

QNAP

HBS 3 v.14

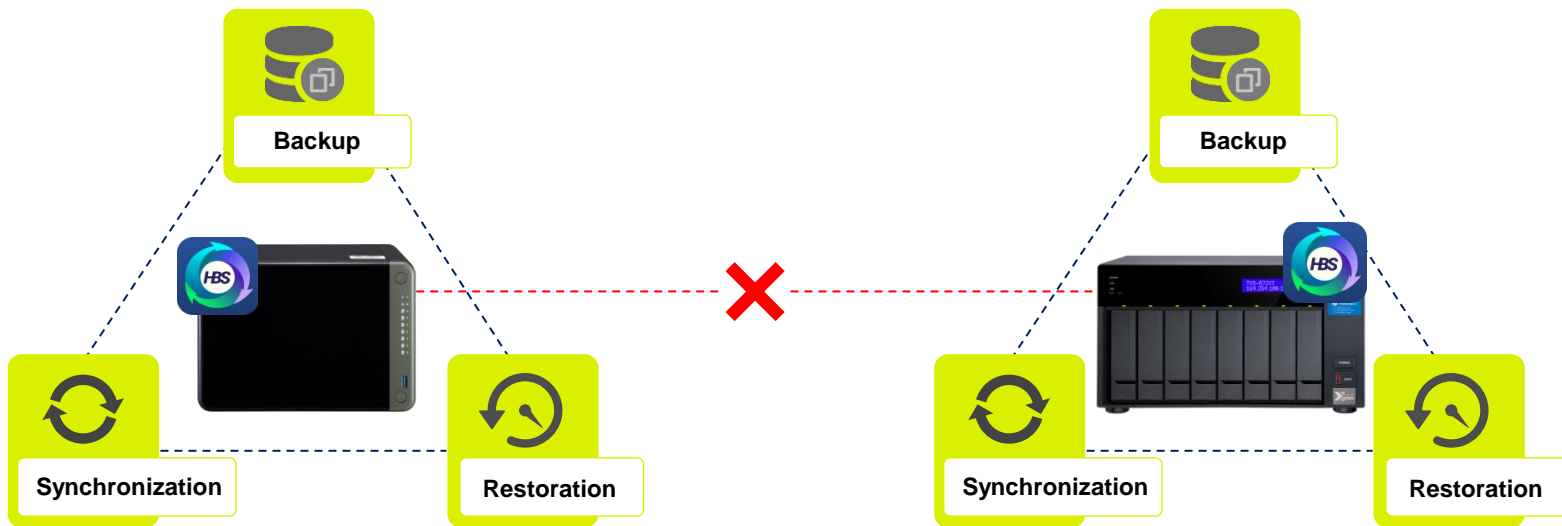
Backup job automation and comprehensive
job history for extensive storage applications



Backup job automation only supported local NAS on HBS 3 v13

HBS 3 provides “run once after job” function that customer can set tasks and schedules according to their needs, then the workflow will be automatically executed.

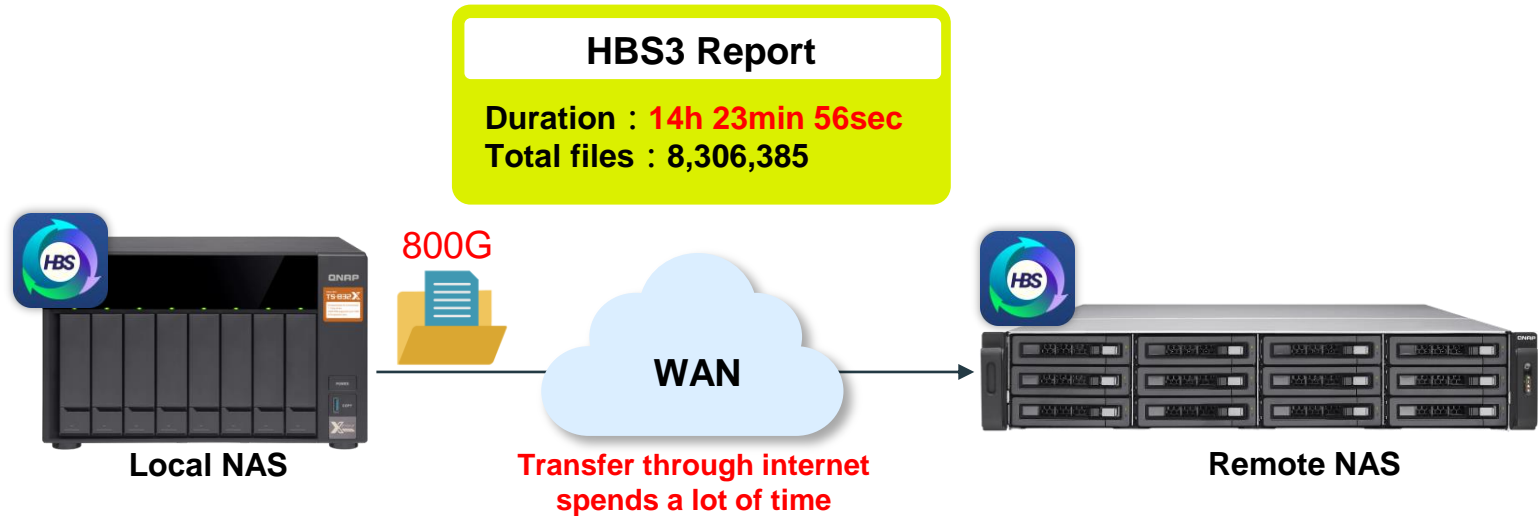
But this function only supported local NAS on HBS3 v13. You cannot link tasks between NAS.



Big data migration to remote NAS taking too much time when syncing data to remote directly

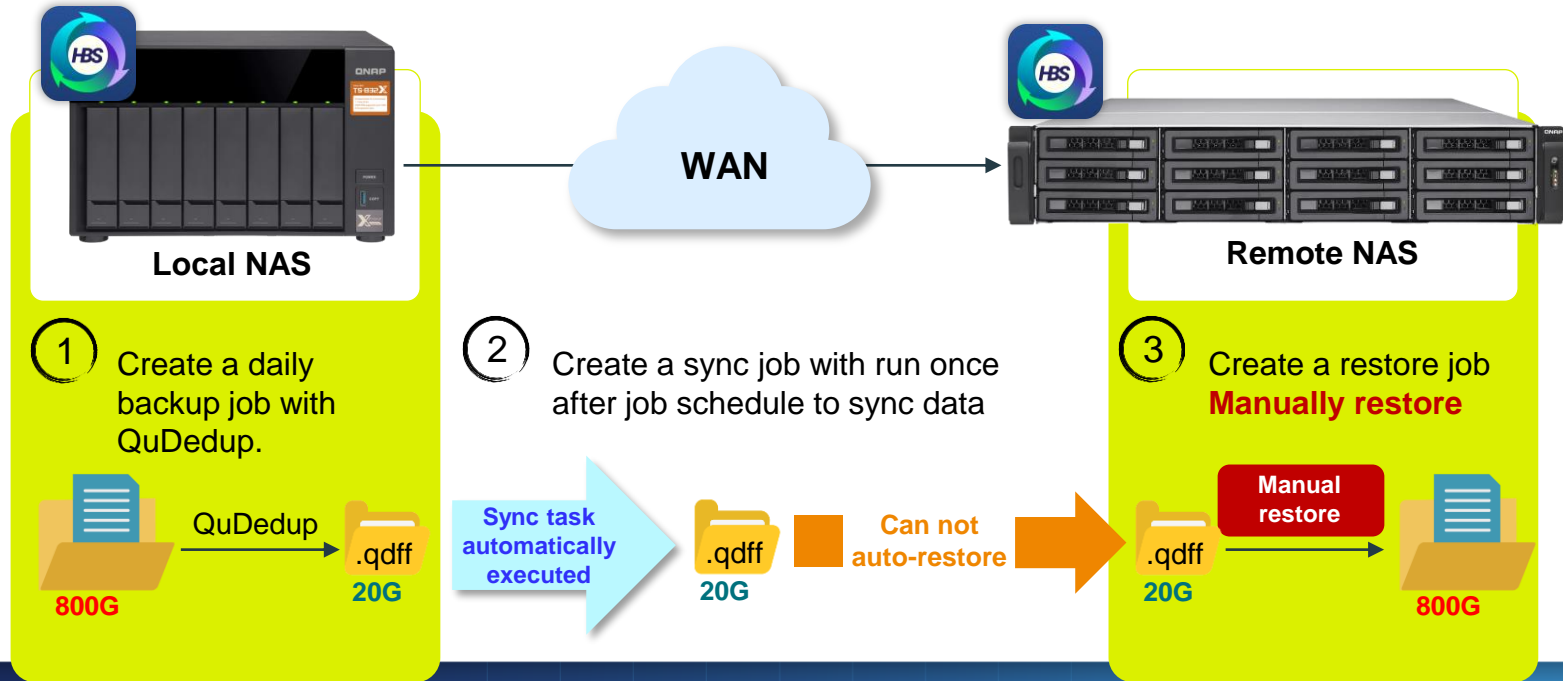
Problems when IT staff migrating big data

A service provider generated millions of files every day in their environments and the size is almost 800GB. The user want to sync the data to remote NAS through Internet, but it is time consuming thus affecting daily operations



Customer solved the time issue by using the "run once after job" function, but this function only supported jobs on local NAS

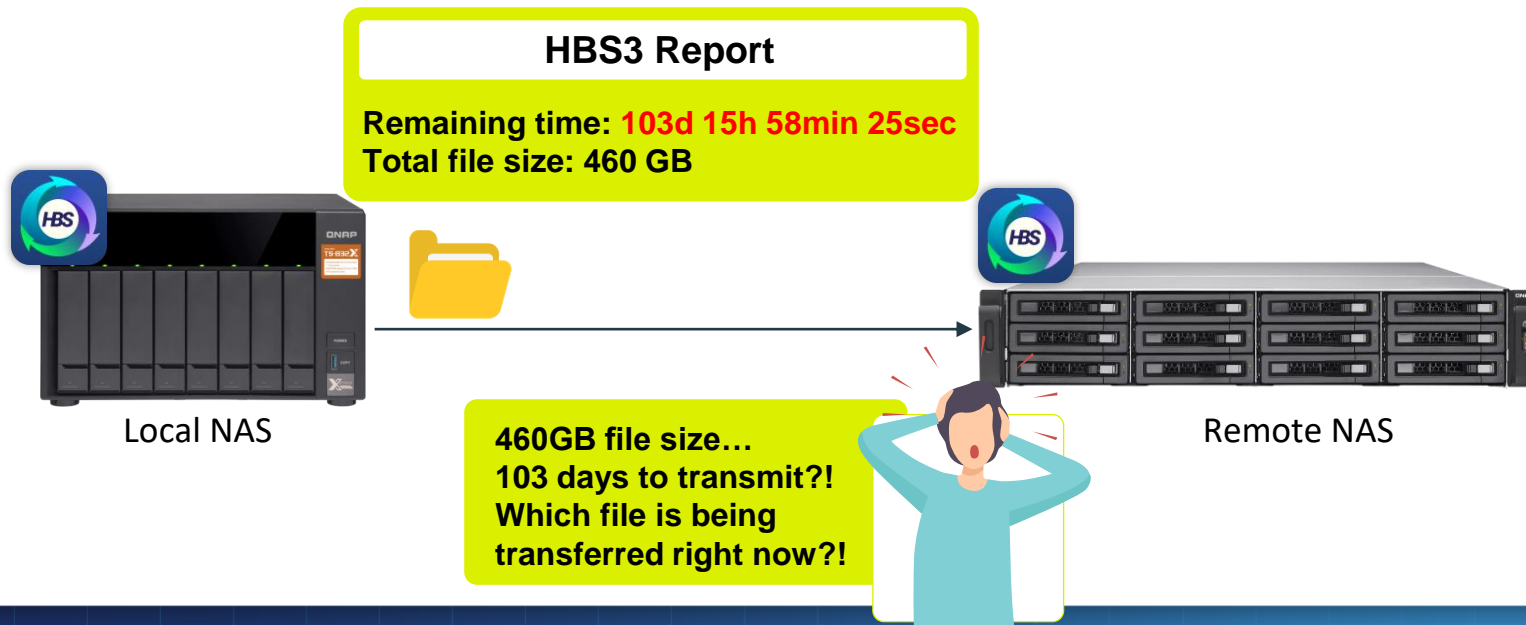
The customer created a daily backup job with QuDedup function and successfully dedup'd the data from 800GB to 20GB. And then a sync job is created with "Run once after job" schedule to sync 20GB data to remote NAS. Although some time is saved with job auto execution, he still needs to restore the data on remote NAS by himself.



When the backup task is running, it is impossible to know which file is being transferred and the current transfer speed

IT staff want to know the current task status

During the task, sometimes the estimated remaining time provided by HBS 3 is super long. Although it should return to normal shortly, it is still quite surprising to see it. More detailed information could be provided, such as the file being transferred, its size, current transfer speed, etc.

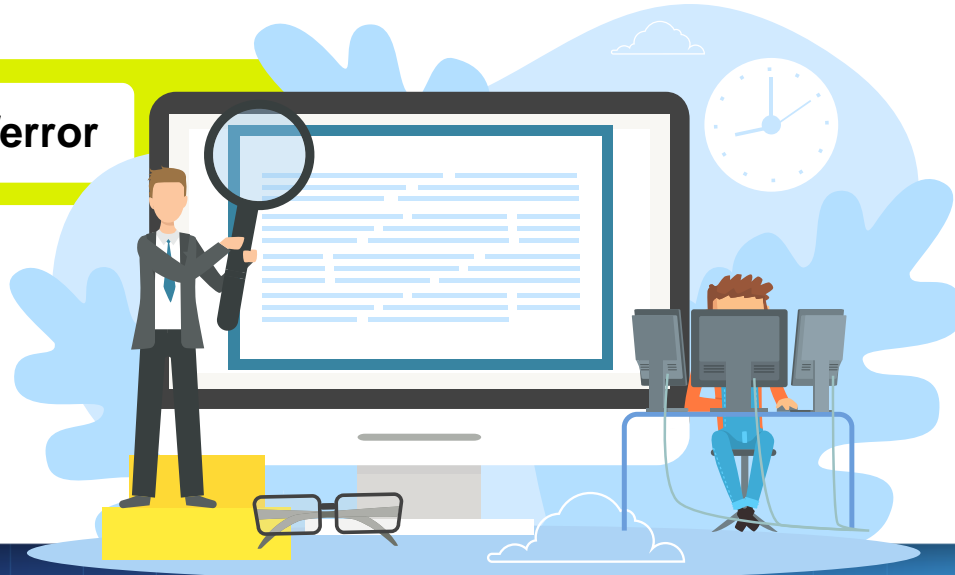


Each file backup result must be recorded to maintain a proper audit trail

When error or warning messages are shown on HBS 3 dashboard, the auditor will ask IT whether these abnormal states are recorded, and the reason for the abnormal backup task.

Therefore, IT needs to download the HBS 3 syslog, find the entry one by one in the syslog, and then reply to the auditor. It takes a lot of time, and sometimes it may not be found.

Backup warning/error



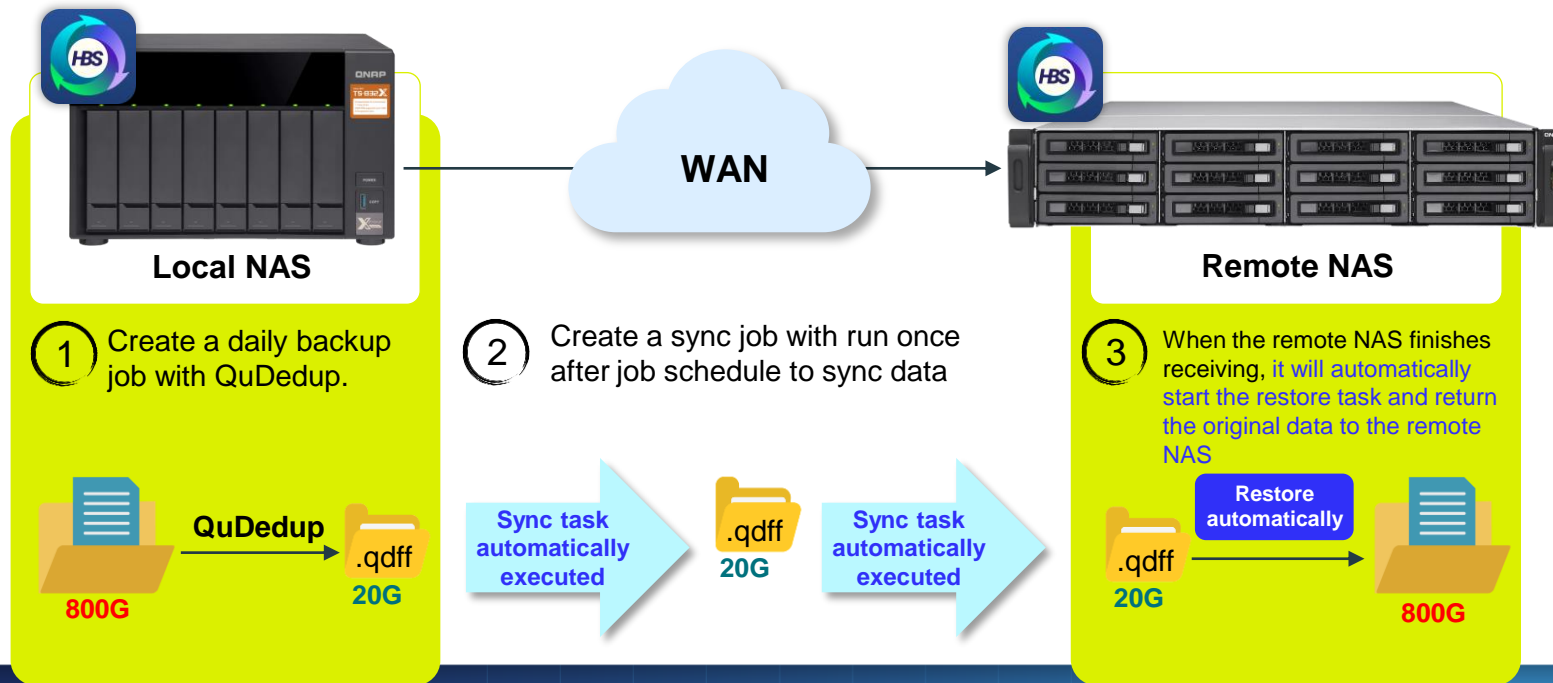
QNAP

Meet HBS v14



Tasks are continuously executed between NAS to help IT automate the backup/file transfer process

With backup process automation, when the first scheduled task ends, linked subsequent tasks will be triggered for execution until the entire process is completed. The automated process helps IT staff easily back up/move massive data.



Chain any tasks in sequence across NAS,
and let the workflow automatically carries out



Backup Job

Restore Job

One-way sync

Two-way sync

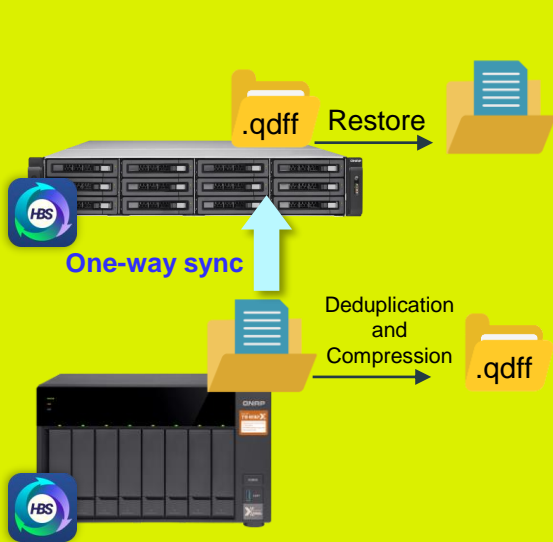
Active sync



Versatile situations to configure your tasks and let the workflow automatically carries out

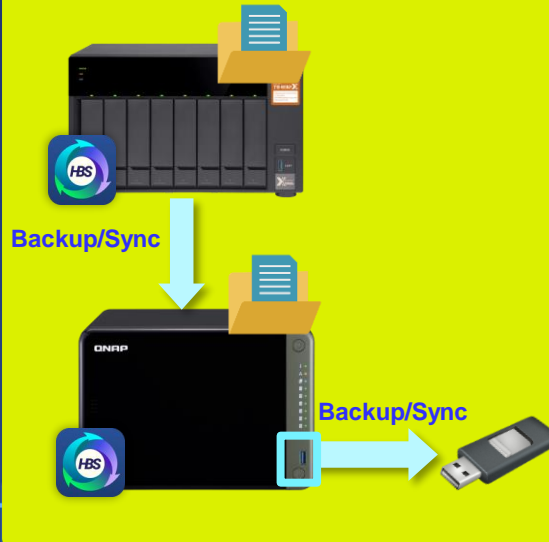
Big Data Migration

Lots of data dedup'd on local NAS and sync the data after. Finally, restore on remote NAS automatically



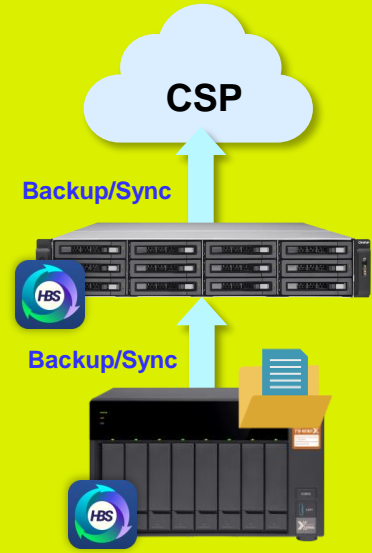
Backup to external device(USB)

Back up the data to remote NAS and back up the data to external device after



Data migration after archiving to cloud

Data migrate to data center and archive to cloud service provider (CSP) after



When job is running, click the status message to view the execution status and file status

The screenshot shows the HBS 3 Sync interface. On the left, a sidebar lists several sync jobs: One-way Sync 14 (One-way Sync Job), One-way Sync 13 (One-way Sync Job), One-way Sync 12 (One-way Sync Job), Active Sync 3 (Active Sync Job), Two-way Sync 1 (Two-way Sync Job), Active Sync 2 (Active Sync Job), and One-way Sync 11 (One-way Sync Job). The main area displays 'One-way Sync 14' with a 'Syncing...4%' status and a 'Previous sync: --' message. A hand icon points to the status message. Below, it shows 'Local NAS TVS-872N 172.17.30.67' as the destination and 'DummyFiles' as the source.

Job Run Status

Job name: One-way Sync 14 | Sync

Status: **Syncing...5%** [Local] Remaining files: **329 (32.13 MB)**
Start time: **2020/12/18 15:50:13** (Size):
End time: **--** [Local] Files to be processed (Size): **1000 (97.66 MB)**
Duration: **00:04:24** Transferred file size: **66.02 MB**
Total transmission speed: **255.44 KB/s(Calculating...)**

File Status	File Name	File size	Start Time	Progress
Uploading	dummy-00000812.bin	100 KB	2020/12/18 15:56:27	100% (102.52 KB/s) 0 minutes
Uploading	dummy-00000828.bin	100 KB	2020/12/18 15:56:27	100% (106.36 KB/s) 0 minutes
Uploading	dummy-00000835.bin	100 KB	2020/12/18 15:56:27	100% (181.76 KB/s) 0 minutes
Uploading	dummy-00000840.bin	100 KB	2020/12/18 15:56:28	100% (448.59 KB/s) 0 minutes

Hide Details Close



When a job finishes, you can view the summary of the current backup task report

Report

Job Name: Backup 5sf_Clone | Backup

Settings

Job History Logs

Runs	Start Time	Processed Files	Total Transferred Size	Status	Action
2	2020/10/15 17:27:53	--	0 B	Success	
1	2020/10/14 11:25:23	9	19.06 KB	Success	

Close

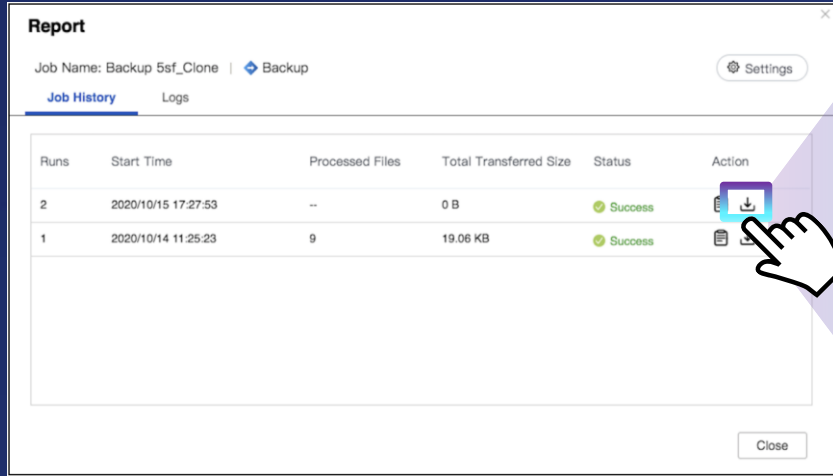
Task Information

Job name : Backup 1 | Backup (Task : No.2)

Status :	Successful	Skipped files :	2
Started Time :	2020/01/03 09:20	Unchange files :	2
End Time :	2020/01/03 10:20	To be update files :	21 (3.45MB)
Duration :	2 minutes	Processed files :	21 (3.45MB)
Total files :	30 (6.34 MB)	Transferred files :	21 (3.45MB)
Filter files :	2	Final transmission speed :	4.34 MB/s
Estimate RTO :	1d 3h 20min	Data reduction rate :	23%
Estimate RPO :	1d 3h 20min		

Close



Each file has a transfer record: if the file transfer is abnormal, there is a record to follow



Report

Job Name: Backup 5sf_Clone | Backup

Job History Logs

Runs	Start Time	Processed Files	Total Transferred Size	Status	Action
2	2020/10/15 17:27:53	--	0 B	Success	
1	2020/10/14 11:25:23	9	19.06 KB	Success	

Close

- **Filtered files:** Calculate the number of files with filters set by the user.
- **Skipped files:** Calculate the number of files that the system skipped uploading due to some errors.

Job Name_ Transferred files list

Name	Size	Status	Date&Time	Notes
/qmail.png	10B	Upload	2020/07/22 03:51:56	Cannot write property.
/www.jpg	10B	Download	2020/07/22 03:51:56	
good.doc	10B	Upload	2020/07/22 03:51:56	
/oed.doc	10B	Download	2020/07/22 03:51:56	
/gwod.doc	10B	Upload	2020/07/22 03:51:56	
/goood.doc	10B	Local	2020/07/22 03:51:56	
/target.db-shm	5MB	Upload	2020/07/22 03:51:56	

Notes: If the file has been uploaded or downloaded but incomplete, write the reason in the block.

[Job name] Files that Were Filtered or Skipped

Name	Size	Status	Reason	Date&Time
/qmail.png	10B	Skipped	IO error	2020/07/22 03:51:56
/www.jpg	10B	Skipped	Permission denied	2020/07/22 03:51:56
good.doc	10B	Skipped	Rejected by the cloud	2020/07/22 03:51:56
/oed.doc	10B	Skipped	User-defined filtered files, hidden files, and symbolic links.	2020/07/22 03:51:56
/gwod.doc	10B	Skipped	User-defined conflict policy setting	2020/07/22 03:51:56
/goood.doc	10B	Filtered	Authentication error	2020/07/22 03:51:56
/target.db-shm	5MB	Filtered	Insufficient storage space	2020/07/22 03:51:56

Total files: 14 Filtered files: 8 Skipped files:6

To avoid the log occupying all storage space, set the time limit of log keeping in Settings

Report

Job Name: Backup 5sf_Clone | Backup

Job History Logs

Runs	Start Time	Processed Files	Total Transferred Size	Status	Action
2	2020/10/15 17:27:53	--	0 B	Success	
1	2020/10/14 11:25:23	9	19.06 KB	Success	

Settings

Close

設定

Set Rules to Manage Filtered and Skipped File History
Delete logs from the database when the following events occur :

- Delete records older than this number of most recent runs: 7
- Delete records for runs executed more than this amount of time ago: 6 月

Delete all file logs

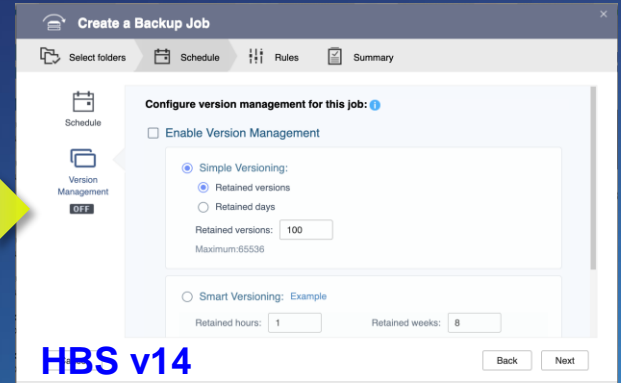
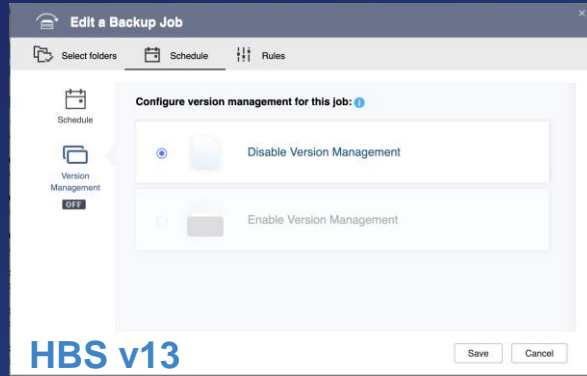
套用 關閉

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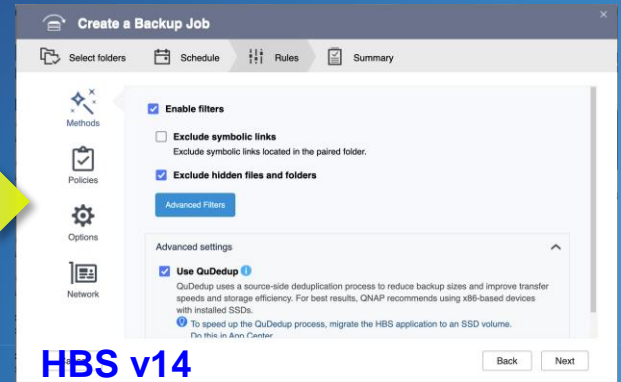
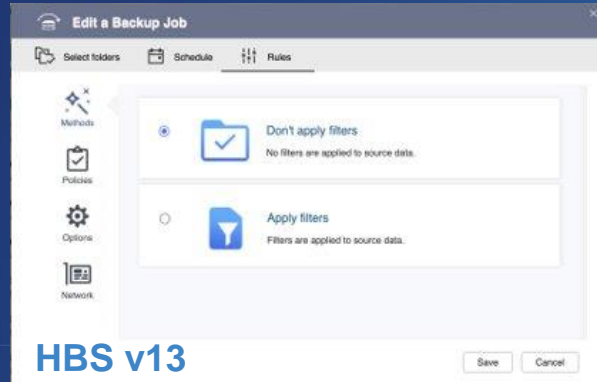


HBS 3 user interfacing fine-tune

1. The refreshed UI design creates a smooth and clean setting



2. The filter options frequently used by users are directly displayed on the Rules page, and the easy-to-use Advanced filters button creates an integrated and structured setting process.



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job history for extensive storage applications

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