



q-Status™ Saves the Data Center, Money

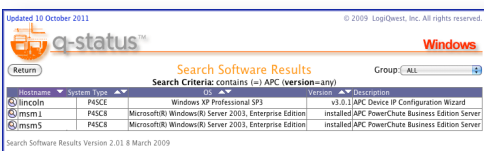
The Problem: An inordinate amount of time is spent by system administrator, IT project manager and data center professionals evaluating server operations. As an up-to-date configuration server monitoring application, **q-Status™** quickly locates software, identifies hardware, validates network configuration, performs comparisons, search and find from a simple web 2.0 GUI without the need to log into any server. As servers are deployed or updated, **q-Status™** automatically identifies configuration issues and even compares previous history.

Our Philosophy: **q-Status™** uses Configuration to monitor the data center, not performance monitoring¹. **q-Status™** provides IT professional more capability to identify issues and generate meaningful information that is easily understood.

Where is the Software?

A data center has 50 Windows servers (virtual and non virtual). The battery backup system needs to be updated. Which server are running the battery backup software?.

- Without **q-Status™**, system administrators would use an existing spreadsheet but still needs to verify the correctness by logging into each Windows server and listing all software. This can take three hours to obtain information.



- With **q-Status™**, it simply take about a minute to generate a search and find report which list the four server.

What Storage Do I Have?

You have over 1000 servers with various types and operating systems including Linux, Solaris, Windows, HP-UX and AIX. You want to add a storage area network (SAN). How much storage is being used in the current data center?

- Without **q-Status™**, a day or more is required to do an inventory each server and list each filesystem and usage.

server	os	hardware	capacity	usage	last update		
ANANKE	windows	PowerEdge 6300/450	33.9GB	20.5GB	13.3GB	39%	6 Mar 2009 19:29:45
andalusia	aix	IBM 7026-H70	23.2GB	13.0GB	10.1GB	44%	2 May 2009 19:06:39
ANGOLA	windows	PowerEdge 6650	33.9GB	28.7GB	5.1GB	15%	6 Mar 2009 19:29:45
ardmore	hpux	HP9900 Model 800 Class N4000-45	411.3GB	398.8GB	12.4GB	3%	15 Apr 2009 14:48:10
atlanta	aix	IBM 9117-570	181.6GB	168.6GB	13.0GB	7%	2 May 2009 19:06:39
augusta	aix	IBM 7026-H70	23.2GB	13.1GB	10.0GB	44%	2 May 2009 19:06:39
BARRACUDA	windows	X86VIA	479.1GB	403.9GB	75.2GB	16%	9 Jan 2011 08:22:10
bermuda	solaris	SPARC Enterprise M9000	12.2TB	1.7TB	10.4TB	85%	16 Jun 2011 10:24:38
bermuda	hpux	Itanium i684 hp server r4300	189.1GB	46.0GB	143.1GB	7%	12 Sep 2011 14:04:43
BETA	windows	Satellite M55X	74.5GB	28.0GB	46.5GB	62%	6 Mar 2009 19:29:45
bethel	hpux	Itanium i684 hp workstation z6000	28.3TB	5.9TB	22.4TB	7%	15 Apr 2009 14:48:10
Birmingham	aix	IBM 9117-570	181.6GB	168.6GB	13.0GB	7%	2 May 2009 19:06:39
blades 1500	solaris	Sun Blade 1500	218.5GB	205.1GB	13.3GB	5%	17 Mar 2010 13:18:43
BOJAWANA	windows	PowerEdge 6009C	34.0GB	30.7GB	3.3GB	10%	6 Mar 2009 19:29:45
c101	solaris	Sun Fire 15000	2.1TB	508.6GB	1.6TB	7%	15 Mar 2010 13:18:43
c103	solaris	Sun Fire 15000	31.7GB	28.1GB	2.0GB	6%	17 Mar 2010 13:18:43
c104	solaris	Sun Fire 15000	31.7GB	29.0GB	1.1GB	3%	17 Mar 2010 13:18:43
c105	solaris	Sun Fire 15000	31.7GB	29.0GB	1.1GB	3%	17 Mar 2010 13:18:43
c106	solaris	Sun Fire 15000	31.7GB	29.3GB	782.3MB	2%	17 Mar 2010 13:18:43
c301	solaris	Sun Fire 8800	262.6GB	240.2GB	6.6GB	4%	17 Mar 2010 13:18:43
c302	solaris	Sun Fire 8800	262.6GB	235.1GB	11.8GB	4%	17 Mar 2010 13:18:43
c303	solaris	Sun Fire 8800	433.6GB	369.4GB	39.8GB	9%	17 Mar 2010 13:18:43
c304	solaris	Sun Fire 8800	433.6GB	369.4GB	39.8GB	9%	17 Mar 2010 13:18:43
CR01	linux	Pentium III S	67.8GB	16.6GB	47.8GB	7%	7 Oct 2011 13:43:59
CAMERDUN	windows	PowerEdge 6400/700	229.8GB	195.4GB	34.0GB	15%	6 Mar 2009 19:29:45
CARME	windows	PowerEdge 6650	33.9GB	28.7GB	5.1GB	15%	6 Mar 2009 19:29:45
catsville	hpux	HP9900 Model 800 Class L1500-40	1.9TB	375.4GB	1.5TB	8%	15 Apr 2009 14:48:10
cayman	hpux	Itanium i684 hp server BL860c	435.5GB	251.4GB	184.1GB	42%	21 Sep 2011 22:14:14

- q-Status™** maintains a continuous inventory which is always up-to-date. Simply generate a storage summary for all servers as a single report. **q-Status™** reports allow dynamic display to show only storage uses by data storage used against os storage used.

Which Servers Need Updated?

You have 80 Linux Servers including virtualized servers. A waited list needs to be generated of the number of software updates that need to be installed.

- Without **q-Status™**, the IT support staff performs a two hours to check for updates on each server to generate a list and create a report.
- With **q-Status™**, it simply take less than minute to generate a **q-**

Status™ software update summary with detail information hyperlinks.

Package	Revision (148 pending)
apr-1.3.6	2.6.18-1.94.6.1.a15
apr-1.3.6	1.2.7-1.1.a15.6.5
avahi-libs-1.3.86	1.5.0.1-0.rc2.143.a15.6.2
avahi-compat-libdns_sd-1.3.86	0.6.16-10.a15.6
avahi-devel-1.3.86	0.6.16-10.a15.6
avahi-glib-1.3.86	0.6.16-10.a15.6
avahi-qt3-1.3.86	0.6.16-10.a15.6
avahi-1.3.86	0.6.16-10.a15.6
compat-dagp-1.3.86	2.0.25-2.a15.6.1
compat-openldap-1.3.86	2.3.43.2.2.29-12.a15.6.7
coreutils-1.3.86	5.9.7-23.a15.6.4
cupS-libs-1.3.86	1.1.3.7-26.a15.6.1
cupS-1.3.86	1.1.3.7-26.a15.6.1
curl-devel-1.3.86	7.15.5-9.a15.6.3
curl-1.3.86	7.15.5-9.a15.6.3
dagp-urllib-1.3.86	2.0.25-2.a15.6.1
dagp-1.3.86	2.0.25-2.a15.6.1
dbus-devel-1.3.86	1.1.2-15.a15.6
dbus-libs-1.3.86	1.1.2-15.a15.6
dbus-1.1.3.86	1.1.2-15.a15.6
dbus-1.3.86	1.1.2-15.a15.6
gimp-libs-1.3.86	2.2.13.3-2.0.7.a15.6.2

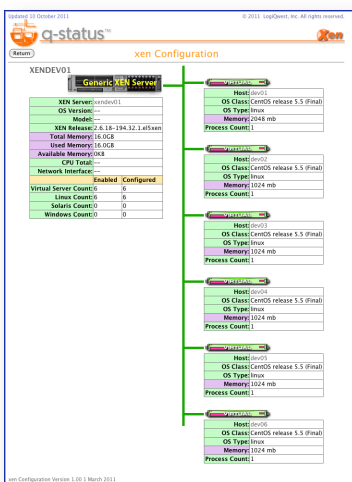
Similarly, for Solaris servers, **q-Status™** has a built in patchdiag analysis to generate to summary list with a detail hyperlink for Solaris patches requirements for each server.

Do the Servers Match?

For the IBM AIX servers running DB2, IT needs to identify which version of the software family needs meet a master install version:

- Without **q-Status™**, system administrators will log into each of the database servers and list the software. They will then create a spreadsheet with only the DB2 software differences show. This takes at least a couple of hours.

Package	Version	Architecture	Package Description
db2_08_01.adf.pcpu	5.3.0.0	5.3.0.0	5.3.0.0
db2_08_01.adf.adr	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.adf.samples	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.ca	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.cc	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.ch.en.us.ios88591	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.cj	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.client	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.cnvcs	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.conn	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.covm	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.cs.rte	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.ctsr	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.das	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.db2.engn	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.db2.rte	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.db2.samples	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.dc	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.dj	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.djinx	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.djx	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.dw.ccm	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.dw.sampledb	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.dw.srv	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.dwc	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.essg	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.fs	8.1.1.96	8.1.1.96	8.1.1.104
db2_08_01.gqln	8.1.1.96	8.1.1.96	8.1.1.104



- Using **q-Status™**, a simultaneously software comparison is displayed only the database servers. Using dynamically filtering only software name and version discrepancies are reported. This takes about a minute to generate this single report.

Which Virtual Servers Need Prioritized?

A new IT project needs to get a list of what virtual servers are running on which hardware to prioritize hardware upgrades. This company uses five virtualization technologies including: VMware, KVM, Solaris Zones and LDOMS.

- Without **q-Status™**, each virtualization vendor's software must be used to create reports to identify which Virtual server is running on which physical hardware. This might take a half a day to consolidate the reports.

Server	IP Address	OS	OS Version	OS Type	Memory	Process Count
SRV01	192.168.1.24	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV02	192.168.1.25	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV03	192.168.1.26	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV04	192.168.1.27	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV05	192.168.1.28	CentOS	5.5 (Final)	Linux	1024 mb	1

- q-Status™** display a single virtual inventory summary for all virtual technology. A simple hyperlink will display the virtual servers layout to the physical server. This takes less than five minutes to create comprehensive reports².

Bonus: No VCenter license is required to generate this configuration information for VMware ESX (i) servers.

Where is the Problem?

You have migrated about 125 servers to a new network architecture. Unfortunately, default router information has been not updated properly.

- Without **q-Status™**, system managers manually log into each server to verify the default router for all the servers in the data center and then fix the ones they fine.

Server	IP Address	OS	OS Version	OS Type	Memory	Process Count
SRV01	192.168.1.24	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV02	192.168.1.25	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV03	192.168.1.26	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV04	192.168.1.27	CentOS	5.5 (Final)	Linux	1024 mb	1
SRV05	192.168.1.28	CentOS	5.5 (Final)	Linux	1024 mb	1

- q-Status™** list and sort the gateways in a network summary report or simply perform a default router search for all server. Then the system administrators need only log into those servers.

q-Status™ Alerts

q-Status™ provides email alerts for network and hardware configuration changes plus disk filesystem threshold alerts. For disk alerts, filesystem thresholds are adjustable though a simple Web 2.0 GUI. This eliminates the need to edit parameter and/or specification files.

How Does It Work?

q-Status™ uses standard OS commands through shell scripts or bat files. Encrypted configuration data is transferred via Java secure copy to the **q-Status™** Web servers. There is no need to opening sockets or ports to

punch security holes in your server to collect configuration data with **q-Status™**.

Bonus: Using Java secure copy eliminates the need to even install ssh specifically for Windows servers.

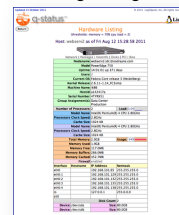
The **q-Status™** GUI is intuitive to use requiring no more understanding than using a smart phone. The user GUI even looks like the Icon GUI for an iPhone which **q-Status™** pre-dates. **q-Status™** reports support Web 2.0 dynamically display through any web browser on multiple platforms including tablet computers.

Little or no time is required to configure **q-Status™** which eliminates the need for a trained specialist like other monitoring tool. The most complicated part to set up **q-Status™** is setting up a web server³.

Interested? Want to see an interactive demo? Contact us today and find out how to make your IT Life easier tomorrow.

¹ Performance monitoring tools perform a valuable service in identifying the status of processes on specific servers. They should always be part of any data center. But these tools only look at the individual servers. **q-Status™** looks at the whole data center to provide comparisons, history and cross referencing. Significant time savings can be obtained with better design and implementation being the outcome.

² **q-Status™** provides a current and up-to-date server information plus maintaining configuration history. This



fulfills ISO 9004 standards and Sarbanes-Oxley audit requirements.

For all inquiries about q-Status and q-Status implementation, training, and pricing information, please contact:
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