

QNAP

QuTScloud

Cloud NAS Solution

Now supports Google Cloud Platform
and VPS Provider Contabo

c4.5.3 Oct.15 2020

1 | Introduction

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The background is a vibrant blue and purple gradient. It is filled with numerous small, semi-transparent squares of varying shades of blue and purple, creating a pixelated or mosaic effect. On the left side, there is a glowing, wireframe-like cube that appears to be emitting light. A horizontal line of small, glowing particles or dots extends from the cube towards the right. In the center-right area, there is a stylized, wavy line that resembles a signal or a data stream, composed of overlapping translucent blue shapes.

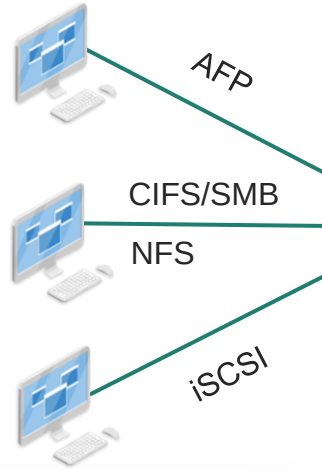
Introduction to QNAP Cloud NAS

QuTScloud

What is a Cloud NAS

A virtual appliance designed to work with and leverage cloud-based storage to give the functionality of a premise-based NAS

Uses cloud computing to simplify infrastructure and provide flexible deployment options while reducing costs.



Cloud NAS Solution



Virtual Machine



Compute



Storage

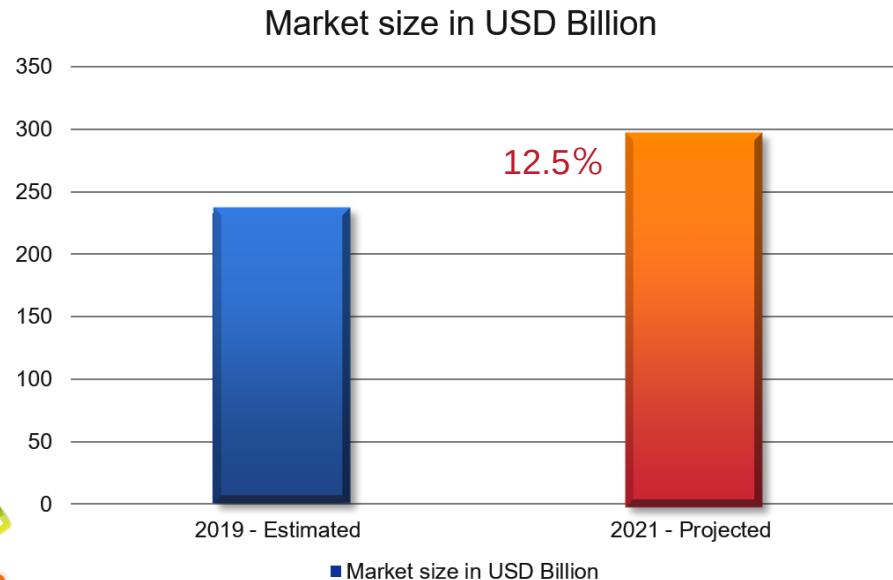


Trends in cloud market post Covid-19

The global impact of COVID-19 on cloud market size is expected to grow from **USD 233 billion in 2019** to **USD 295 billion by 2021**, at a **Compound Annual Growth Rate (CAGR) of 12.5%**

The market growth is attributed to increased usage of SaaS solutions as enterprises need to **support remote workforce**

Increasing **adoption of digital payment, online shopping and OTT streaming services** is expected to further aid the market growth





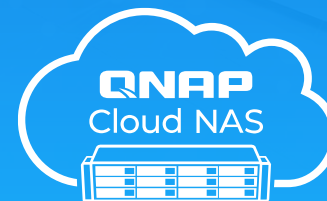
QNAP

QuTScloud

Is a Cloud NAS solution

Running on public cloud
platforms or on premise data
centers

That gives enterprises the
control to run mission-critical
applications and optimize their
cloud data usage



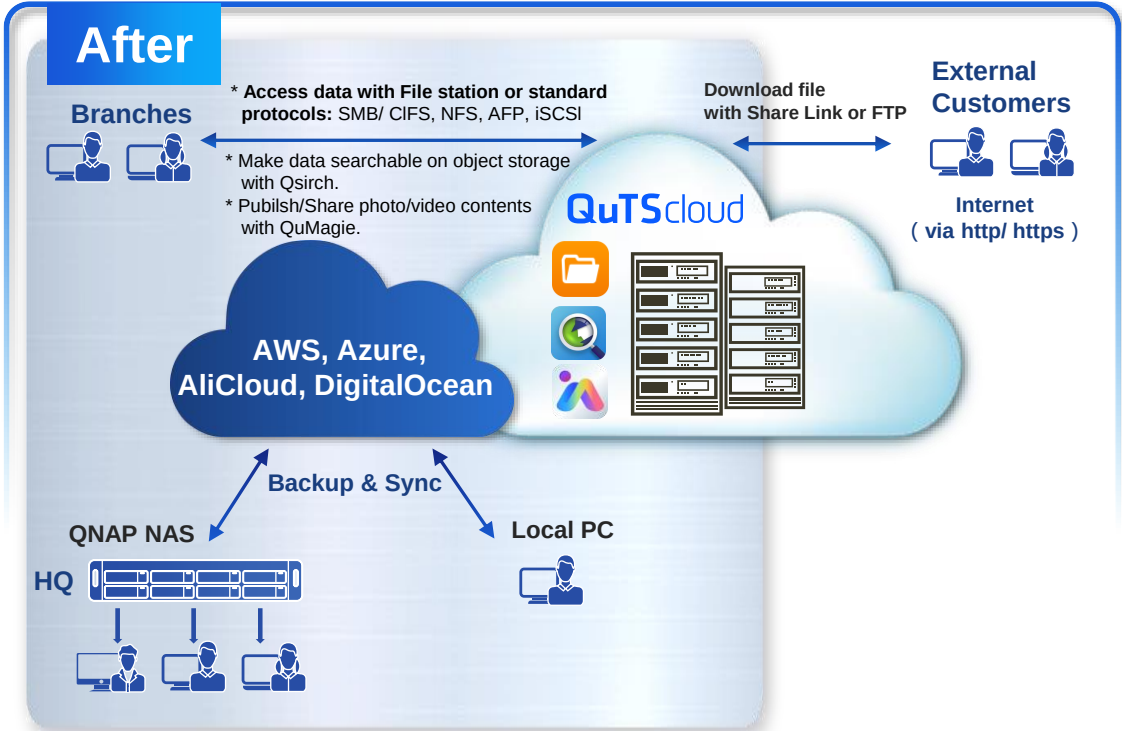
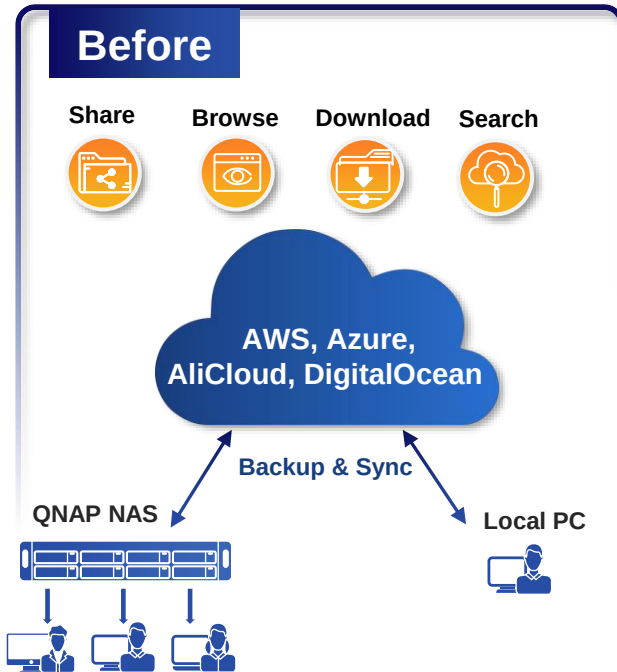
QuTScloud brings all the QTS experiences

QuTScloud Operating System



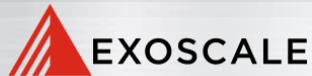
OS	Multimedia	Mobile Apps
Storage	IoT	WIN/MAC Utilities
Network	Notification	Full-text Search
Security	Licenses	& More...

Helps to optimize your data usage



Whats NEW ???

Cloud Platforms



Google Cloud



On-premise Virtualization Platforms



PROXMOX



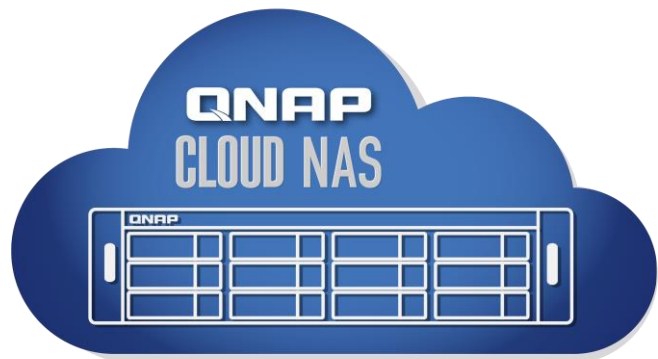
VPS Providers



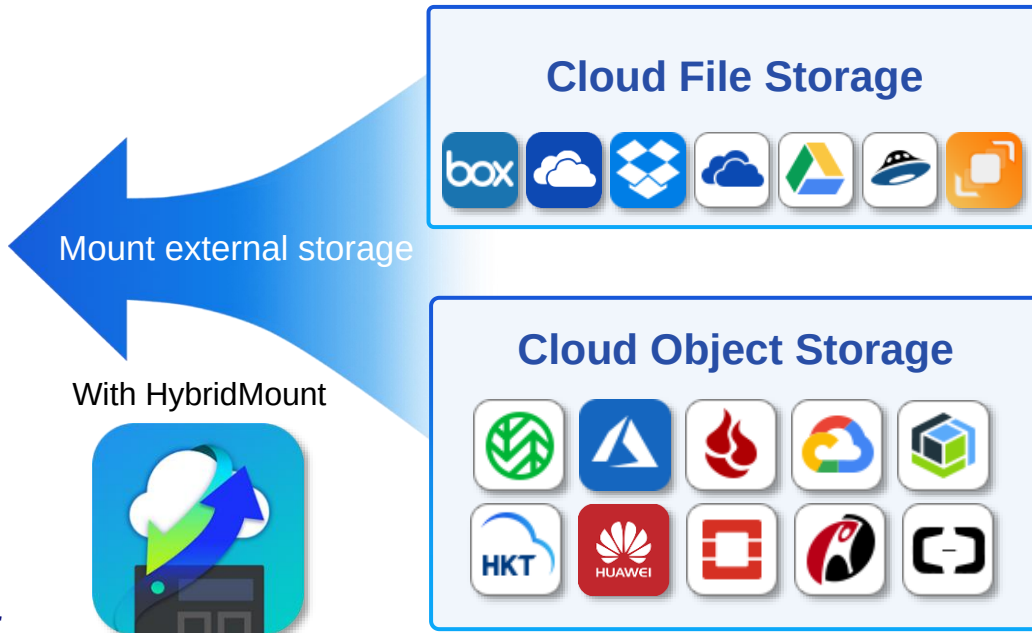
*Start your Cloud NAS
in less than **\$15 per**
month TCO*

Minimize Total Cost Of Ownership with Contabo

With Contabo, QuTScloud provides the most COST EFFECTIVE Cloud NAS Solution in the world



Start your Cloud NAS in less than **\$15 per month TCO**



Mount additional object storage to your Contabo VM

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Use cases &
success stories of

QuTScldoud

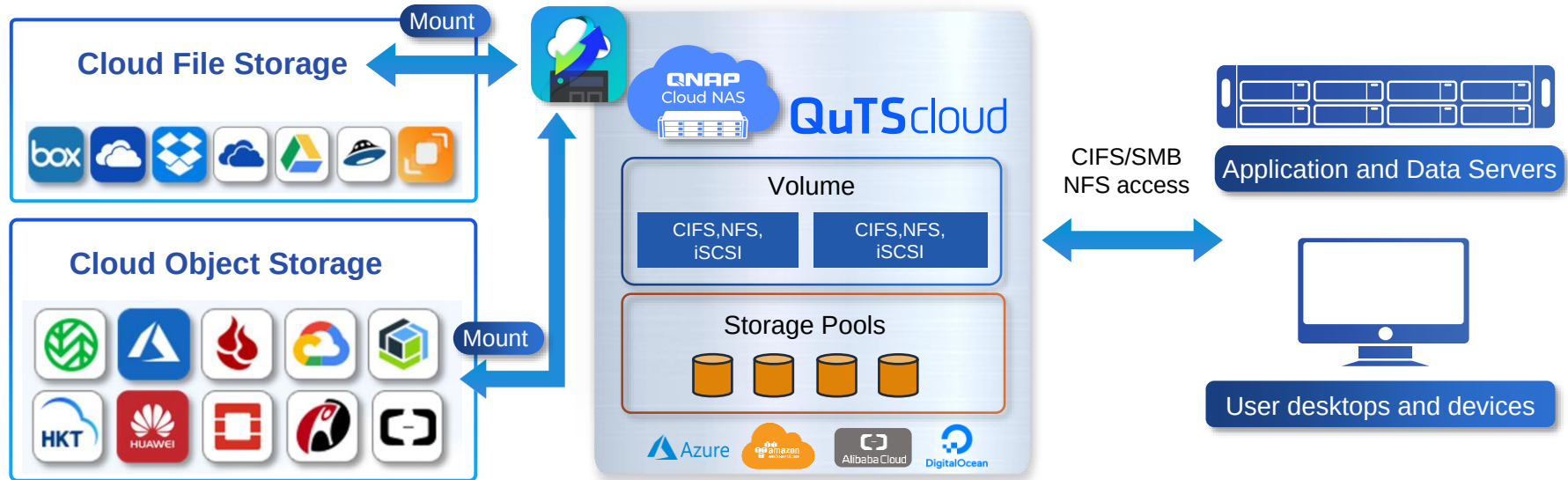
Centralized storage server on the cloud



IT admins want to extend their infrastructure to the cloud to centrally store, manage and share all of their dissipated data



QuTScoud is a complete storage and file sharing on cloud that supports file sharing protocols like CIFS/SMB, NFS and iSCSI. The HybridMount acts a gateway to all the cloud storage platforms, allowing users to access all their dissipated data from within QuTScoud. Using Qfile mobile app, the user can access data at their fingertips.



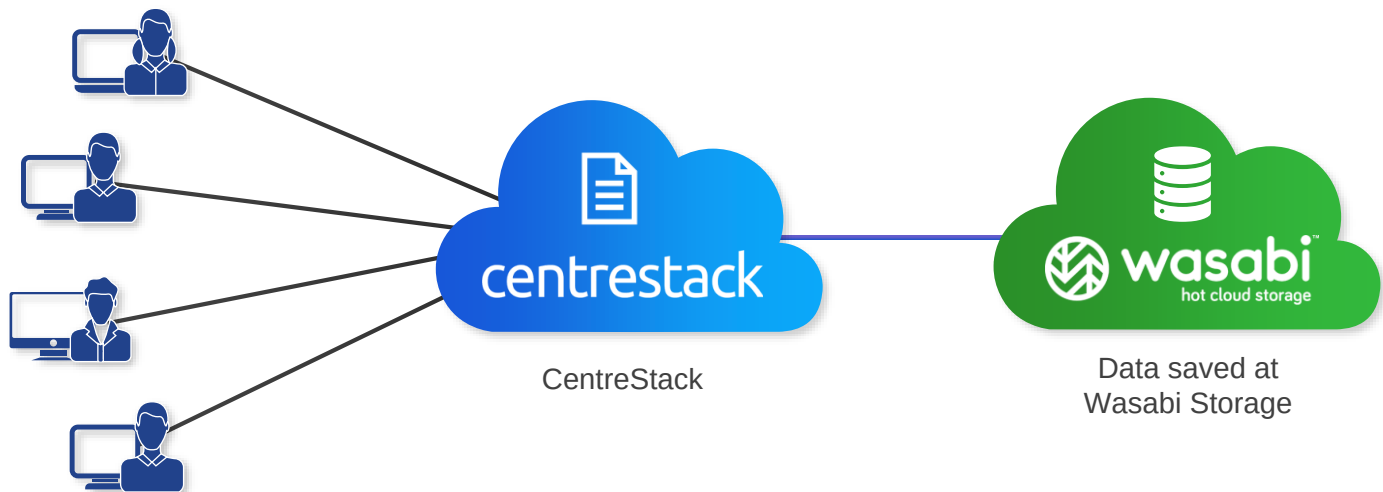
Success Story – Synapse IT (UK)

Background

- Use Wasabi Storage to store all the data
- They use CentreStack to provide access to the Wasabi buckets

Challenge

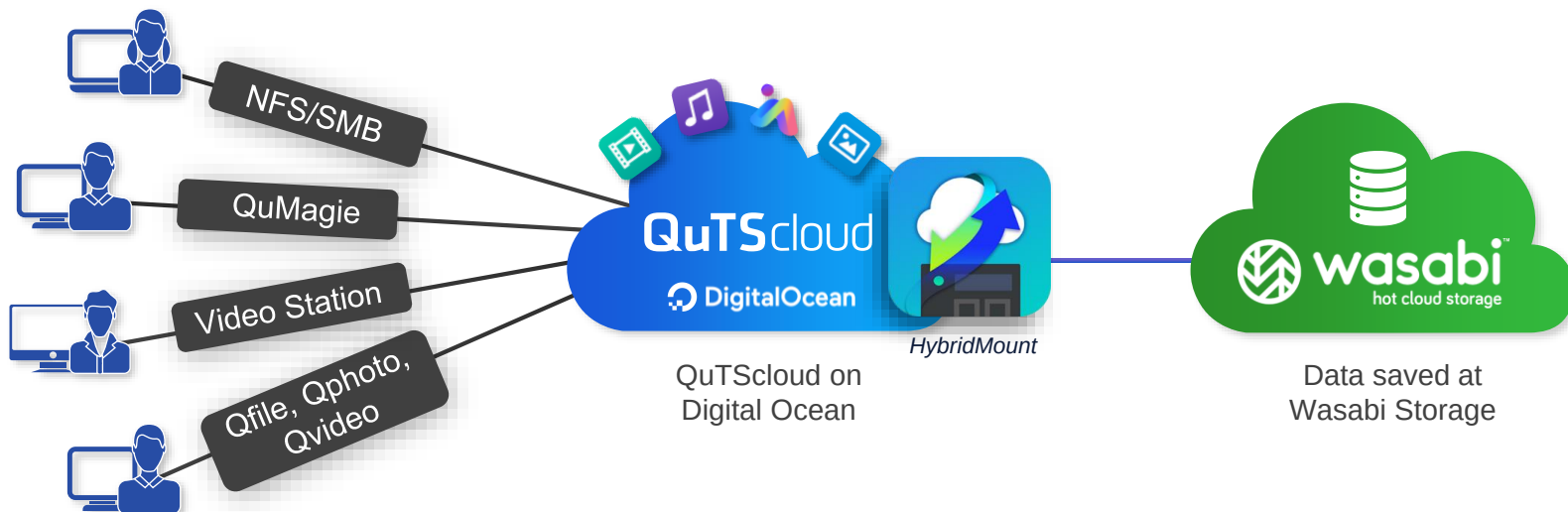
- Customers that want to access photos or videos don't have a good user interface to access their data



Success Story – Synapse IT (UK)

Solution

- Use HM to mount the Wasabi Buckets on QuTScLOUD
- Use QuMagie, Photo Station, Video Station to access the photos and videos stored on Wasabi



Success Story – Qvest Media (Germany)

Background

- Qvest provides online video editing solution (SaaS) hosted in AWS
- Use Adobe Premiere running in a Windows VM on AWS

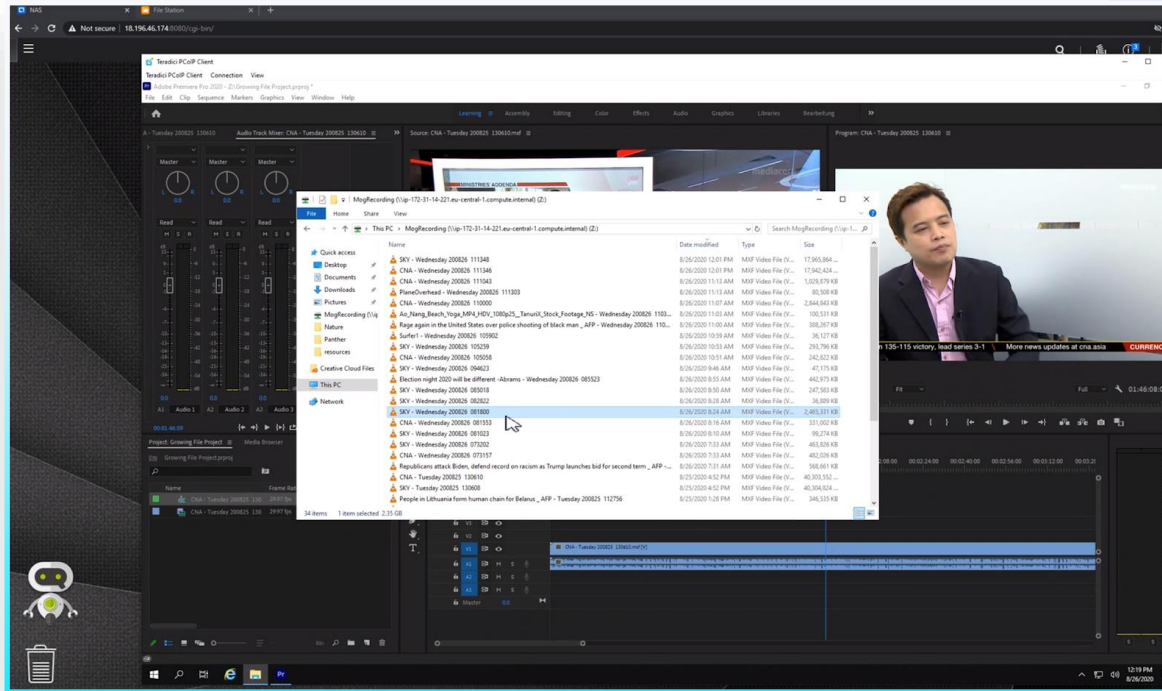
Challenge

- The videos are large in size. They want to drag and drop the videos into the Adobe Premier
- Storing videos in S3 is not feasible as reading from S3 is extremely slow

Success Story – Qvest Media (Germany)

Solution

- Looking for a Cloud NAS solution that can help to store and read the videos from the AWS EBS volumes
- Using QuTScloud on AWS and then using SMB to mount the storage to windows interface
- Drag and Drop the videos to Adobe Premier. 100 Mbps read speed demonstrated.
- Want to integrate QuTScloud APIs within their ecosystem



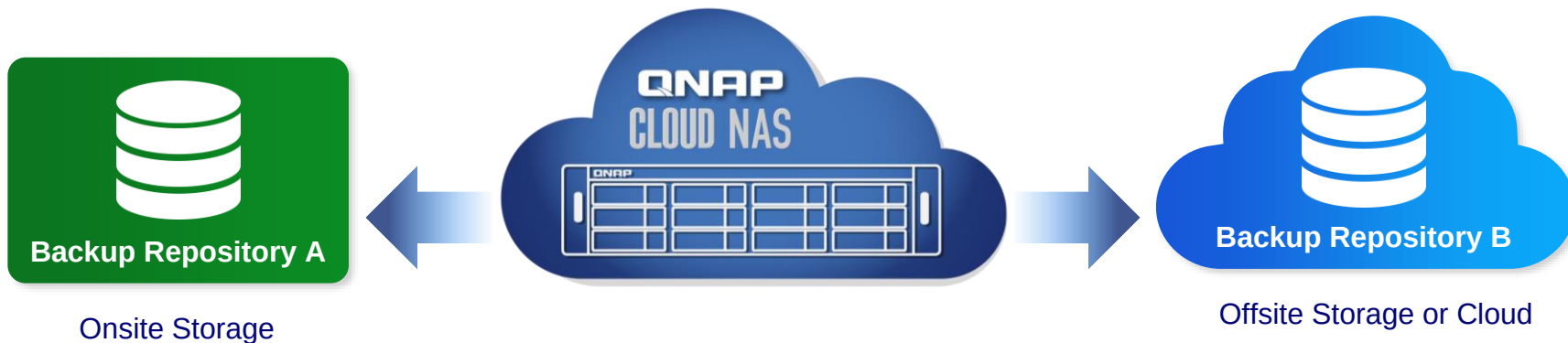
Multi-cloud backup and management for organizations



Businesses demand a comprehensive 3-2-1 backup plan with one backup On site and second backup in the Cloud



The IT team can setup on-site QNAP NAS as primary backup and QuTScloud as secondary backup. Using HBS3 the backups can be more fast and efficient.



Success Story – Lion Re:Sources (UK)

Background

- Use several QNAP NAS to backup data from onsite to cloud using HBS

Challenge

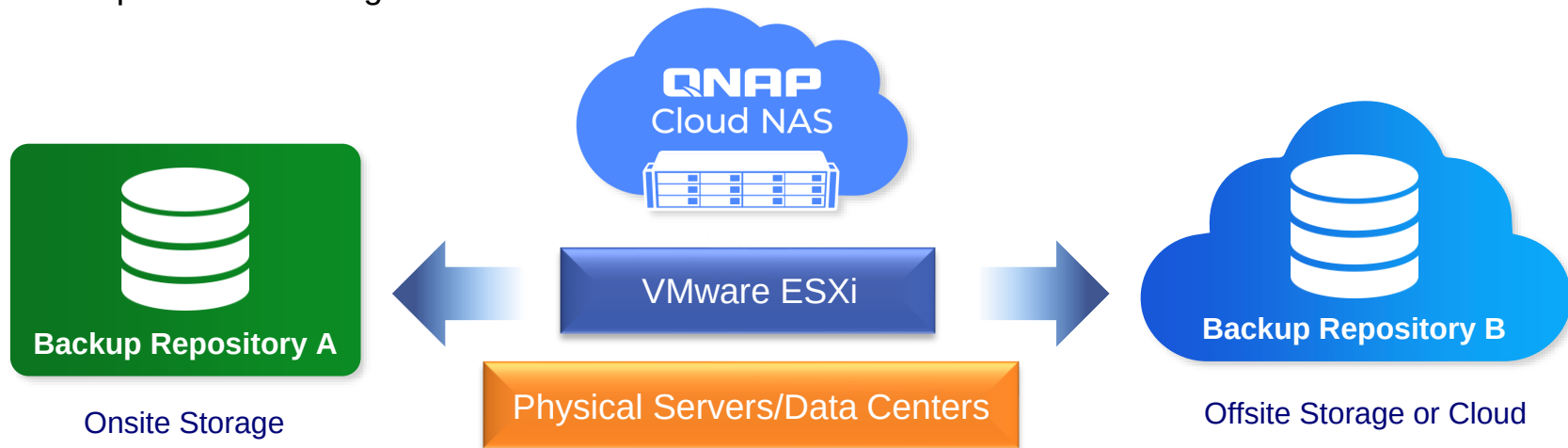
- HBS has maximum 10 parallel channels to perform backup jobs
- If the backup load increases or decreases, scaling up and down is not easy



Success Story – Lion Re:Sources (UK)

Solution

- Use 10 QuTScloud hosted on VMware and use HBS to backup the data
- Ease to scale up and down is the main reason for opting QuTScloud if the data load requirements change



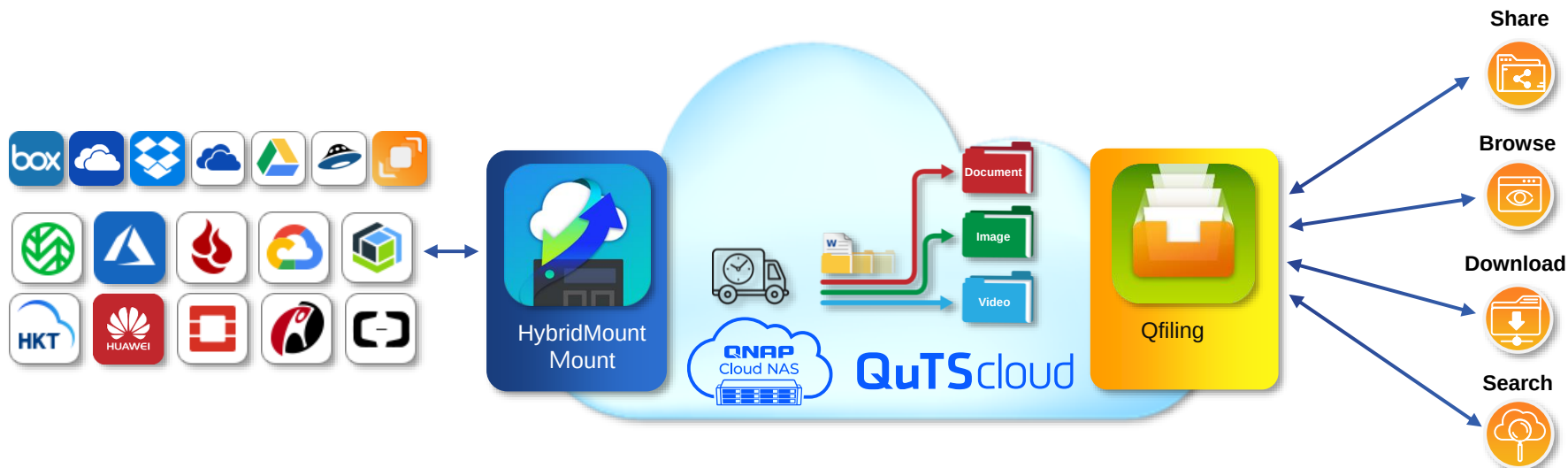
Efficiently organized cloud drive



IT admins find it extremely difficult to organize the humungous number of files which becomes increasingly difficult with time as the data grows



QuTScoud enables IT admins to deploy and allocate work group users. Using Qfiling, the admins can automatically organize and categorize files based on their formats that can save their valuable time. Users can store, access and share files with other users using File Station web interface or Qfile mobile app



Comprehensive search engine for your enterprise files



Large enterprises with numerous files want to perform content-based search to quickly find their files already stored in the cloud.



QuTScLOUD's Qsirch is a GDPR compliant advanced search engine that comes with a full text indexing and searching allowing the user to locate files within seconds.

The screenshot displays the Qsirch search interface. On the left, a search result for a file titled '2017 partners day Track2- File Man...' is shown. The interface includes a 'View file' button and a 'View keywords' button. The search results are organized into sections: 'Most relevant paragraphs:', 'Categorize Import', 'Process Project Starts Planning Executing Closing Process Project Ends 6', and 'supporting 8 kinds of different cloud storages'. The right side of the interface shows the file details, including the path 'Multimedia/Test files/Sample Documents/ppt/2 017 partners day Track2- File Management...' and the title 'PowerPoint Presentation...'. Below the file details, there is a section 'You might like:' with a list of related files.

Quickly view key paragraphs, download or share the file after confirmation!

No need to install other kits; files can be viewed directly!



Qsirch

The background is a vibrant blue gradient with a dense field of small, semi-transparent squares in various shades of blue and purple. On the left side, a glowing, wireframe-like cube is visible, surrounded by a cluster of bright, sparkling particles. A thin, wavy, translucent blue line extends horizontally from the center towards the right, passing behind the text.

Live Demo

QuTScldoud

Live Demo Contents

1

**How to deploy QuTScldoud
on GCP**

2

**How to deploy QuTScldoud on
Contabo**

3

**How to deploy QuTScldoud on
Oracle Cloud**



**Live
Demo**

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Features and
comparison of

QuTScLOUD

Main features and benefits of QuTScloud

1

Storage Expansion

2

**Data Sharing and
Management**

3

Data Efficiency

4

**Data Protection
and Security**

5

Real-time Mobile Notifications

6

**Productivity apps for backup,
management, and multimedia**

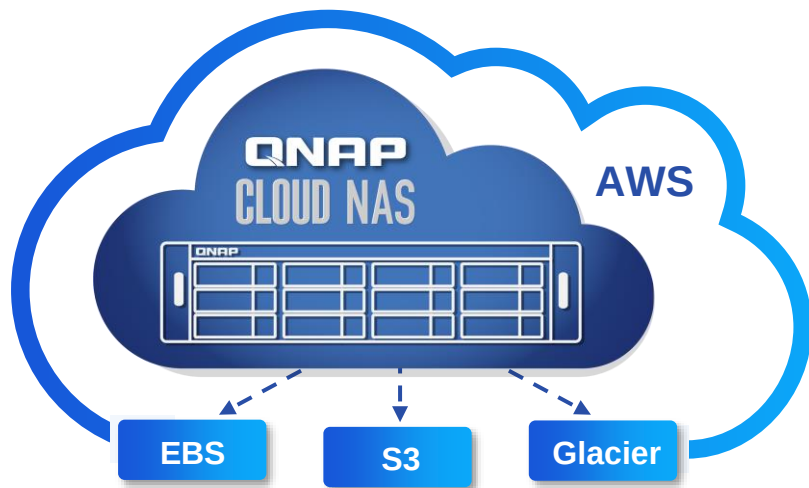
7

Console Management



Storage Expansion with HybridMount for cost saving

Mount external storage to QuTScloud



AWS Local Storage

Unified dashboard to manage all cloud storage

With HybridMount



Cloud File Storage



Cloud Object Storage



EBS vs Object storage cost comparison

Massive SAVINGS on storage cost using HybridMount storage expansion

Storage	EBS Storage Monthly Cost (US\$)			Object Storage Monthly Cost (US\$)
	Provisioned IOPS SSD	General Purpose SSD	Magnetic	S3 Standard
500 GB	62.5	50	25	11.5
1 TB	128	102.4	51.2	23.55
5 TB	640	512	256	117.76
10 TB	1280	1024	512	235.52
50 TB	6400	5120	2560	1177.6
100 TB	12800	10240	5120	2304
500 TB	64000	51200	25600	11315.2
1000 TB	128000	102400	51200	22067.2

54% savings over Magnetic

77% savings over General Purpose SSD

82% savings over Provisioned IOPS SSD

Data sharing and management

Data sharing

Standard protocols

1. SMB/CIFS
2. NFS
3. AFP
4. iSCSI

Instant file sharing

1. Social Media
2. Security – Password, Valid Date
3. SmartShare

File Preview

1. Online Office, Google Doc
2. Multimedia files

Privilege management

Basic

1. NAS local users

Domain Security

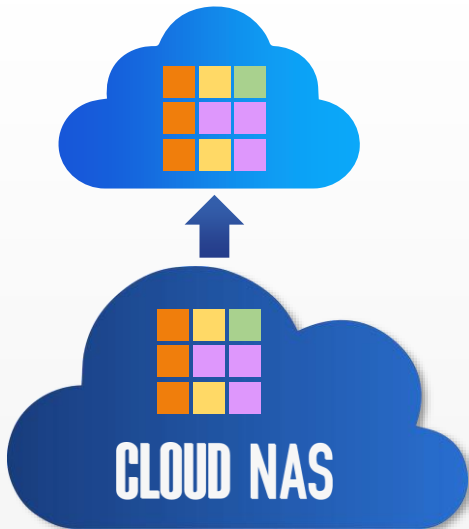
1. Active Directory authentication
2. LDAP authentication



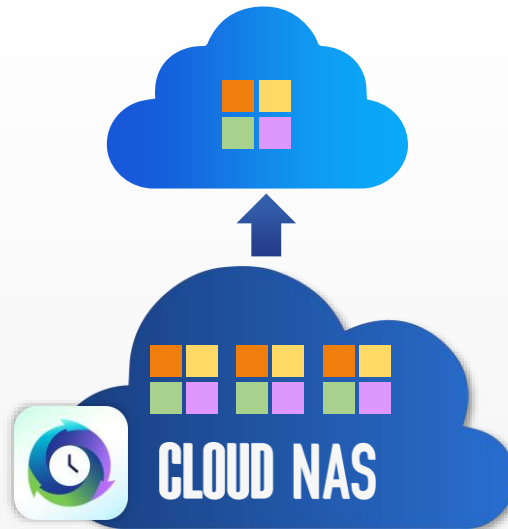
Data efficiency with deduplication

HBS 3 features QuDedup technology that empowers backup tasks with **source-side deduplication** for greater time and storage savings.

Without QuDedup



With QuDedup



Data protection and security

Snapshots and versioning

1. Fully supports all storage configurations at the storage pool level.
2. Uses the mature ext4 file system for “out of volume”

Ransomware cannot overwrite snapshots which are stored out of volume

QNAP VPN Service

1. Use QVPN to build a secure connection between your on-premises devices and your Cloud NAS.
2. Supports versatile VPN protocol and QNAP's(Qbelt).

QNAP's proprietary VPN protocol to decrease the chance of being detected.

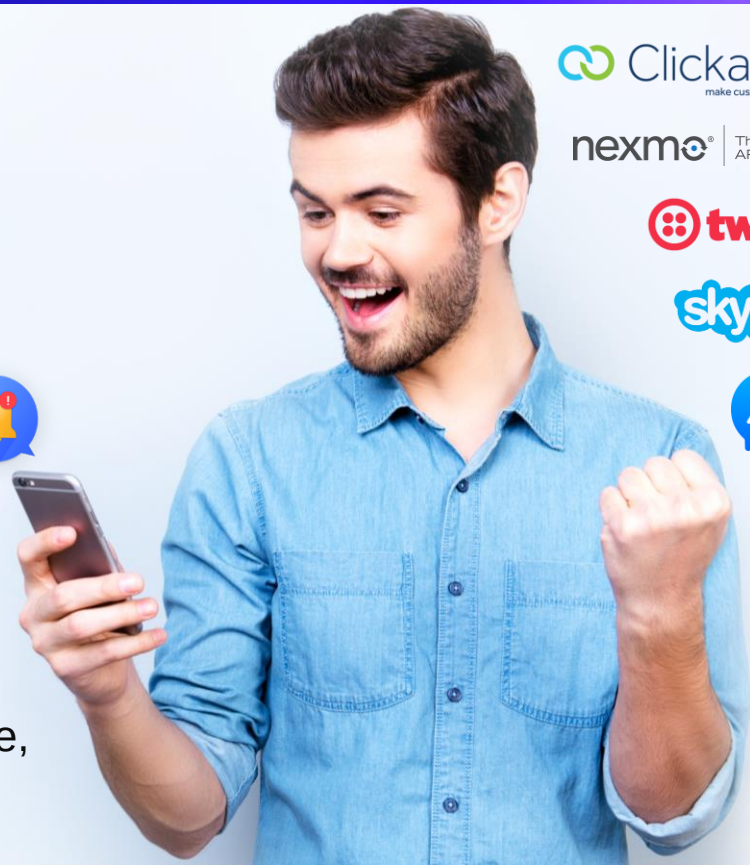


Real-time status notifications at your fingertips



Notification Center

- Consolidates event and alert notification
- Double assurance with notification history
- Flexible to filter important messages
- Multi-language support
- Notifications via email, SMS, instant message, and push notifications.



Productivity apps for backup, management, and multimedia

Backup



HBS 3

Multi-site, multi-cloud backup streamlines 3-2-1 backup strategy



\$9.99/month
\$99.99/year

Boxafe

Backups up Office 365 & Google G Suite data

Management



\$9.99/month
\$99.99/year

Qsirch

A powerful Google like full-text search engine



\$9.99/month
\$99.99/year

Qfiling

Automates your file organization

Multimedia



\$9.99/month
\$99.99/year

QuMagie

AI-powered intelligent photo management

Console Management for Admins

Connect to the NAS console management via SSH or Serial Console

NAS admin can perform basic configuration and maintenance tasks

Default NAS password is MAC address in capitals without colon

Mac Address: 16:00:84:76:35:ef

Default Password: 1600847635EF

Console Management - Main menu

- 1: Show network settings
- 2: System event logs
- 3: Reset to factory default (password required)
- 4: Activate/ deactivate a license
- 5: App management
- 6: Reboot in Rescue mode (w/o configured disk)
- 7: Reboot in Maintenance Mode
- Q: Quit (return to normal shell environment)





Pricing of QuTScLOUD

QuTScloud Pricing

1 Core	2 Cores	4 Cores	6 Cores	8 Cores	12 Cores	16 Cores	24+ Cores
Monthly \$ 8.99	Monthly \$ 11.99	Monthly \$ 19.99	Monthly \$ 29.99	Monthly \$ 39.99	Monthly \$ 69.99	Monthly \$ 99.99	Monthly \$ 129.99
Yearly \$ 89.99	Yearly \$ 119.99	Yearly \$ 199.99	Yearly \$ 299.99	Yearly \$ 399.99	Yearly \$ 699.99	Yearly \$ 999.99	Yearly \$ 1299.99
Recommended for: Total NAS Users: 1-5 Concurrent Connections: Up to 10	Recommended for: Total NAS Users: 6-10 Concurrent Connections: Up to 10-20	Recommended for: Total NAS Users: 10-20 Concurrent Connections: 20-50	Recommended for: Total NAS Users: 20-50 Concurrent Connections: 50-100	Recommended for: Total NAS Users: 50-100 Concurrent Connections: 100-200	Recommended for: Total NAS Users: 100-200 Concurrent Connections: 200-500	Recommended for: Total NAS Users: 200-500 Concurrent Connections: 500-1000	Recommended for: Total NAS Users: 500+ Concurrent Connections: 1000+

QNAP

QuTScloud

Cloud NAS Solution

Is your Best Choice !