

QNAP

Hyper Data Protector 1.1.0

正 式 發 行

免授權主動式虛擬機備份

一體機解決方案

支援VMware/Microsoft Hyper-V



IT選擇虛擬機備份產品方案的困擾

複雜的收費方式

複雜的收費方式，市面上的解決方案多樣化，每個廠商收費形式也不盡相同



昂貴的授權費

每年都需要付出昂貴的授權費，業主不見得買單



花費大量時間與人力

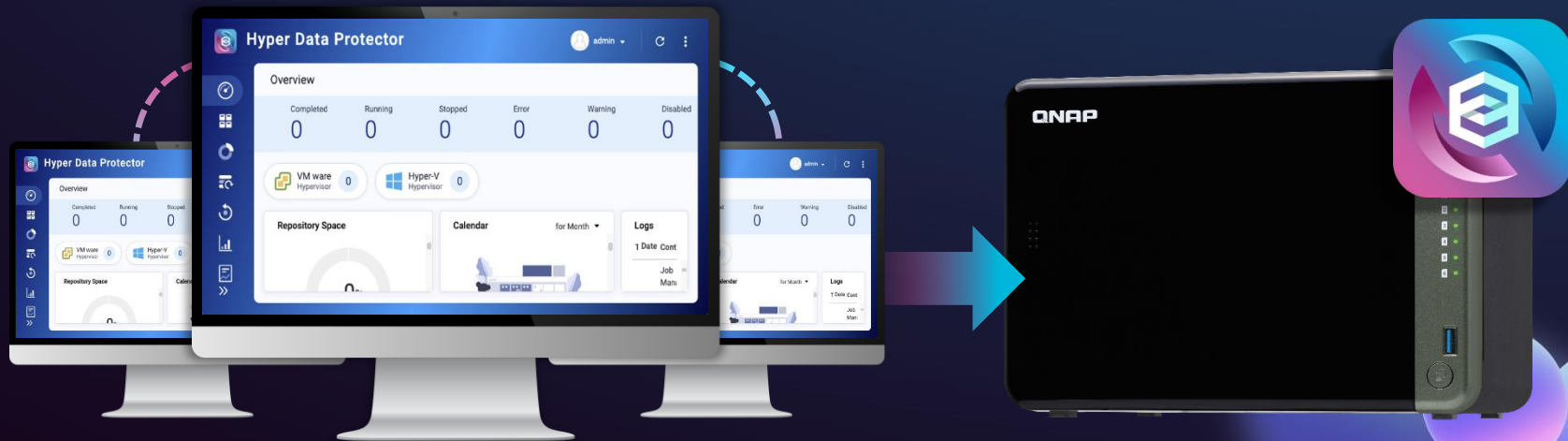
軟、硬體廠牌不同，當發生問題時要花費大量時間與人力找問題



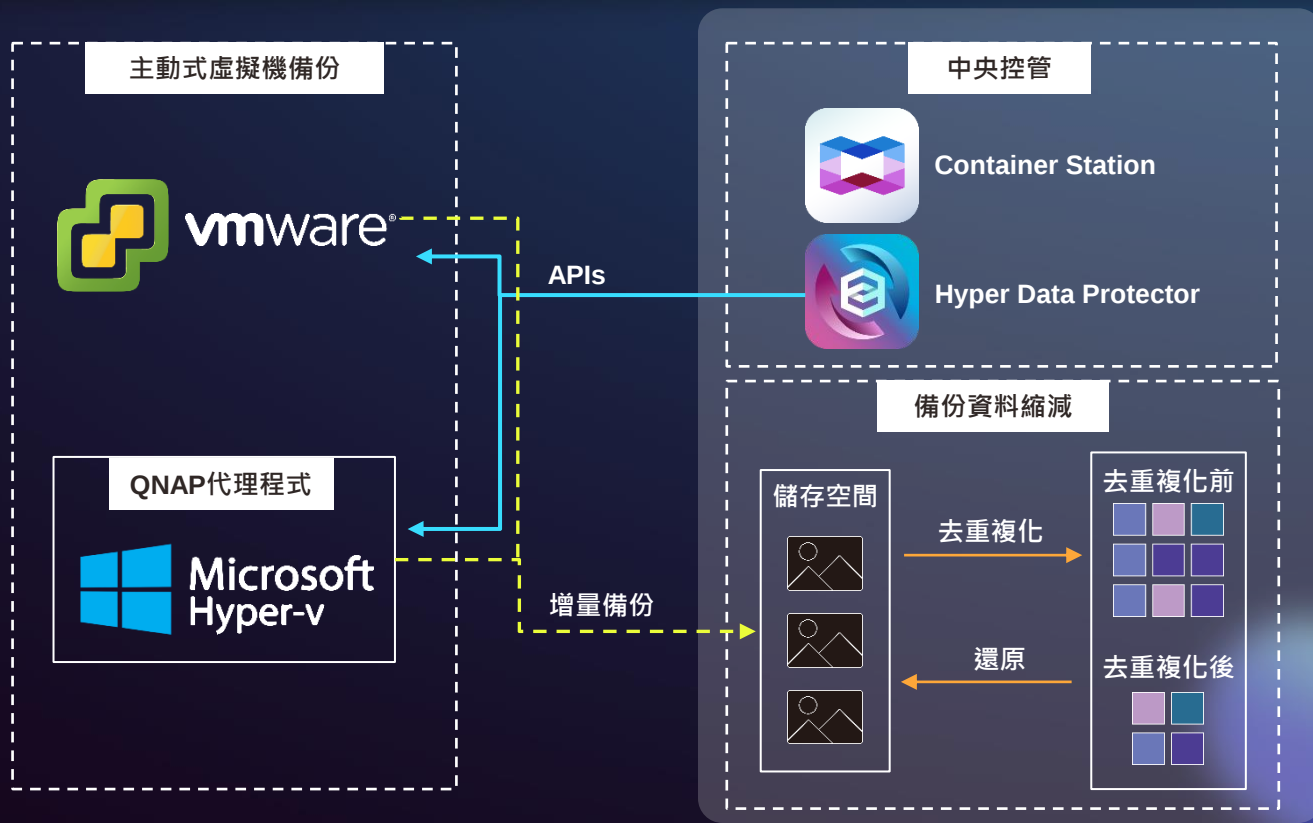
QNAP Hyper Data Protector

免授權一體機的優勢

- 免費授權讓 VM 備份無上限，讓您省錢、省時、省空間
- 一體機備份，發生問題時避免軟、硬體廠商間所耗費的時間與人力
- QNAP NAS RAID 硬碟資料保護機制
- QNAP NAS 完善的 3-2-1 備份機制



Hyper Data Protector 架構解析



QNAP Hyper Data Protector

支援備份的來源平台

Hyper Data Protector 針對
VMware和Hyper-V提供主
動式備份解決方案

目前支援的平台包含:

- ESXi 6.0, ESXi 6.5, ESXi 6.7
- Hyper-V 2016, Hyper-V 2019
- vCenter

備註: Windows 10 Hyper-V不支援
(未來規劃 - 支援於PC整機備份 解決方案)

VMware vSphere

6.0, 6.5, 6.7



Microsoft Hyper-V

- Windows Server Hyper-V 2016
- Windows Server Hyper-V 2019



Windows Server
Hyper-V™

Windows 10 Hyper-V 不支援

Hyper Data Protector v1.1.0 正式發行的六大特點

主動式備份 中央控管系統

- QNAP NAS一體機主動式備份
- 將虛擬機備份回QNAP NAS

多線程備份 加速備份時間

當安裝或更新完成，HDP自動判斷當下NAS系統資源，來決定可同時備份的虛擬機數量

備份資料縮減

- 針對虛擬機特別設計的去重複化
- 複製VMs可達90%重複資料減少

多版本備份

- 可高達1,024個多版本備份
- 隨選還原到任一時間點

備份資料安全管理

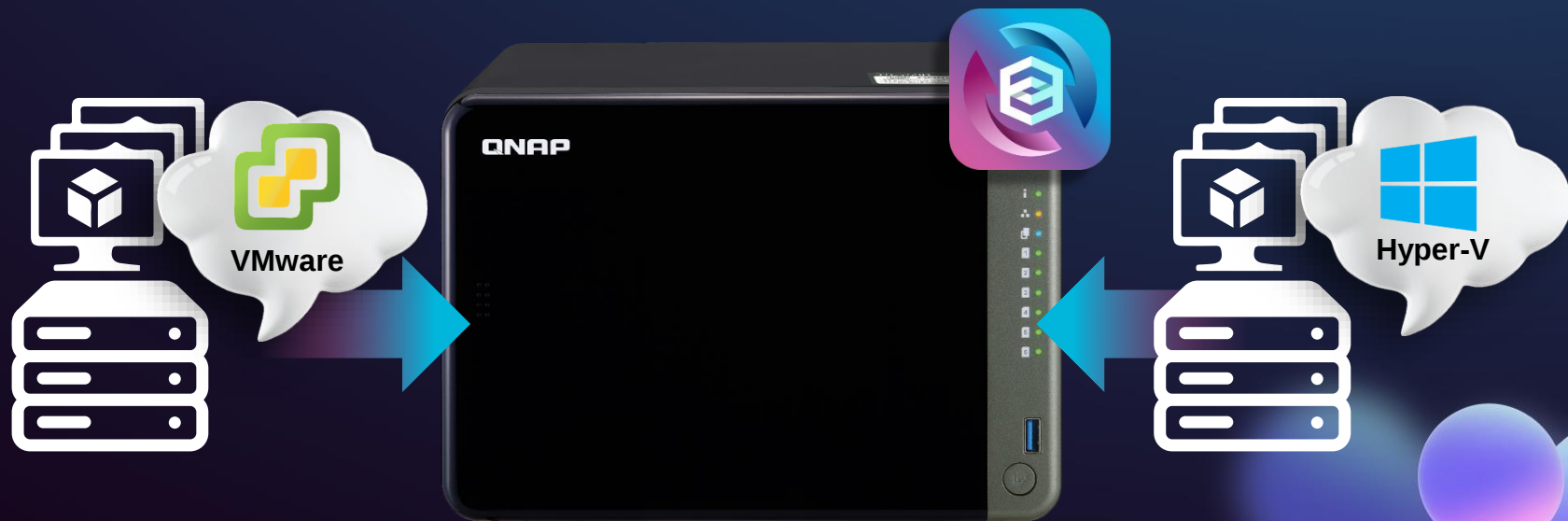
- 備份資料夾加密
- 使用AES-256傳輸加密技術

高速備份網路配置

- 支援NAS高速網路備份
- NAS最高可支援40Gbps

VMware / Hyper-V 一體機主動式備份 中央控管系統

- QNAP NAS一體機主動式備份
- 將伺服器裡的虛擬機備份回QNAP NAS
- 中央控管系統
- 可以使用在封閉環境備份虛擬機應用



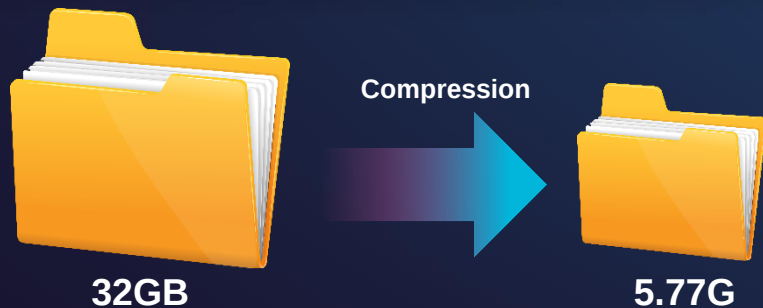
支援同時備份多個虛擬機來縮減備份時間

- 當HDP安裝或更新完成後，HDP會自動化判斷CPU與Memory，並決定可同時備份虛擬機數量
- 要同時備份一個虛擬機，需系統資源250MB記憶體



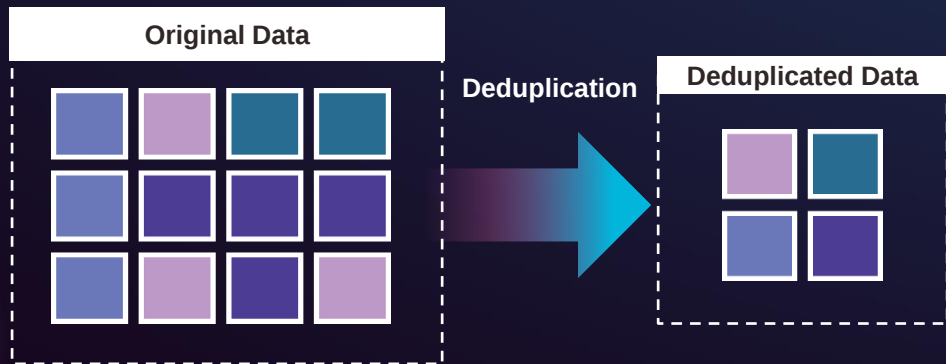
CPU?
Memory?

資料壓縮與去重複化技術節省您的儲存空間



經實測壓縮率：

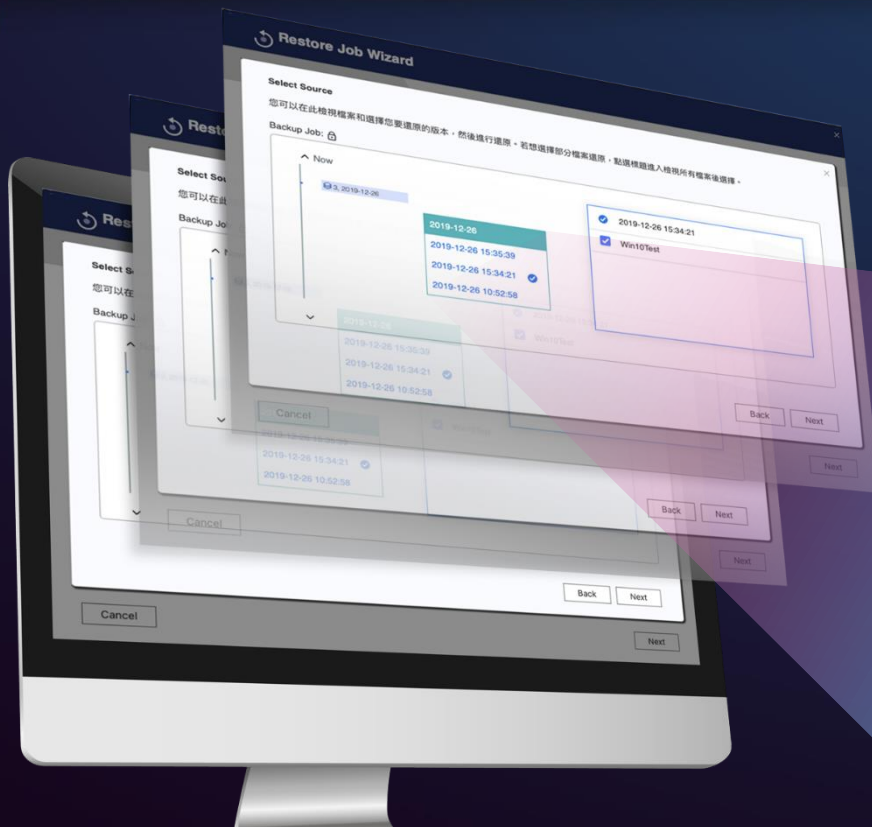
QNAP HDP與業界知名廠商壓縮率皆達到8成以上，例如32GB VM經過壓縮後變成5.77GB，大幅節省備份空間



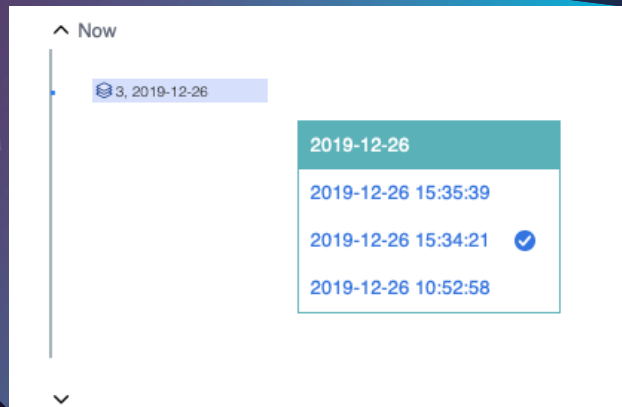
離線去重複化技術：

- 減少多版本備份佔用空間
- Clone VM可達90%的重複資料減少

虛擬機備份版本可高達 1,024 個多版本備份



- 可支援連續版本備份
- 隨選還原任一時間點





採用 AES-256 傳輸加密技術 資料絕對安全

AES (Advanced
Encryption Standard)

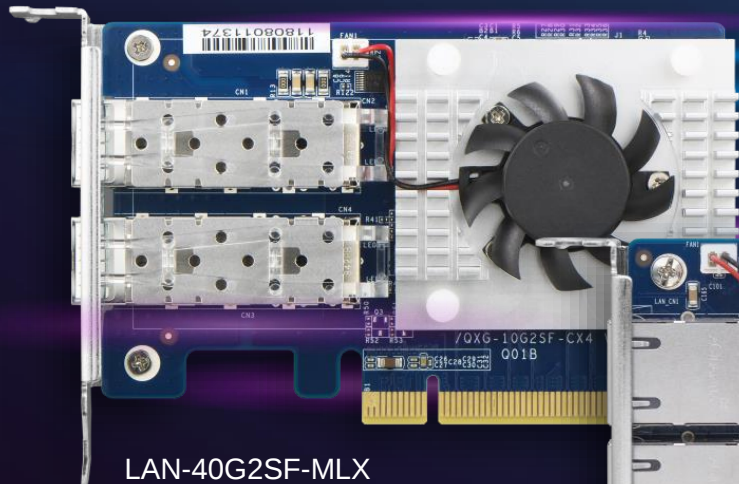
美國政府用來保護資料傳輸的加密標準。

256-bit Encryption

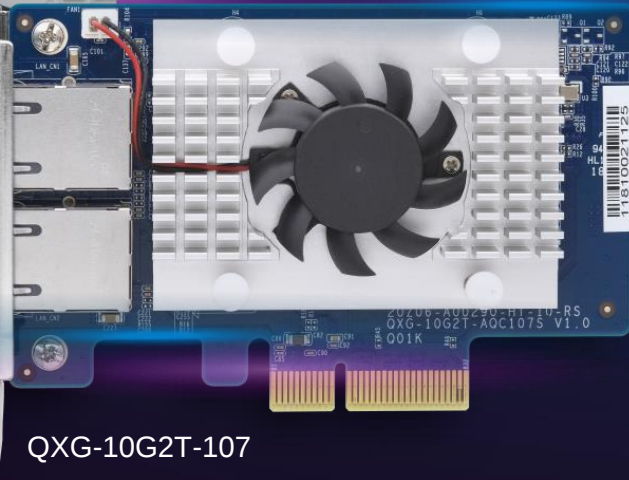
應用 NAS 高速網路配置 資料傳輸更高效

支援NAS高速網路備份

有多種高速網卡可供選擇搭配 包含40Gbps ,
25Gbps , 10Gbps, 5Gbps , 2.5Gbps, 等



LAN-40G2SF-MLX



QXG-10G2T-107

三步驟流程化快速導引精靈 初始您環境設定

登入HDP後於快速入門頁面，三步驟流程化，快速設定您的備份環境

STEP1

設定存放庫空間

The screenshot shows the 'Quick Environment Setup Wizard' window at Step 1: Repository Space. The progress bar indicates Step 1 is active, followed by Step 2 (Inventory) and Step 3 (Summary). The main content area is titled 'Step 1: Configure a backup repository. Backup repository is a default folder where Hyper Data Protector stores backups and backup metadata.' It includes a 'Select a default folder' section with a text input field labeled 'Folder:*' and a 'Choose' button. Below this is an 'Add Repository' section with a 'Name:*' input field containing 'Repository1'. At the bottom, there are 'Other Settings' with checkboxes for 'Enable deduplication', 'Enable data compression', and 'Enable data encryption'. A 'Password:' field is also present. 'Cancel' and 'Next' buttons are at the bottom.

STEP2

設定虛擬機目錄

The screenshot shows the 'Quick Environment Setup Wizard' window at Step 2: Inventory. The progress bar indicates Step 2 is active. The main content area is titled 'Step 2: Select an inventory database. Inventory is a list of virtual infrastructure servers that hosts virtual machines (VMs). Before creating backup and restoration jobs, you need to add a virtual infrastructure to the Hyper Data Protector Inventory.' It features a 'Hypervisor' section with icons for 'VMware' and 'Hyper-V'. To the right, the 'Select an inventory' section shows a list with one entry: '172.17.30.60'. An '+ Add New Inventory' button is at the bottom. 'Cancel', 'Back', and 'Next' buttons are at the bottom.

STEP3

完成備份環境初始化設定

The screenshot shows the 'Quick Environment Setup Wizard' window at Step 3: Summary. The progress bar indicates Step 3 is active. The main content area displays a large trophy icon and the text 'The setup is complete.' Below this, it says 'The setup is complete. You can now start creating backups and restore jobs to secure your data.' and includes a 'Create a Backup Job' button. 'Cancel', 'Back', and 'OK' buttons are at the bottom.

四步驟還原精靈導引 協助您虛擬機還原任務設定

來源端選擇

- 從備份任務
- 從存放庫空間

目的端位置

- 原機還原
- 異機還原

還原的方式

- 覆寫 (對來源虛擬機進行覆寫)
- 重新命名 (修改虛擬機名稱後還原)

The image displays three sequential screenshots of the 'Restore Job Wizard' software interface, illustrating the steps for restoring a virtual machine.

First Screenshot (Select Source): The 'Select Source' tab is active. It prompts the user to 'Select the backup job you want to restore.' A dropdown menu shows 'Backup job' selected, and a table below lists available backup jobs, including 'Backup2'.

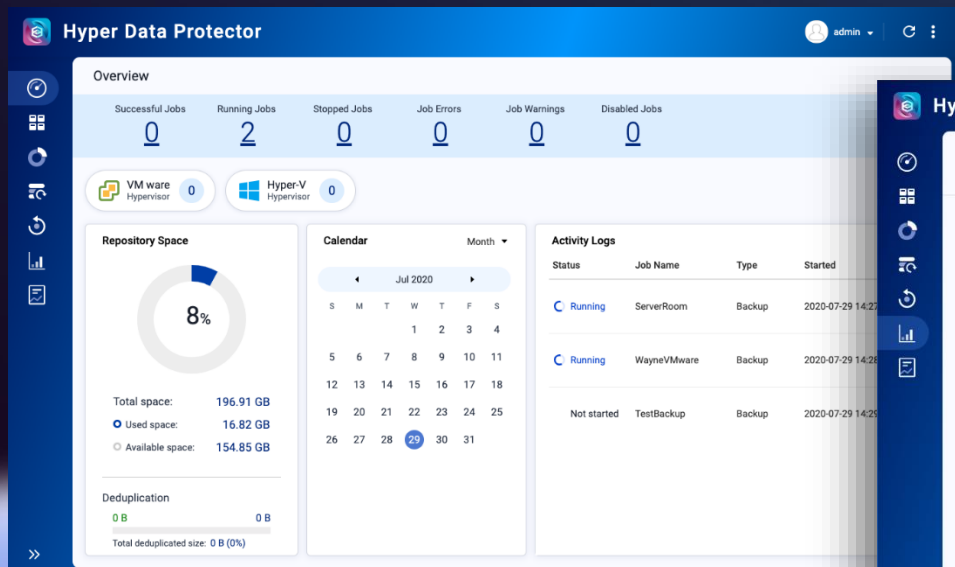
Second Screenshot (Select Destination): The 'Select Destination' tab is active. It prompts the user to 'Select Destination'. A dropdown menu shows 'Restore to the original location' selected. Below, a table lists available destinations with columns for 'Destination', 'Inventory IP', 'VM Storage', and 'Selected VM Size'. The entry 'albert_k8s' is highlighted.

Third Screenshot (Restoring VM Names): The 'Summary' tab is active. It prompts the user to 'Restoring VM Names' and provides instructions: 'The name of a restored VM can be duplicated with the name of the source VM. Choose one of the following options to restore the VM name.' Two radio buttons are shown: 'Overwrite' (selected) and 'Rename'.

尚不支援HyperV異機還原

清晰的介面與簡易的操作方式讓您快速上手

總覽頁面可以快速掌握所有任務狀態



任務總覽頁面，可進行快速操作

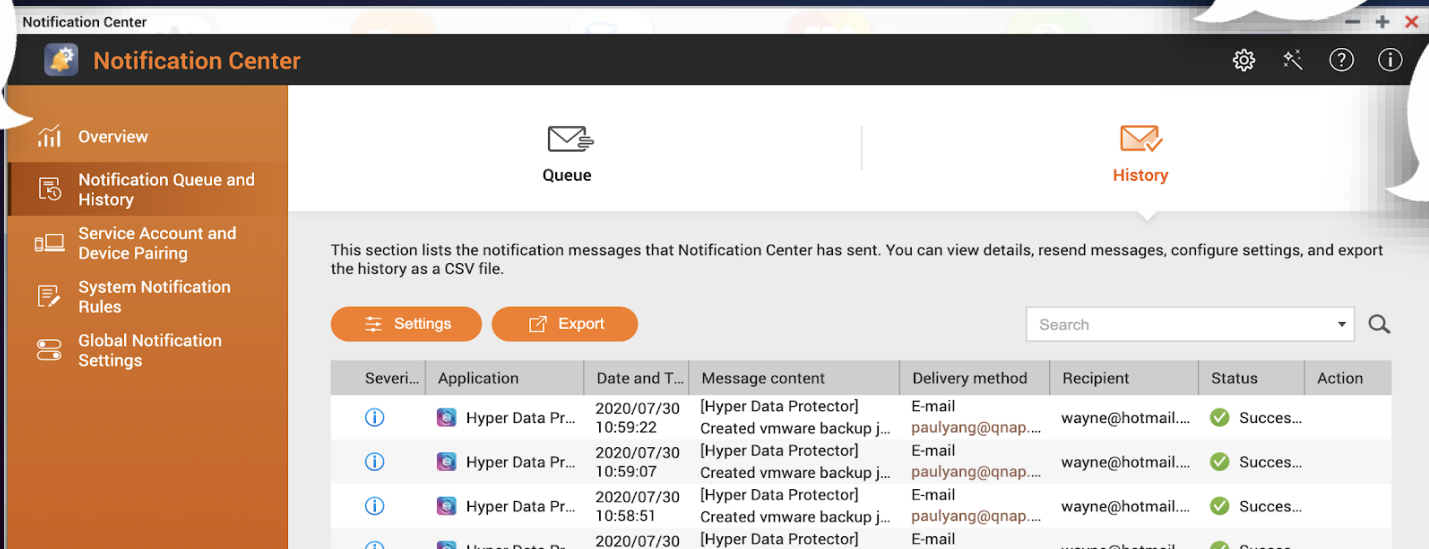
The Job Status page allows for detailed management of individual backup tasks. It includes tabs for 'My Jobs' and 'Activities', and filters for 'All Jobs' (3), 'Backup Jobs' (3), and 'Restore Jobs' (0). A search bar and a 'Force Delete' button are also present. The main table lists jobs with columns for checkboxes, Job Name, Source/Repository, Schedule, Backup Size, Date & Time, Type, Status, and Action icons.

	Job Name ↓	Source/ Repository	Schedule	Backup Size	Date & Time	Type	Status	Action
☐	WayneVMware	VM list: 1 DataVol1/Public	Manual	11.70 GB Total backup size: 11.70 GB	Start time: 2020-07-29 14:28 Estimated completion time: -	Backup	00:12:02 36%	
☐	TestBackup	VM list: 3 DataVol1/Public	Manual	2.04 KB Total backup size: 2.04 KB	Start time: 2020-07-29 14:29 Estimated completion time: -	Backup	02:11:54 10%	
☐	ServerRoom	VM list: 1 DataVol1/Public	Manual	13.03 GB Total backup size: 13.03 GB	Start time: 2020-07-29 14:27 End time: 2020-07-29 14:36	Backup	Not started	

結合QNAP通知中心讓您掌握備份大小事

通知中心

- 電子郵件
- 簡訊
- 即時通訊應用程式
- 推播服務



Notification Center

Notification Center

Overview

Notification Queue and History

Service Account and Device Pairing

System Notification Rules

Global Notification Settings

Queue

History

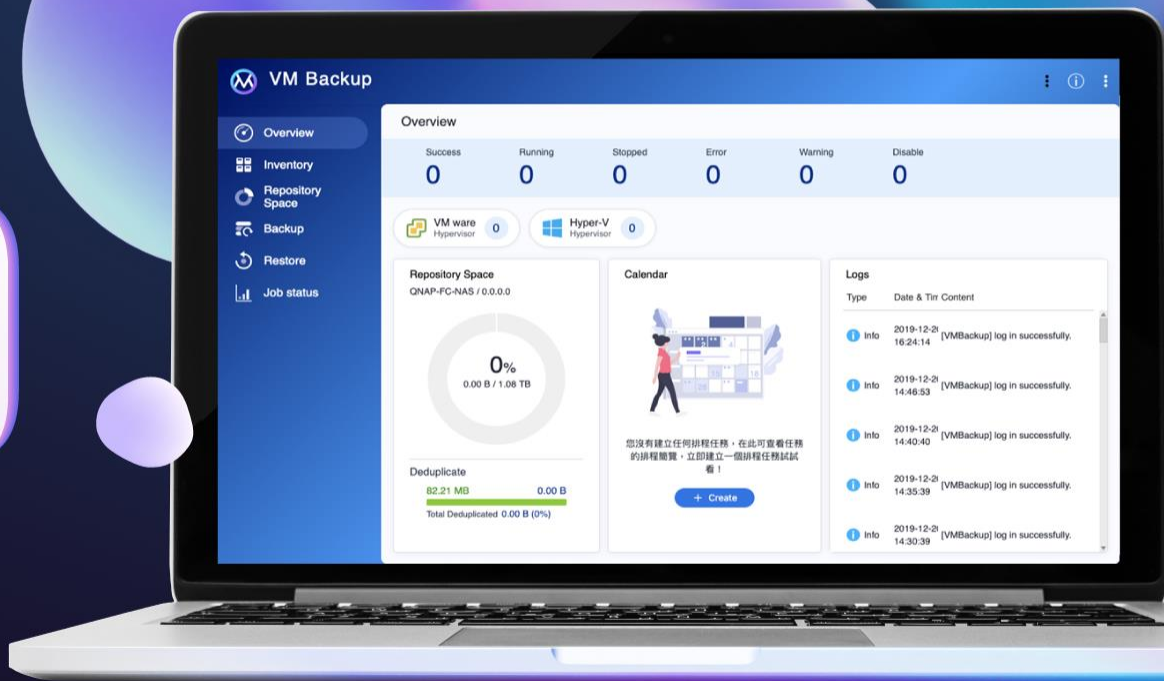
This section lists the notification messages that Notification Center has sent. You can view details, resend messages, configure settings, and export the history as a CSV file.

Settings Export

Search

Severi...	Application	Date and T...	Message content	Delivery method	Recipient	Status	Action
①	Hyper Data Pr...	2020/07/30 10:59:22	[Hyper Data Protector] Created vmware backup j...	E-mail paulyang@qnap...	wayne@hotmail...	✓ Succes...	
①	Hyper Data Pr...	2020/07/30 10:59:07	[Hyper Data Protector] Created vmware backup j...	E-mail paulyang@qnap...	wayne@hotmail...	✓ Succes...	
①	Hyper Data Pr...	2020/07/30 10:58:51	[Hyper Data Protector] Created vmware backup j...	E-mail paulyang@qnap...	wayne@hotmail...	✓ Succes...	
①	Hyper Data Pr...	2020/07/30	[Hyper Data Protector]	E-mail	wayne@hotmail...	✓ Succes...	

DEMO



來自我們Beta用戶回饋的聲音

- **達到高速備份：** 90%的Beta回饋用戶滿意HDP備份速度，在預期的時間範圍內完成虛擬機備份
- **成功縮減資料量：** 80%的Beta回饋用戶滿意Deduplication, Compression的效果能成功縮減備份的資料量
- **易上手的操作介面：** 90%以上的Beta回饋用戶覺得我們精心設計的操作介面，是容易理解且容易上手

實際Beta用戶的評論：

- Very nice in a small company to have a backup recovery solution if the Master server fails
- It's an excellent tool.
- The product is very easy to use and a great solution for small businesses. I did notice it pushes older hard drives hard during a backup window but then again I am running an older NAS and drives. Product runs great even on a 4 year old NAS unit! Very happy overall and hoping that this can replace my Veeam server in my small business environment.
- thanks for developing new technologies for qnap

建議機種

僅支援 QNAP x 86 架構 (Intel 或 AMD 處理器) NAS 機種

SMB 入門 TS-653D

VMs: 30
Concurrent: 3 VMs

- Intel® Celeron® J4125 quad-core 2.0 GHz processor
- 8 GB SO-DIMM DDR4 (2 x 4 GB)
- 6 Drive Bays



SMB 中階 TVS-872XT

VMs: 100
Concurrent: 10 VMs

- Intel® Core™ i5-8400T 6-core 1.7 GHz Processor
- 16 GB SODIMM DDR4 (2 x 8 GB)
- 8 Drive Bays



SMB 高階 TS-1683XU-RP

VMs: 200
Concurrent: 15 VMs

- Intel® Xeon® E-2124 quad-core 3.3 GHz processor
- 64 GB UDIMM DDR4 ECC (4 x 16GB)
- 16 Drive Bays



企業級 TDS-16489U R2

VMs: 500
Concurrent: 20 VMs

- E5-2620 v4 8-core 2.1 GHz processor x2
- 64GB RDIMM DDR4 (8 x 8GB)
- 16 Drive Bays



測試環境初始化後僅安裝Hyper Data Protector

QNAP



QNAP NAS 提供

Hyper Data Protector

主動式備份中央控管系統
您的虛擬機備份最佳選擇！

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