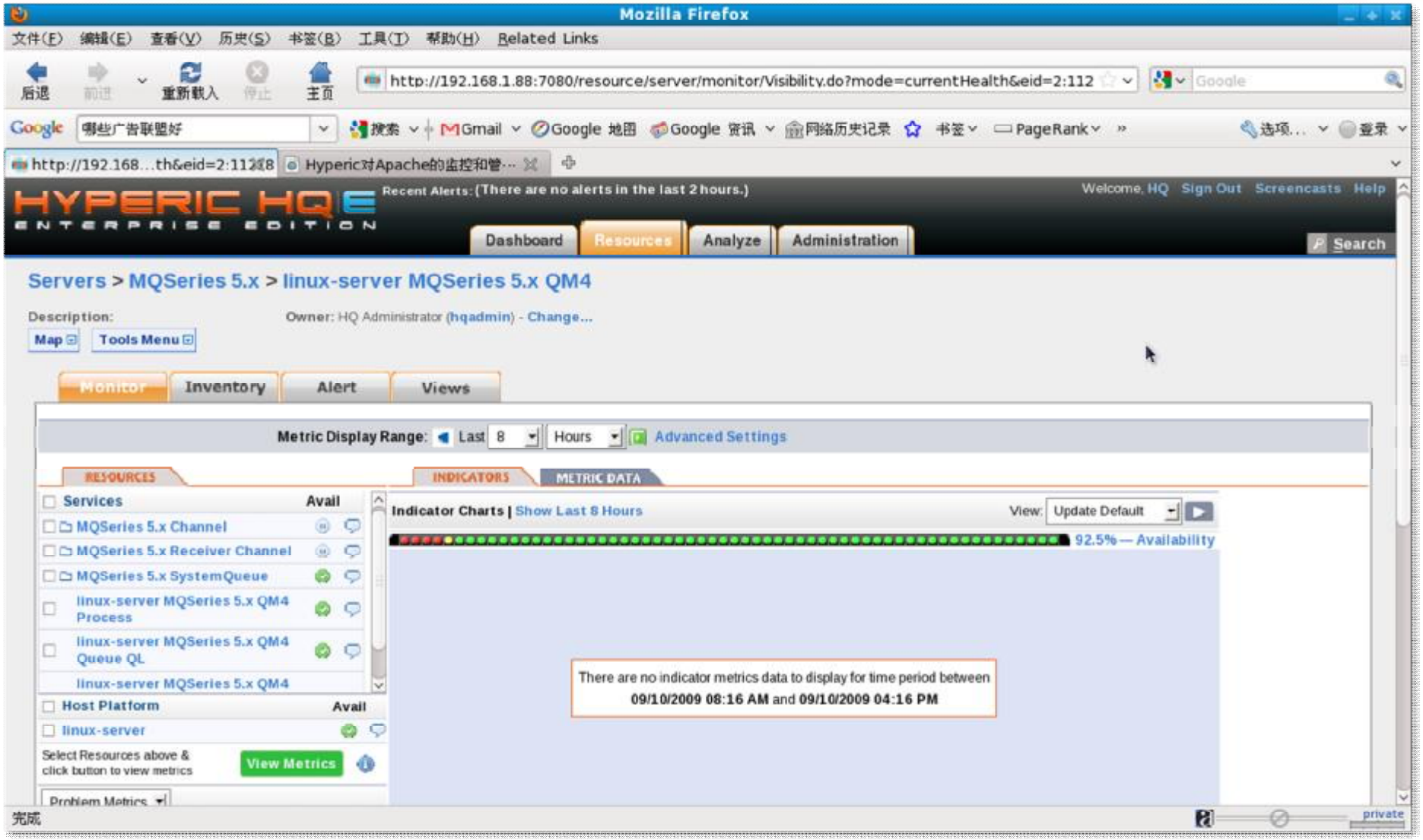
Process Metrics Metrics
- Availability
- Process Virtual Memory Size
- Process Resident Memory Size
- Process Page Faults
- Process Page Faults per Minute
- Process Cpu System Time
- Process Cpu System Time per Minute
- Process Cpu User Time
- Process Cpu User Time per Minute
- Process Cpu Total Time
- Process Cpu Total Time per Minute
- Process Cpu Usage
- Process Start Time
- Process Open File Descriptors
- Process Threads

User Instance Metrics
- Availability
- Logons Current (active)
- Logons Current (inactive)
- Opened Cursors Current
- Used Space

Oracle Control Specification

Control Actions
Analyze

IBM MQ 监控


Mozilla Firefox
文件(F) 编辑(E) 查看(V) 历史(S) 书签(B) 工具(T) 帮助(H) Related Links
后退 前进 重新载入 停止 主页
http://192.168.1.88:7080/resource/server/monitor/Visibility.do?mode=currentHealth&eid=2:112
Google 哪些广告联盟好 搜索 Gmail Google 地图 Google 资讯 网络历史记录 书签 PageRank 选项... 登录
http://192.168...th&eid=2:11288 Hyperic对Apache的监控和管...
HYPERIC HQE ENTERPRISE EDITION
Recent Alerts: (There are no alerts in the last 2 hours.)
Welcome, HQ Sign Out Screencasts Help
Dashboard Resources Analyze Administration Search
Servers > MQSeries 5.x > linux-server MQSeries 5.x QM4
Description:
Owner: HQ Administrator (hqadmin) - Change...
Map Tools Menu
Monitor Inventory Alert Views
Metric Display Range: Last 8 Hours Advanced Settings
RESOURCES INDICATORS METRIC DATA
Services Avail
MQSeries 5.x Channel
MQSeries 5.x Receiver Channel
MQSeries 5.x SystemQueue
linux-server MQSeries 5.x QM4 Process
linux-server MQSeries 5.x QM4 Queue QL
linux-server MQSeries 5.x QM4
Host Platform Avail
linux-server
Select Resources above & click button to view metrics
View Metrics
Problem Metrics
Indicator Charts | Show Last 8 Hours
View: Update Default
92.5% — Availability
There are no indicator metrics data to display for time period between
09/10/2009 08:16 AM and 09/10/2009 04:16 PM
完成
private

总结

最大化可用性

- 全面的度量值收集
- 复杂的报警
- 跟踪性能，日志和配置改变

最小化开销

- 通过点击就能自动发现70多种技术
- 可扩展的体系结构
- 非常易于使用的用户界面

快速监控整个数据中心，管理员能够在问题发生之前发现并修复问题

谢谢!

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