

Q'center V1.7

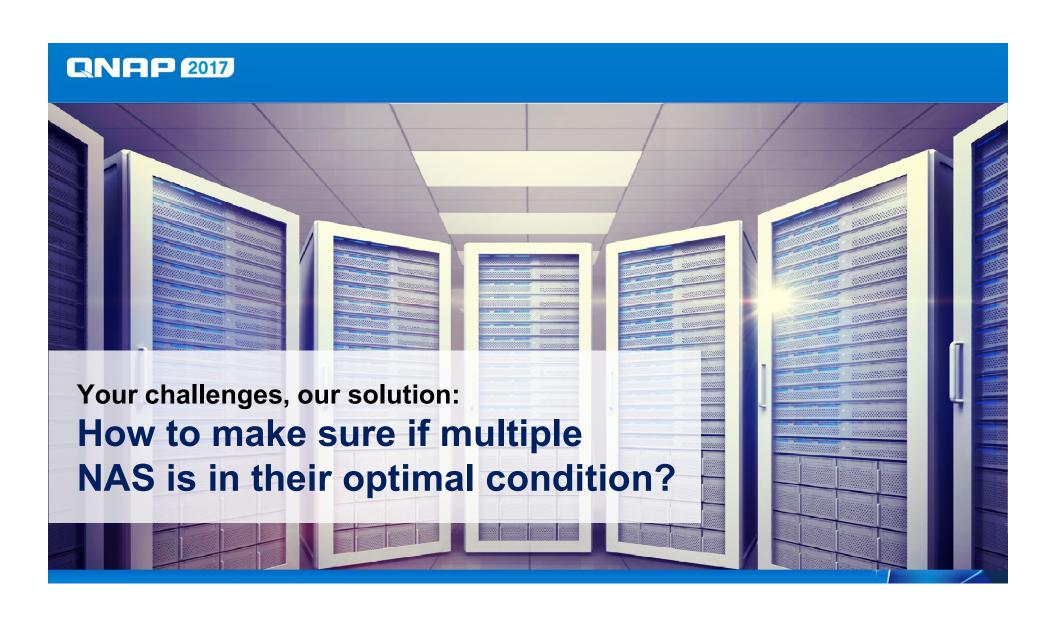
A Central Storage Management System to Maximum your ROI

CNAP 2017

The Acclaimed CMS for QNAP NAS

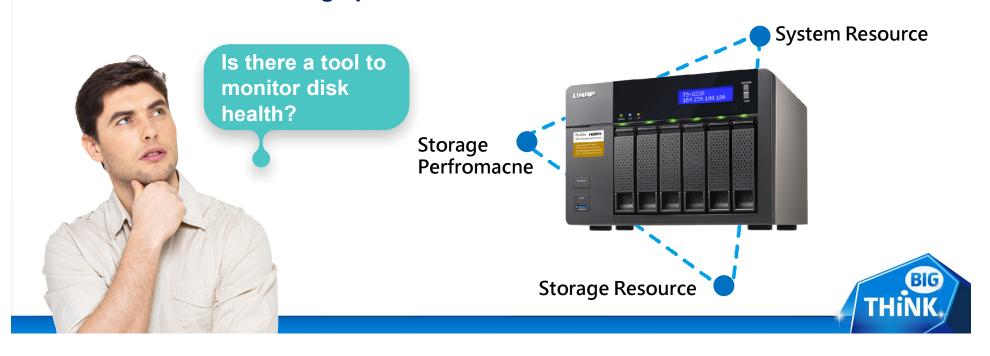
- ●200,000 NAS around the globe have installed Q'center
- ●1,500,000 NAS managed by Q'center
- ●In average, per business customer, 10 NAS being managed by Q'center





3 Aspects for Monitoring Your Storage

- •First dimension: system resource usage, status and log
- Second dimension: storage resource usage
- Third dimension: storage performance and health

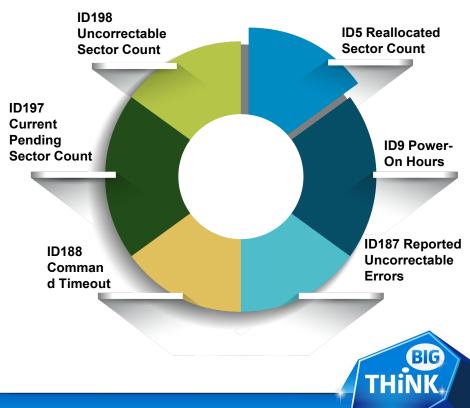


CNAP 2017

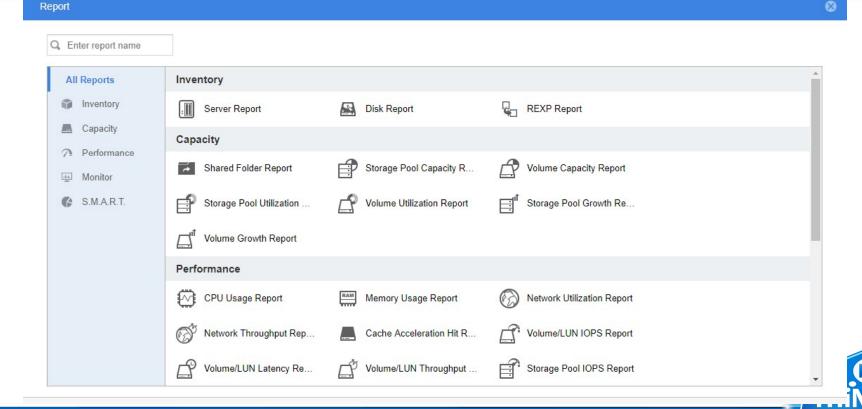
30 Different Reports in 5 Categories

- 5 Categories: Inventory, Storage Space, Performance, Hardware, Disk
- ●30 Analysis Reports: E.g. S.M.A.R.T. Monitoring





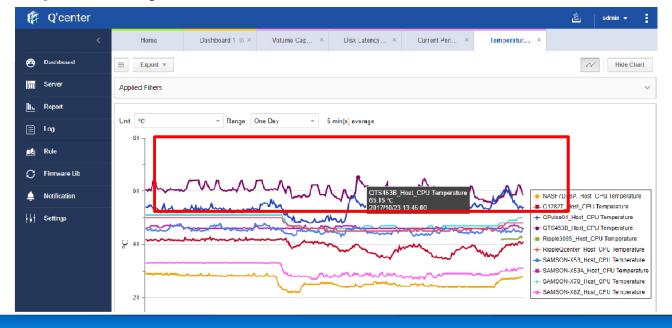
The Items that Q'center Monitored

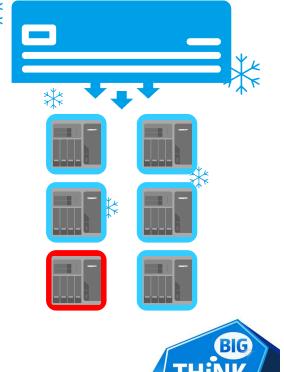


Detect Potential Issues

Hardware: Temperature and Fan Speed

 Detect effects of environmental changes and prevent system failures





A Professional Monitoring Tool

Brand/ Monitoring Items	QNAP Q'center	S Brand CMS					
CPU/Memory/Network	V	V					
Shared Folder/Storage Space Usage	V	V					
Storage Performance and Logs	V	X					
Long-term HW Monitoring (Temp/Fan Speed)	V	V					
Periodical Disk Health Report	V BEST	X					

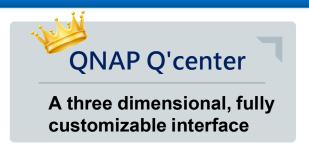
An independent and professional suite

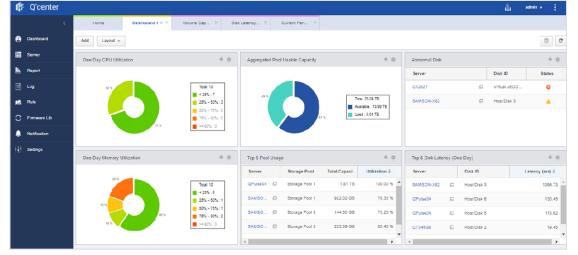
The Q'center Agent on every NAS will collect more than 100 variables each minute



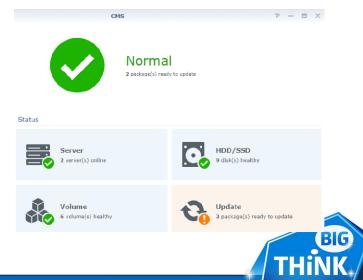


Intuitive GUI





S Brand CMS A basic monitoring interface





Live Demo



How to use Q'center and easily find disks that need to be replaced?

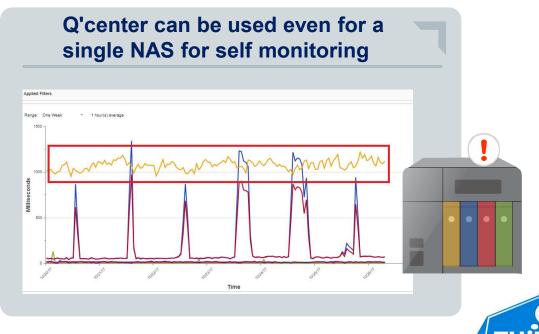




Long-term Self Monitoring Tool

●Log long-term (over a year) space or performance usage

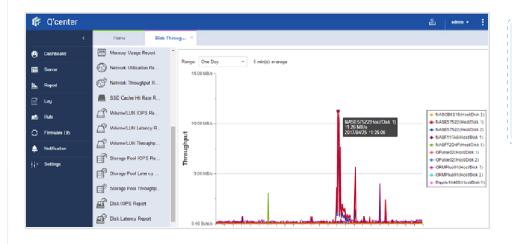


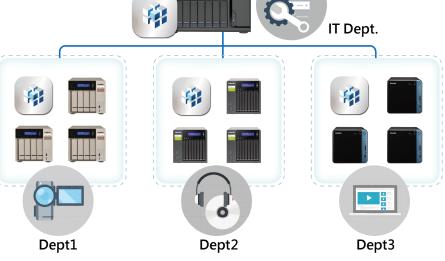


A NAS can be Monitored by Several Q'centers

● A NAS can be monitored by up to 10 Q'centers

Build a distributed monitoring system or a backup site





Helps you Work Smarter, not Harder

Functions of Q'center Central Management System:

Brand/Function	QNAP Q'center	S Brand CMS		
Upgrade FW	V	V		
Install apps	V	V		
Change Settings	V	V		
Backup Settings	V	X		
Create Shared folders	V (10.00)	X		

- Upgrade FW, apps and change settings for multiple NAS
- Backup NAS settings
- Create shared folders

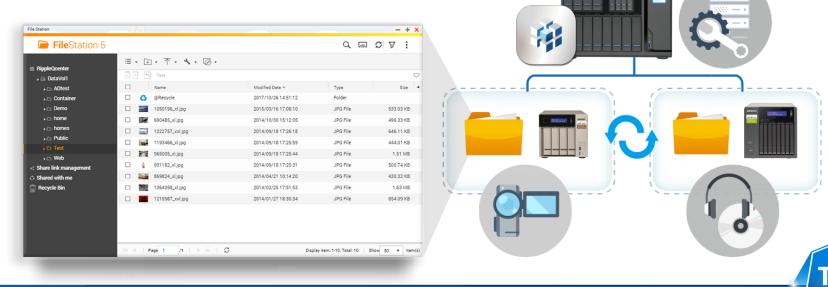




Create Shared Folders on Multiple NAS

 Case: Create an identical folder on different branch office's NAS to store IT resource

Use Q'center to create multiple shared folders
 & configure permissions directly





Live Demo



How to create a shared folder on multiple NAS with Q'center





Core Optimizations to Monitor over 1,000 NAS

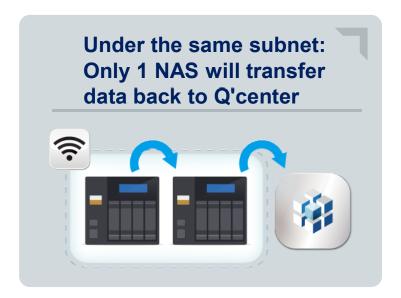
- 2 major challenges for device monitoring:
 Chosen hardware spec. can not meet requirements for monitoring
 Monitored devices cannot connect back to the server
- The Q'center solution:
- ✓ One Portal
- ✓ Two Deployment Methods (NAS/VM)
- ✓ Three Connection Types (LAN/WAN/over NAT)

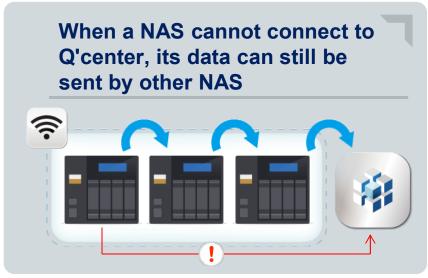




One Portal

The NAS under the same subnet will form a connection cluster



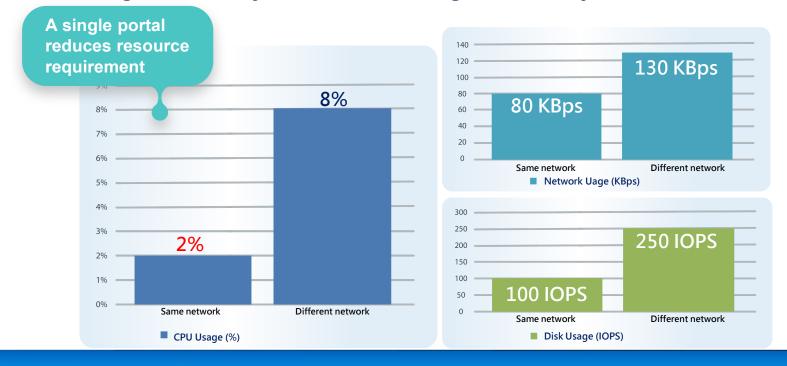




Each Q'center Agent will transfer 50KB~200KB data per min.

Reduce Resource Requirements

- ●TVS-1282 (i7) to monitor 100 NAS under the same or different networks
- ●CPU usage reduces by 75%, network usage reduces by 40%, disk IOPS reduces by 60%

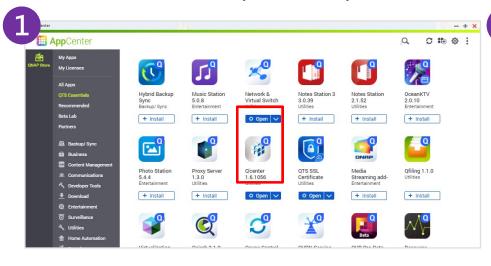


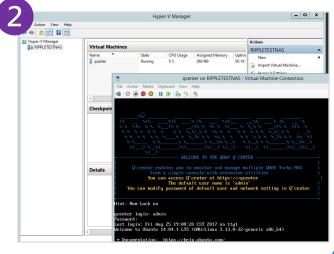


Two Deployment Methods: NAS/VM

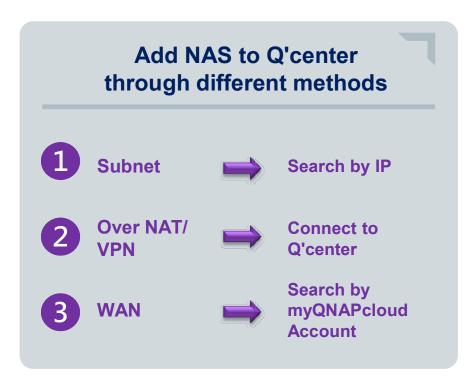
- Download Q'center from QNAP NAS App Center
- Download Q'center VM Edition from QNAP website and port into hypervisors

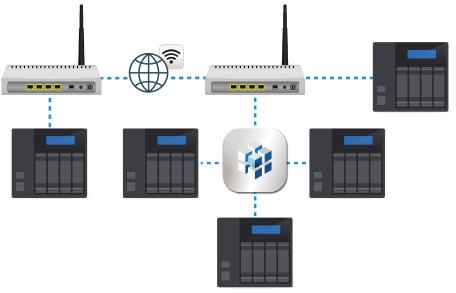
VMware / Windows (2 editions)





3 Connection Types: LAN/WAN/over NAT

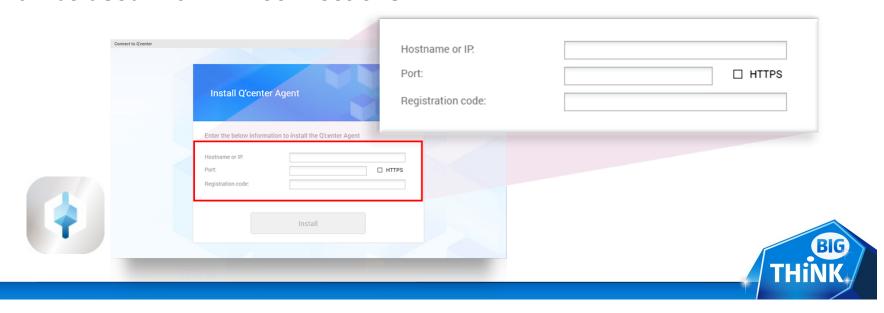






No Need to Modify Firewall Settings

- Install Connect to Q'center app on NAS to be monitored
- Set Q'center IP to connect to Q'center Server directly
- Single portal tech. available
- Can be used with VPN connections



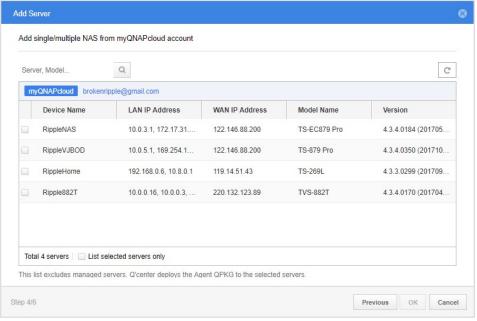
Find Your NAS Through myQNAPcloud

O1 Add a NAS to your myQNAPcloud ID

Enable myQNAPcloud on NAS where Q'center is installed



From Q'center, search NAS of the same myQNAPcloud ID



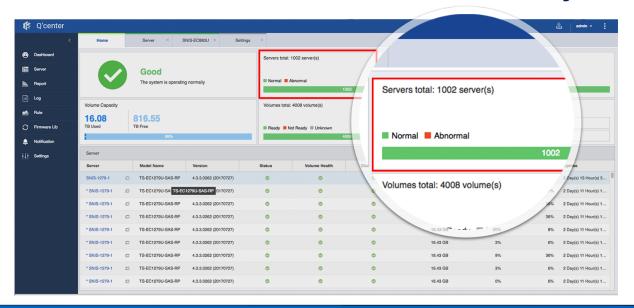


*The added NAS will be connected via WAN IP instead of through myQNAPcloud relay



Support Monitoring of > 1,000 NAS

- Aug. 2017, Q'center V1.6.1056
- Monitors 1,000 QNAP NAS in QNAP Lab with TDS-16489U E5-2620*2, 64GB Memory





Best Practices for Deploying Q'center

Factor 1: Are monitored NAS on the same or different subnets?

Factor 2: NAS Configurations (Disks, Network, Connection Logs, etc)

NAS count	CPU	RAM	Storage	SSD Cache	Suggested model
1~50	Intel [®] Quad-Core	1GB	100GB	No Need	TS-x51
50~100	Intel [®] Celeron [®]	4GB	100GB	No Need	TS-x53B
100~500	Intel [®] i5	8GB	200GB	Needed	TVS-x82
500~1000	Intel [®] Xeon [®] E3	16GB	200GB	Needed	TVS-x80U
500~1000 with complex configurations	Intel [®] Xeon [®] E5	64GB	500GB	Needed	TDS-x89U



Use Case> Tesco Lotus Thailand

- One of the biggest supermarket chains in Thailand
- 1,200 stores, 200 of them have deployed QNAP NAS
- Q'center (app ver.) and the following HW:
 - ✓ TVS-1282
 - ✓ Intel[®] i7-6700
 - √ 16GB RAM with SSD RAID

Theerapong Boonma, Local Distributor:

The Q'center is looking good in managing 200 NAS. We are looking forward to adding more servers!





<Case> Italian Agriculture Association

- Total 724 Branch office, 200 has deployed QNAP NAS
- Q'center VMware Version

 - ✓ IBM Flex System x400 ✓ Intel[®] Xeon[®] CPU E5-4650
 - √ 4GB Virtual Memory

IT managers:

Thanks for great support from QNAP, it really makes a difference!





Make the Best Use of Your NAS with Q'center

- 3-Dimension monitoring
- Single portal, NAS/VM dual mode and 3 connection types (LAN/NAT/WAN)
- Monitoring over 1,000 QNAP NAS



Q'center Official Page: https://www.qnap.com/solution/qcenter

Deployment Best Practice:
https://www.qnap.com/en/how-to/tutorial/article/best-practices-for-deploying-qcenter



