



Agenda

Part 1

- 1. Does VM backup drive you crazy?
- 2. 5 reasons to back up VMs with QNAP and Archiware Pure
- 3. Detailed function introduction
- 4. Live demo

Part 2

- Backup challenges for media and entertainment industries
- 2. 5 reasons to back up media files with QNAP and Archiware P5
- 3. Detailed function introduction
- 4. Live demo



Archiware Product Overview



Pure assists you turn QNAP
NAS into a backup
appliance, and efficiently
create a permanent and
free VMware virtual
machine backup
environment



P5 is suitable for the M&E industry, assisting you back up, archive, and synchronize QNAP NAS files to other NAS, tape or public cloud

VM Backup Giving You Headaches?

Backing up VMware VM is important, but you may encounter the following problems...

- Not enough budget to buy backup software
- No additional free server
- Taking too long to install and configure
- Not sure if previous backups were successful





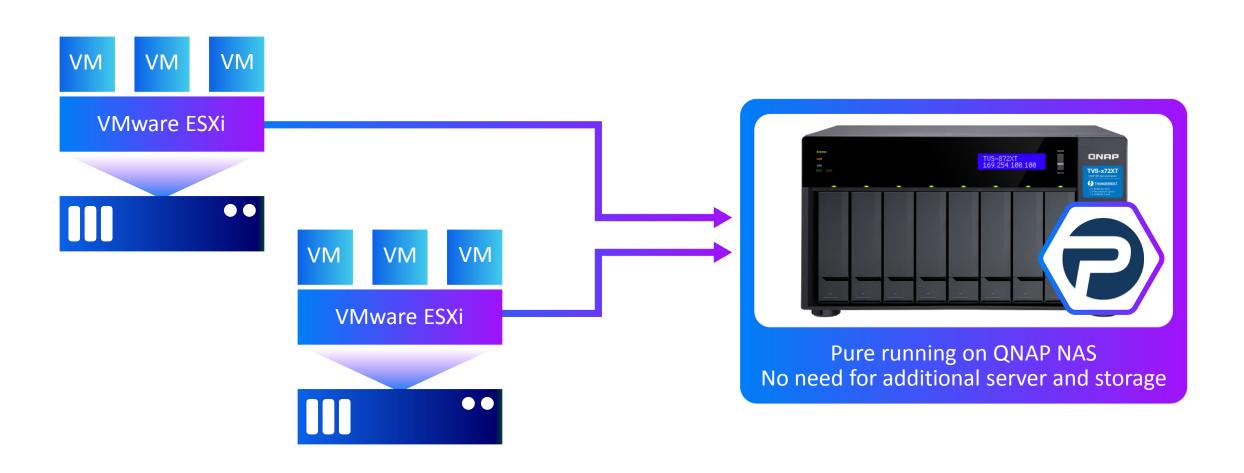
5 Reasons
to Use QNAP
and Archiware

- 1 Hardware and software close integration
- 2 Free software with full functionality
 - ✓ support unlimited number of ESXi hosts
 - √ support unlimited number of virtual machines
 - ✓ optional (paid) technical support
- 3 No need to deploy additional server for backup
- 4 Five-minute installation and setup
- 5 Optionally perform a data verification for each backed up snapshot

Let us simplify the VM backup so that you can focus on other important tasks

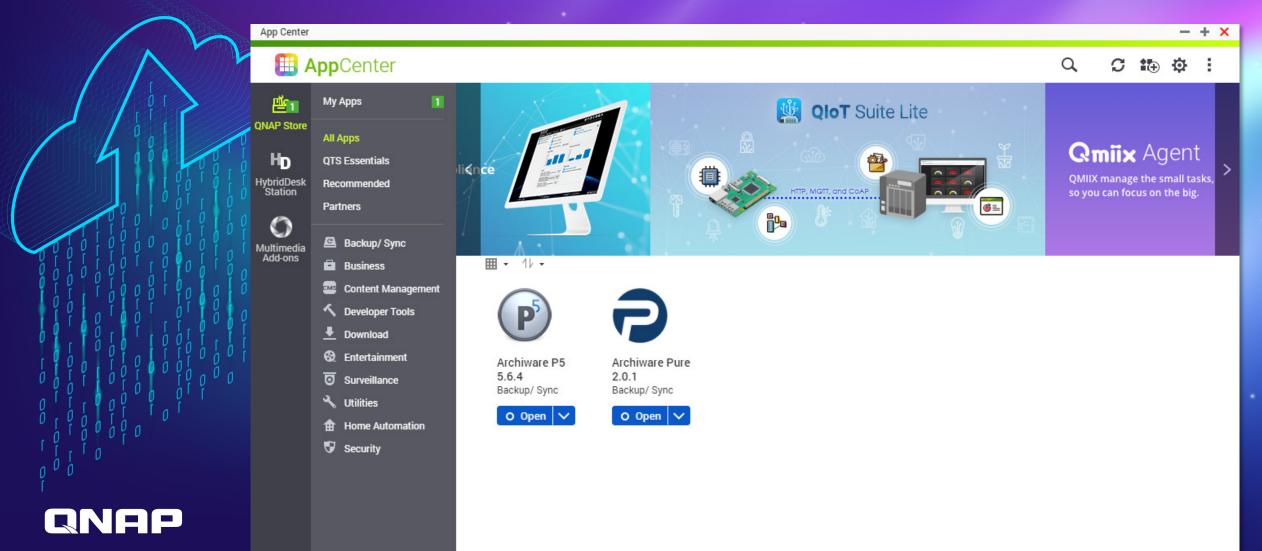


Turn Your NAS into a VM Backup Appliance in Seconds





App Center One-click Installation Enjoy Your VM Backup Journey Immediately



QNAP Advanced Technology to Protect Your VM and Data



Easy to build your 3-2-1 backup Plan HybridMount, VJBOD Cloud, HBS 3



Snapshot

RAID



Support SSD Configuration to Boost Your VM Backup









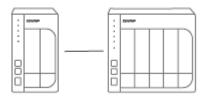
Support for Building High-speed Backup Networks and Speeding up Data Transfer



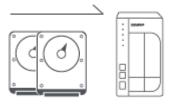


Flexible and Economical Storage Expansion

Attach Expansion Enclosures



Upgrade RAID Capacity



Hot swap lower-capacity drives with larger-capacity drives so that your QNAP NAS can grow with your business.

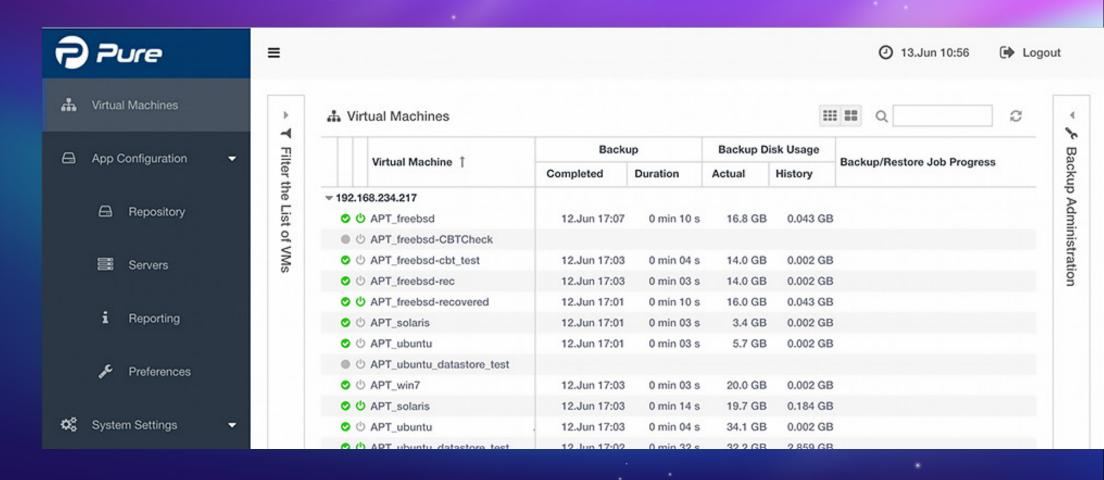
VJBOD



Use VJBOD (Virtual JBOD) to expand your storage capacity by using the unused storage of other QNAP NAS. Up to 8 QNAP NAS can be mounted as local disks on the NAS.



Browser-based Setup and Operation to Get All Backup Tasks Done





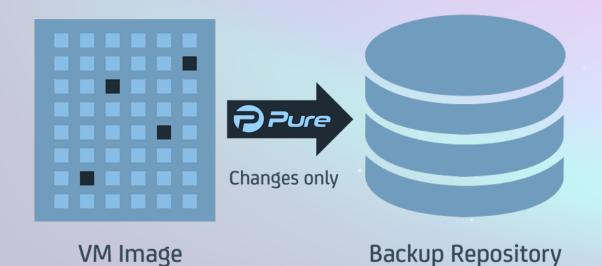
VMware VM Backup for FREE

Archiware Pure . Others ⊗ Complicated pricing models ✓ Support unlimited number of ESXi - by CPU or core number - by VM number ✓ Support unlimited number of VMs ⊗Features are locked based on license ✓ Enjoy full functionality ✓ Optional technical support (199USD/yr) types ⊗Annual subscription fee



Changed Block Tracking

Only save the data that was actually changed since the last backup, speeding up backups and decreasing the required storage

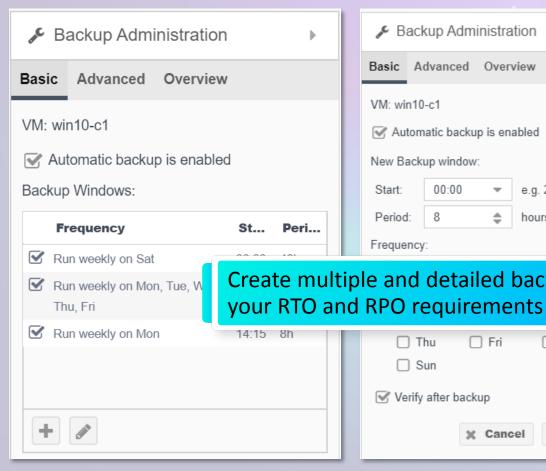


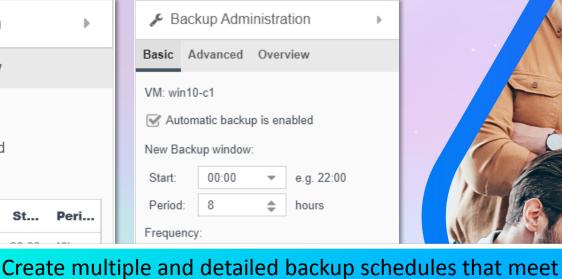


Flexible Backup Task Schedule and Smart Data Verification

> ☐ Thu Sun

Verify after backup



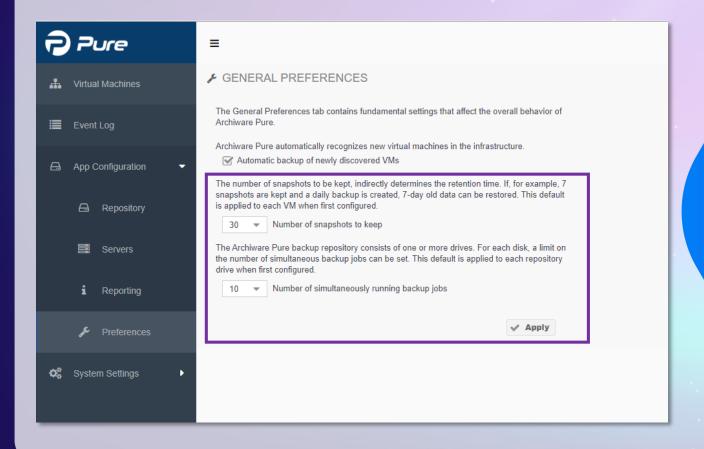


★ Cancel



One click to ensure that the data in the backup repository corresponds byte by byte to the actual VM state.

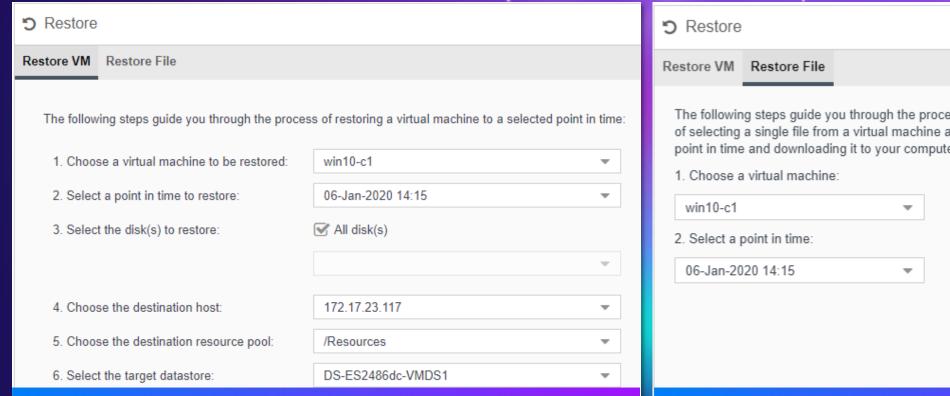
Support Multiple Backup Tasks



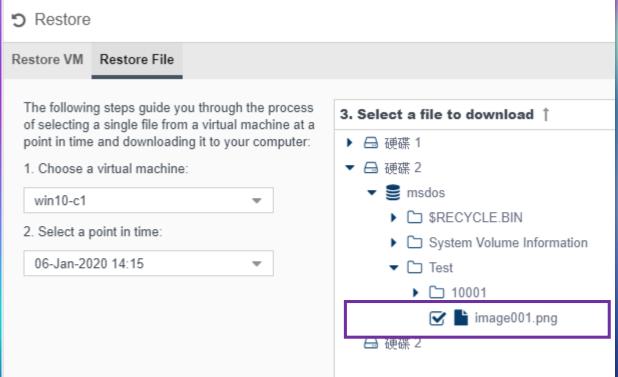




Not Only VMs Can be Restored, But Also Specific File(s) in the VM



Restore a dedicated VM



Restore specific file(s) in the VM



Optional Pure Support Package

What is it?

- One-year unlimited number of technical support
- Support in English and German

How to buy?

Purchase the service directly via Archiware Portal









TVS-x72N



- Intel® Core™ i3 4-core processo
- 2 x NVMe M.2 2280 slot
- 2 x PCIe Gen3 slots
- 5G / 2.5G / 1G Multi-gigabit

Part 1

Live Demo

Due to the increase of high resolution cameras and large 4K video demand, the incoveniences of storing large files becomes a big issue...

- Worrying about losing your original video or images?
- What's is the backup and archive destination?
- How to back up your videos and images securely?
- How to reuse previous files?



5 Reason to Use QNAP and Archiware P5

- 1. The most powerful NAS
- 2. Built-in useful file organization and search tools in the NAS
- 3. Multiple protections for precious video and image files
- 4. Easily implement the 3-2-1 backup rule (at least 3 copies, 2 different backup media, and 1 off-site storage)
- Support NAS file archiving to tape devices, offering you one more option besides backing up to the cloud

















The best NAS to help You create the next viral video

Provides high-speed storage solutions optimized for Video Production with vital features, data protection, enhanced collaboration and unprecedented performance





Killer Features

Thunderbolt Ready

Thunderbolt™ 3 NAS features ultra-high transfer speeds, making collaboration between Mac and Windows users faster and simpler

PCIe Expandability

Allows for graphics cards or 40GbE/ 25GbE/ 10GbE adapters to increase application performance.

Support M.2 SSD

Install M.2 PCIe (Gen 3 x2, 2 GB/s) NVMe SSDs (sold separately) to set up caching or storage pools, improving file access efficiency.

4K Ready

4K media playback and real-time transcoding; directly view creative works on an HDTV via HDMI 2.0 (4K @60Hz) output.

Snapshot

Fully record system status and data, allowing you to protect files and data from accidental deletion and malware attacks.





TVS-872XT Offering Unprecedented Performance for Media Editing



Test Environment: NAS: TVS-872XT OS: QTS 4.4.0

Volume type: RAID 5; 8 x SAMSUNG SSD 860 PRO 512GB

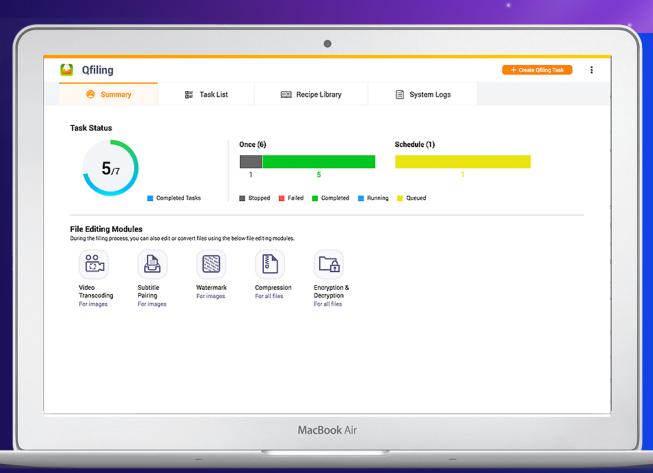
Mac-NB:

MacBook Pro® (15-inch, 2016), Intel® Core™ i7 2.9GHz CPU, macOS: 10.13.5 High Sierra, 16GB RAM

AJA System Test (Version 2.1) resolution 5120*2700 5K RED and 10bit YUV (1GB) codec



QTS Built-in Qfiling Simplified File Organization



Create your Qfiling rules in 3 steps

Step1

Ofiling provides various filters to determine the files you want to organize, including file name, file size, modified date and more.

Step2

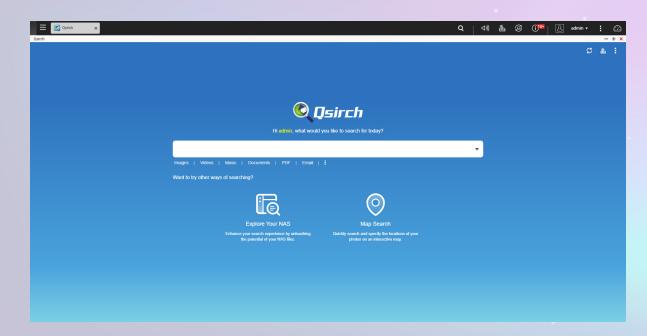
Several editing modules are available for you automate the editing task throughout the file organization process, including video transcoding, encryption & decryption, compression and more.

Step3

Set the destination path, folder structure, and add more options (such as renaming all the files) and your files will automatically be organized to the right folder.



QTS Built-in Qsirch Assist You Efficiently Find the Right File



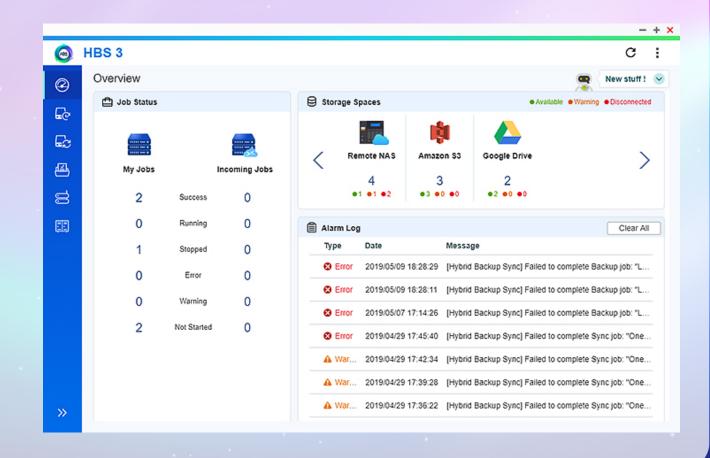
After Qsirch is enabled, it will automatically index all the files on NAS, allowing users to quickly find the files they need anytime. Qsirch and QTS share the same privilege settings, so users can only find the files which they are authorized to. Admin can flexibly remove Qsirch shared folders from getting indexed to protect sensitive data. The Admin can also exclude backup folders from getting indexed to avoid using too much system resource.



HBS 3 Multi-cloud Backup

Data deduplication, instant restoration and flexible synchronization

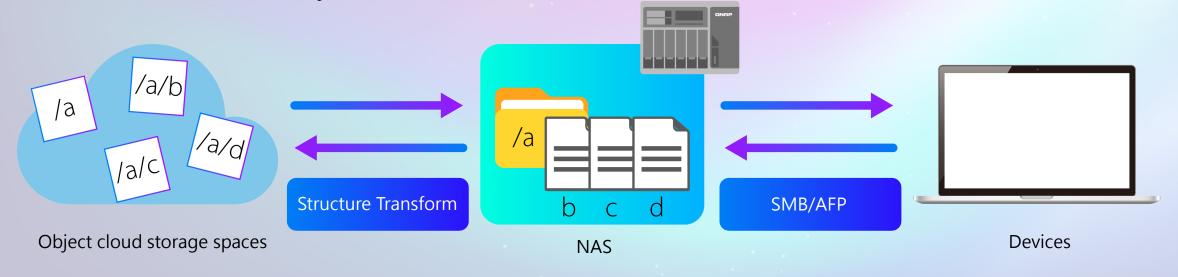
- QuDedup greatly reduces backup and recovery time
- Back up multiple versions even faster
- Directly view deduped data on computers using the QuDedup Extract Tool
- Expedited cloud backup with TCP BBR support
- Over 20 integrated cloud services
- Easy to build your 3-2-1 backup strategy and recovery plan





HybridMount Hybrid Cloud File-Based Gateway

Supports SMB, NFS, and AFP file transfer protocols for mounting the cloud storage to your NAS. The NAS cloud storage gateway now allows you to seamlessly access cloud-based files on your PC.



Backup vs Archive vs Synchronize What Should You Choose?

	Backup	Archive	Synchronize
	Duplication of data used for daily production	Migration of finished productions	A way to keep data sets identical in two locations (data distribution locally or worldwide) including failover
Needs	 Multiple file versions protection Access rights and ACLs backup Offsite backup to another NAS or public cloud 	 Data archive to tape for long-term protection Automatic backup of archive indexes for effective search and retrieval 	No restore is requiredSync to remote locationCloud enabled

QNAP X Archiware P5 can easily meet all the above needs



You Can Use the Fully Featured P5 as a Backup Assistant



Backup

Create secure copies of files for quick restoration



Archive

Migrate inactive NAS data offline to costeffective LTO tape or Cloud



Synchronize

Clone timecritical data to create a failover solution



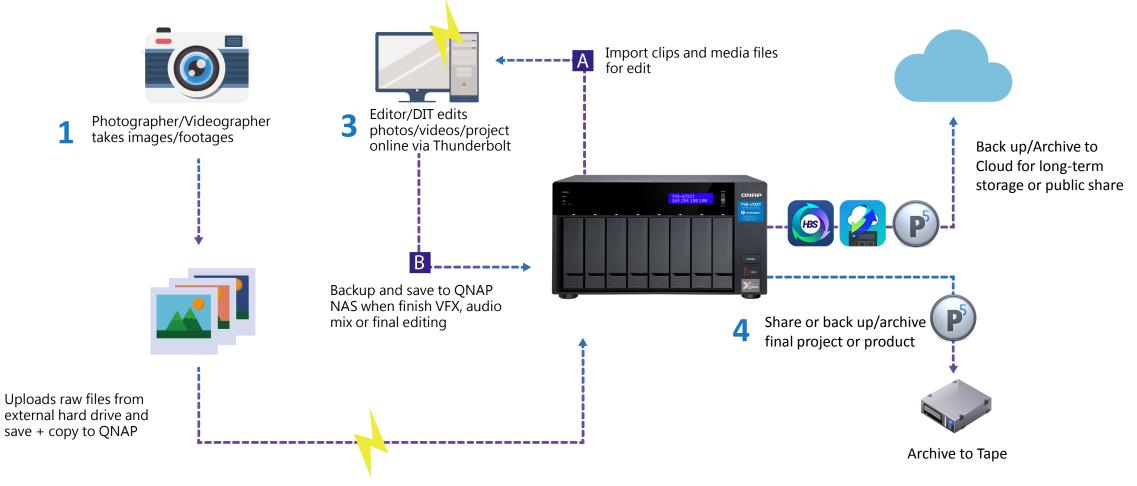
Backup2Go

Backup desktop and laptop data to central NAS



Offer 30-day trial version, you can buy a single module or enable all modules on the same NAS at the same time

QNAP X Archiware P5 Optimize Your Media Editing Work Flow



Target Storage Supported by P5

Disk Array



Any NAS and SAN storage vendor

Tape



All LTO generations Tape drive and library

Cloud



Amazon S3 / Amazon Glacier Microsoft Azure / Backblaze B2 Any S3 compatible (Wasabi, Alibaba)

Which Module is Right for You?

It depends on 'How long can you be without your data?'

Minutes	Cloning/ Failover NO Restore necessary	Synchronize
Hour(s)	Backup to Disk or Tape or Cloud	Backup
Day(s)	Long-term Archiving with off-site Storage to Tape or Cloud	Archive



Tape Backup Advantages You Shoud Know

√ High security

Data cannot be easily stolen and erased by hackers from outside. Enterprise and institutions, such as banks, insurance copmanies, national file archive and scientific research institutions, that have much more concerns about data security still use tape to backup and archive data

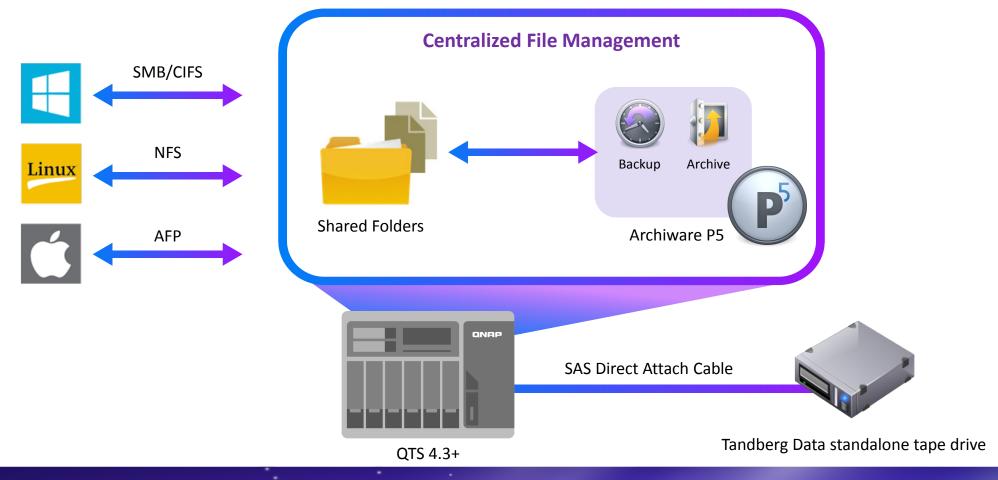
✓ Incredible durability and stability

Compared with hard drives, a normal-used and well-preserved magnetic tape can be used for decades.

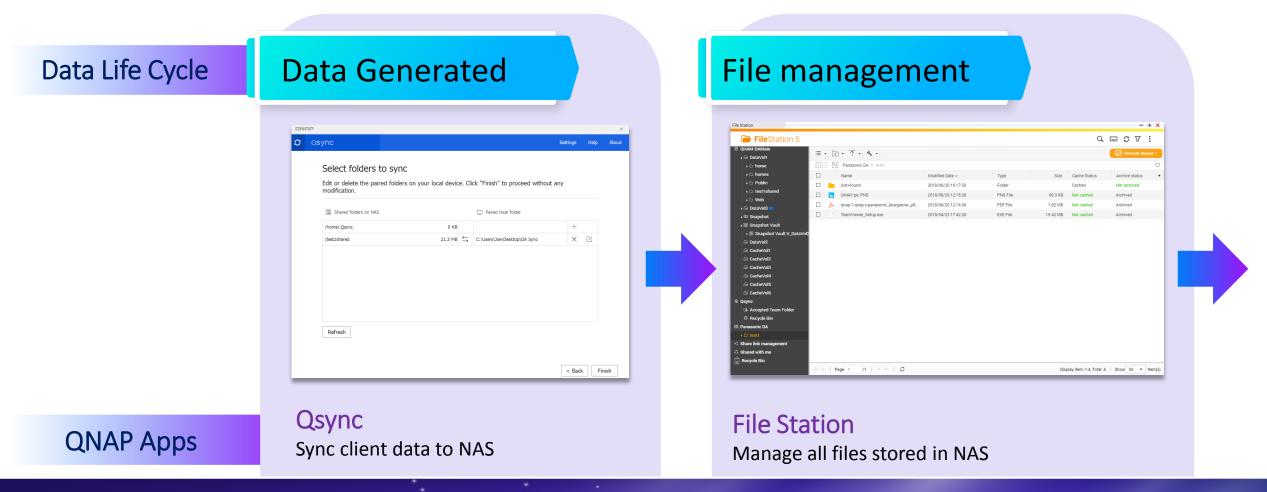




New Option for Long-term Data Storage: You Can Archive NAS Data to Tape Devices

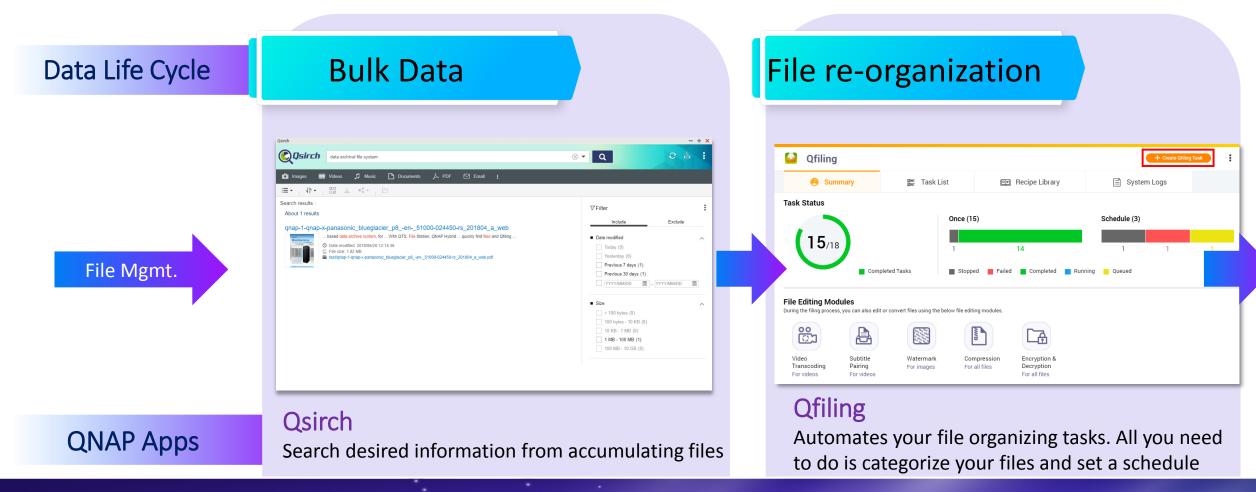


Manage Media File Life Cycle Through QNAP Applications





Manage Media File Life Cycle Through QNAP Applications





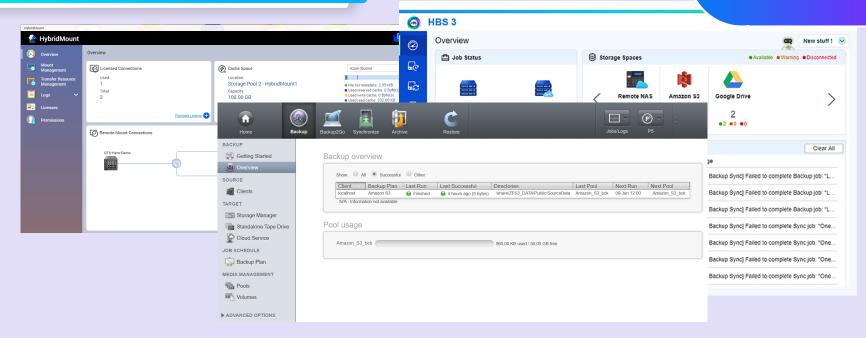
Manage Media File Life Cycle Through QNAP and P5 Applications

Data Life Cycle

Backup or Archive to Cloud

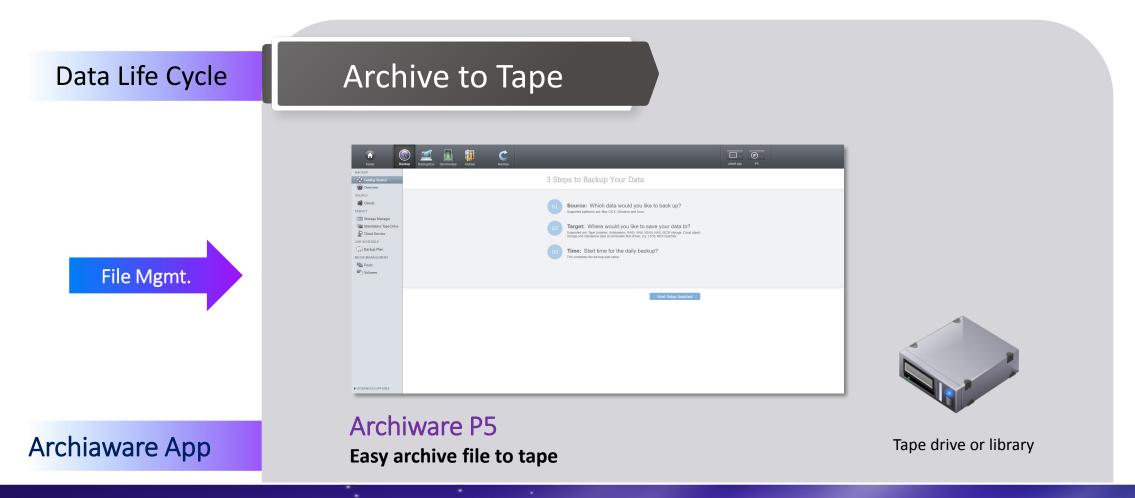
File Mgmt.

QNAP / Archiware Apps



HybridMount / HBS 3/ Archiware P5

Manage Media File Life Cycle Through P5 Applications











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- 2 x NVMe M.2 2280 slot
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Part 2

Live Demo



QNAP x Archiware

Best Backup Solution to Secure Your VMs and Digital Assets

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