

QNAP

QuObjects

S3 compatible object storage solution
supports ARM NAS and software
development S3 tools



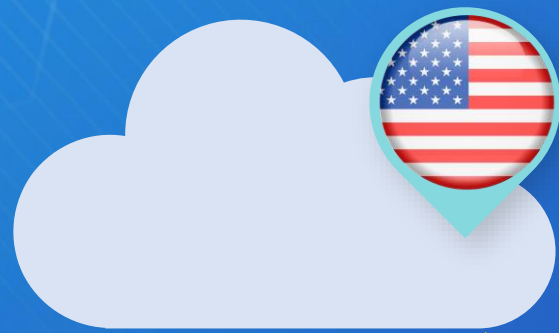
What is QuObjects ?

QuObjects can turn QNAP NAS into the same environment as AWS S3 (S3 Compatible)

It can be used to test object services on AWS S3 and enjoy a low-cost and high-performance test environment.



Object service development is more efficient



HybridMount
Quick on the
cloud



S3 Compatible



Enjoy local connection speed in the office



You can also directly connect to the public cloud to enjoy the convenience



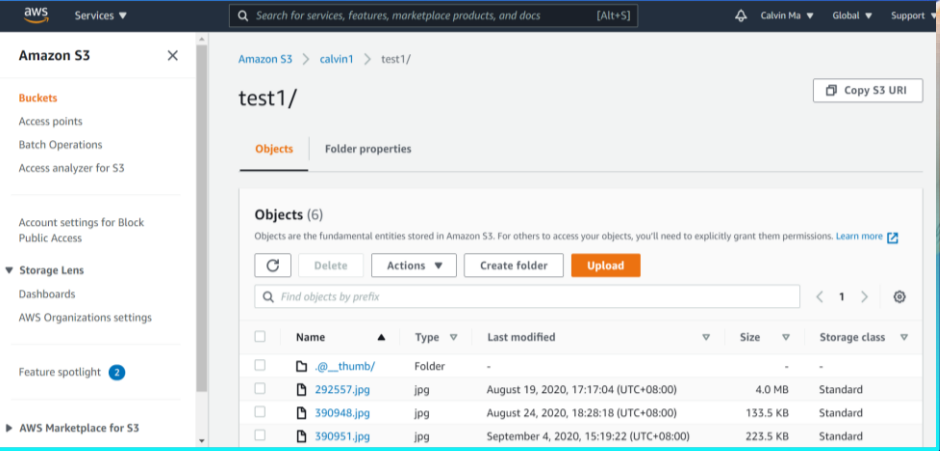
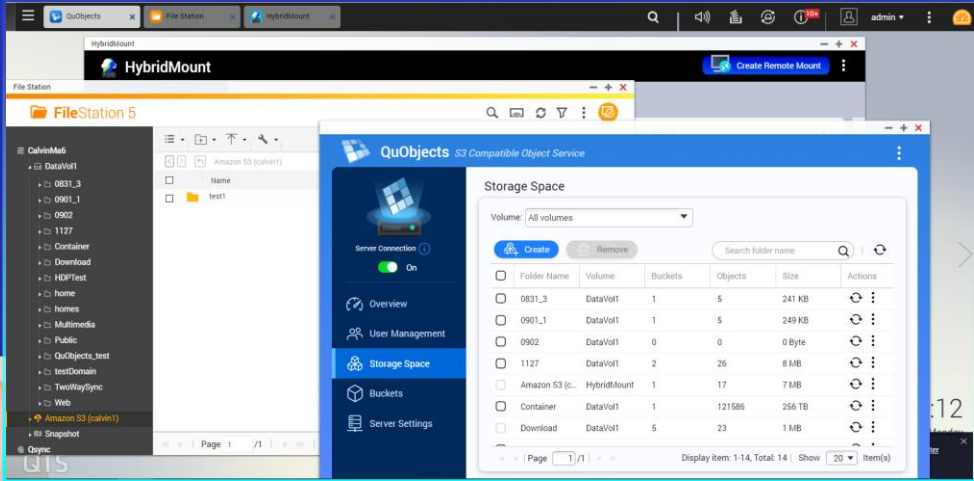
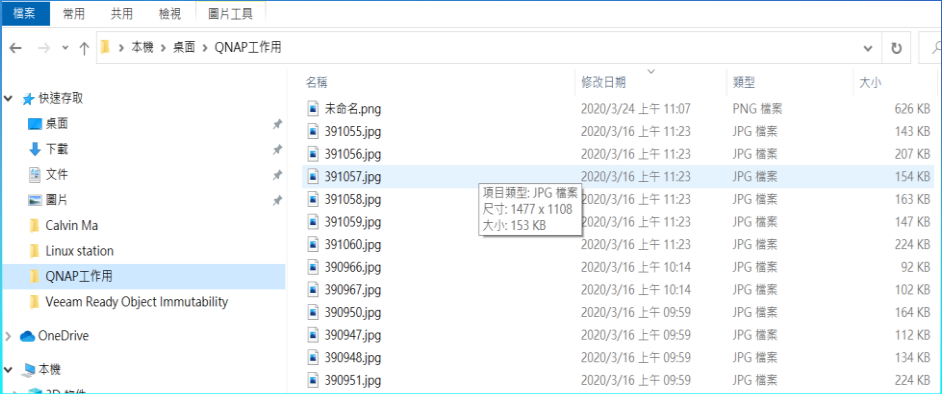
NAS in the office can be backed up quickly



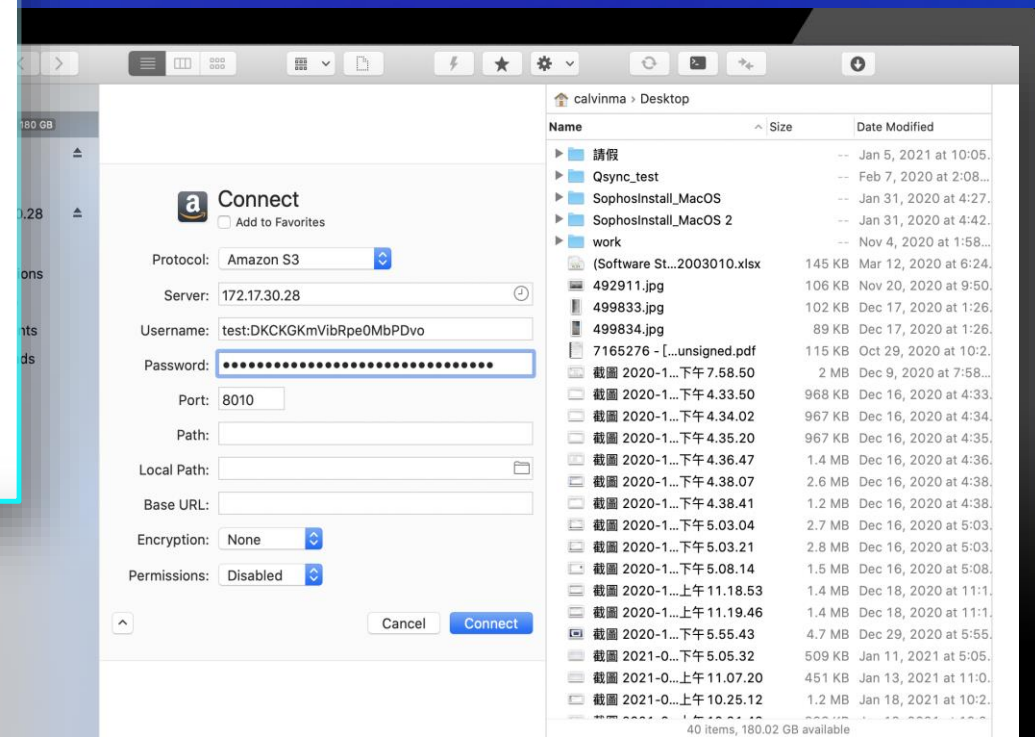
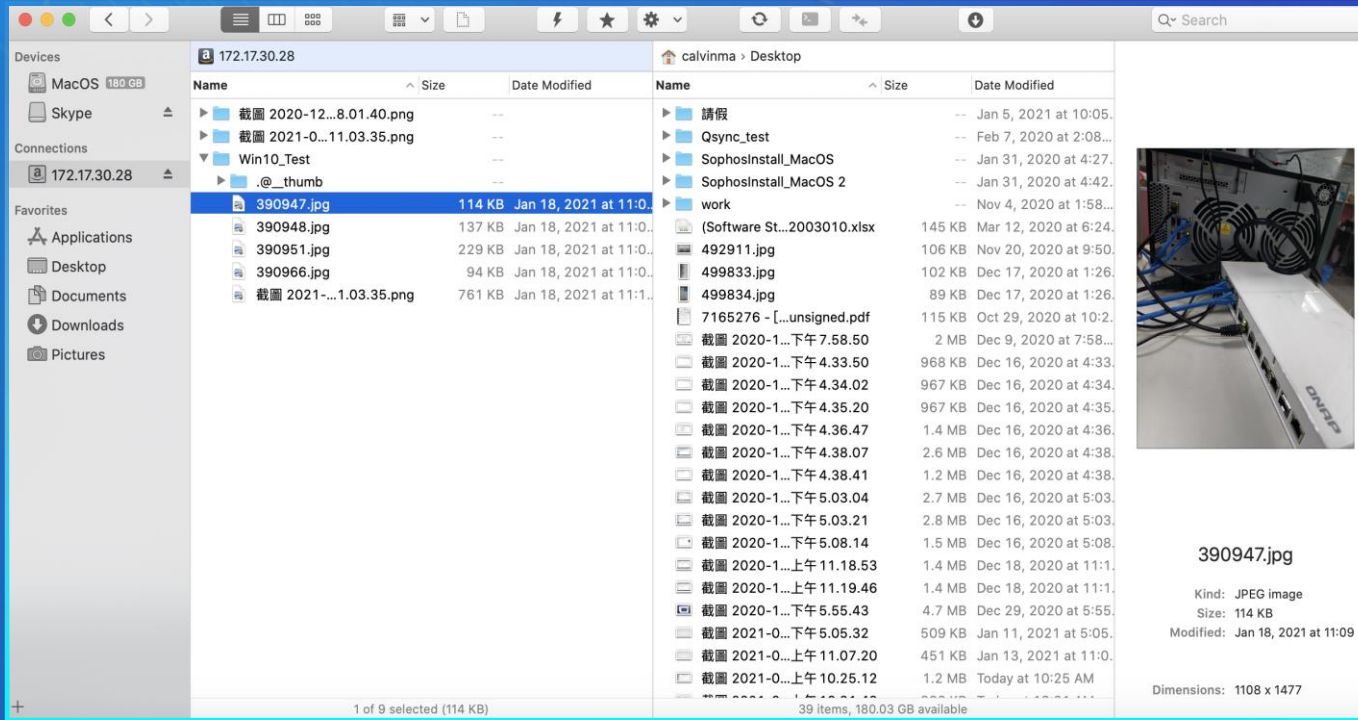
HBS · Backup
object storage



Desktop-NAS-Cloud data transmission window causes confusion.



S3 Tool integrates multiple windows into one .Take Forklift 3 as an example.



S3 to S3 Migration . Take CloudBerry as an example.

The screenshot displays the CloudBerry Explorer for Amazon S3 interface. The main window shows a file explorer view of a local drive (My Computer) with a source path of 'Root > Calvin20210115'. The destination is set to 'Root > bucket'. A dialog box titled 'Add New QNAP Account' is open, prompting the user to specify details for a new QNAP account. The dialog fields are filled with the following information:

- Display name: 20210120
- Service point: 172.17.30.23:8010
- Access key: QuObjects_test:t6RqwXP6Z62TLvFYQq
- Secret key: [Redacted]
- Use SSL:
- Signature version: 2

The dialog also includes a 'Test Connection' button and 'OK' and 'Cancel' buttons at the bottom.

Operation steps-Download QuObjects from QNAP APP Center

Categorized in the backup/synchronization index

The screenshot displays the QNAP App Center interface. On the left is a navigation sidebar with categories like 'My Apps', 'All Apps', 'QTS Essentials', 'Recommended', 'Partners', 'Backup/ Sync', 'Business', 'Content Management', 'Communications', 'Developer Tools', 'Download', 'Entertainment', 'Surveillance', 'Utilities', 'Home Automation', and 'Security'. The main content area shows the 'QuObjects' app details, including its icon, name, installation location (DataVol1), size (108.68 MB), version (V2.1.1254), installation date (2021/01/22), category (Backup/ Sync), and total installs (21,445). A 'Digital Signature' link and an 'Open' button are also visible. Below the details is a preview of the QuObjects dashboard, which includes an 'Overview' section with 'Basic Statistics' (Used Storage: 24.31 GB, Storage Space: 5, Buckets: 12, Files: 53) and 'Request Data' charts for 'Data I/O (Megabytes)' and 'API Counts (Counts)'. The 'API Counts' chart shows activity for POST, PUT, DELETE, GET, HEAD, and OPTION methods. To the right of the preview, there are links for 'Change Log' and 'Download', and a 'Language:' section listing supported languages: Czech, Dansk, Deutsch, English, Español, Français.

App Center

AppCenter

My Apps

QNAP Store

All Apps

QTS Essentials

HybridDesk Station

Recommended

Partners

Multimedia Add-ons

Backup/ Sync

Business

Content Management

Communications

Developer Tools

Download

Entertainment

Surveillance

Utilities

Home Automation

Security

QuObjects

Installed: DataVol1, Size: 108.68 MB

V2.1.1254 (Installation Date 2021/01/22) | Backup/ Sync | Total Installs: 21445

[Digital Signature](#)

Open

QuObjects Object Storage Server

Related APP

Resource: [Change Log](#) | [Download](#)

QNAP QuObjects App enables the QNAP Turbo NAS to support data access using Amazon S3 and OpenStack-compatible object storage protocols, which are now the most popular standards for accessing cloud storage. QuObjects App complements the accessibility and compatibility of your Turbo NAS, allowing you to enjoy the growing number of versatile applications designed for cloud object storage, including backup & archiving, content delivery, and document management.

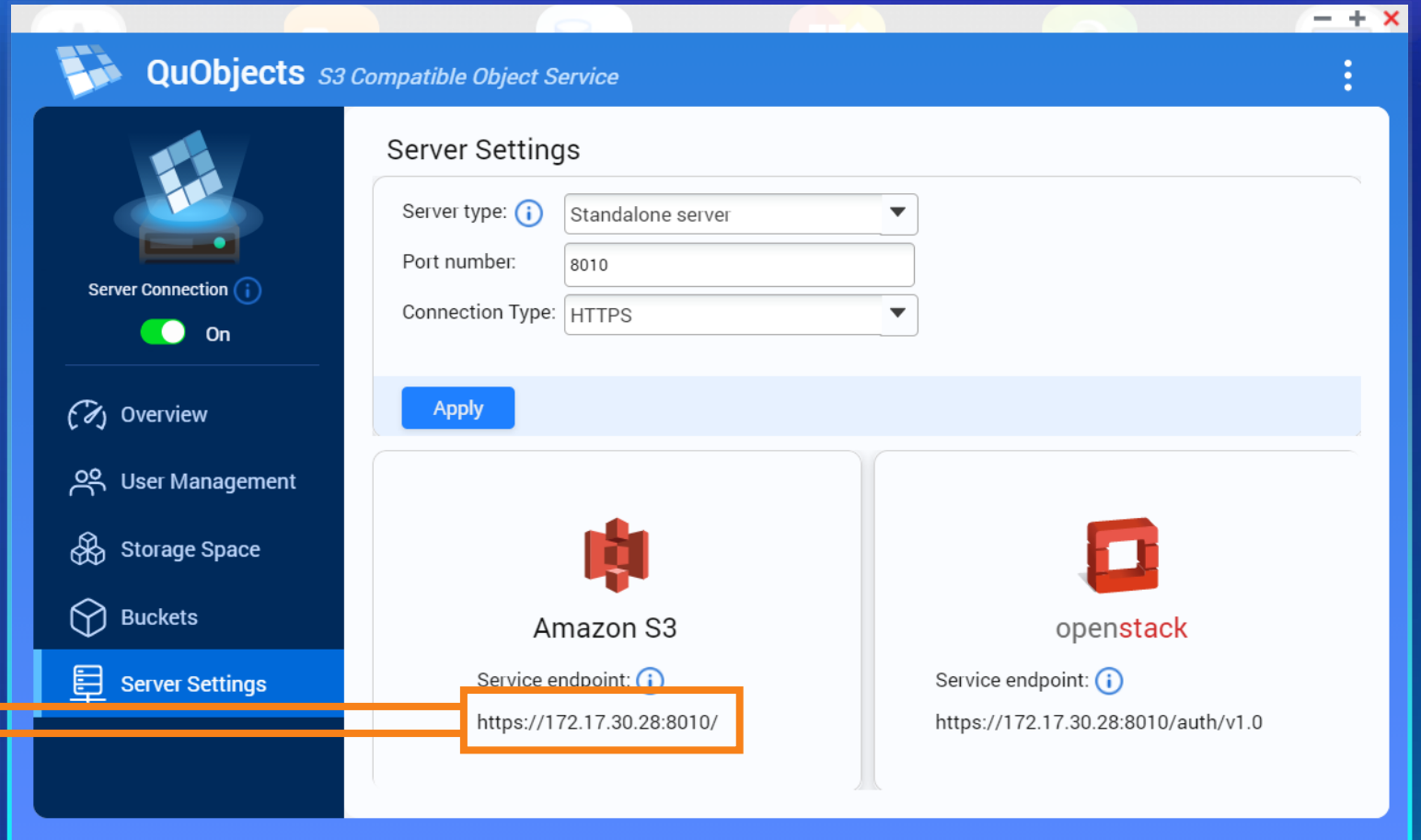
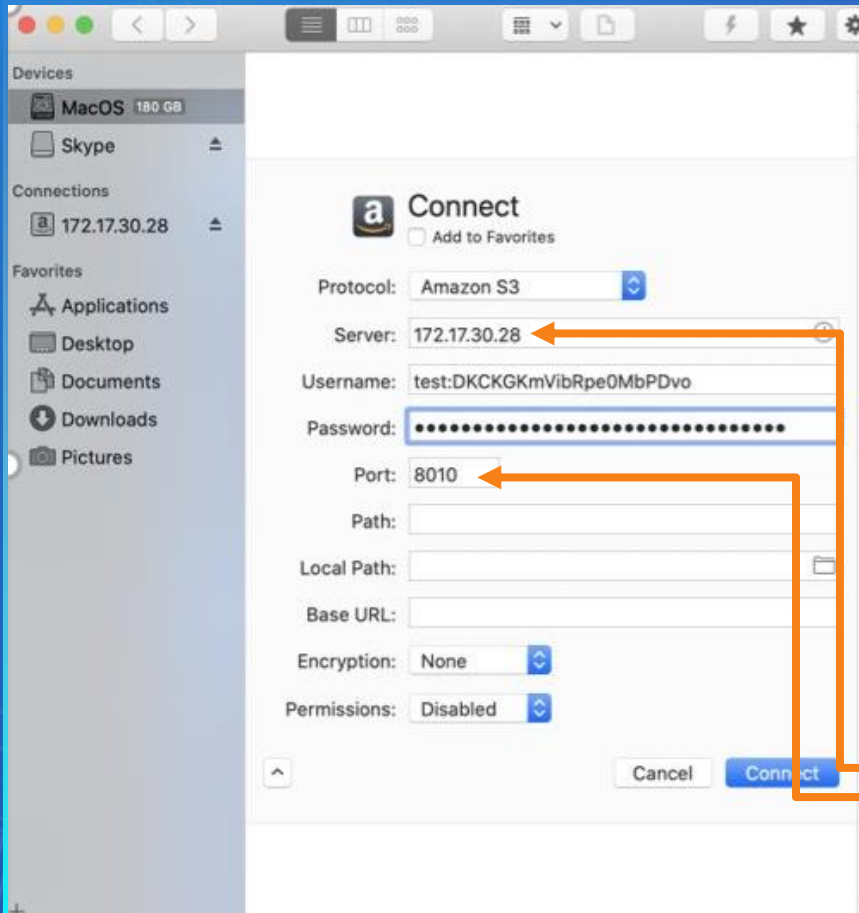
Language:

Czech, Dansk, Deutsch, English, Español, Français,

Connection operation - Only needs two steps to complete the connection

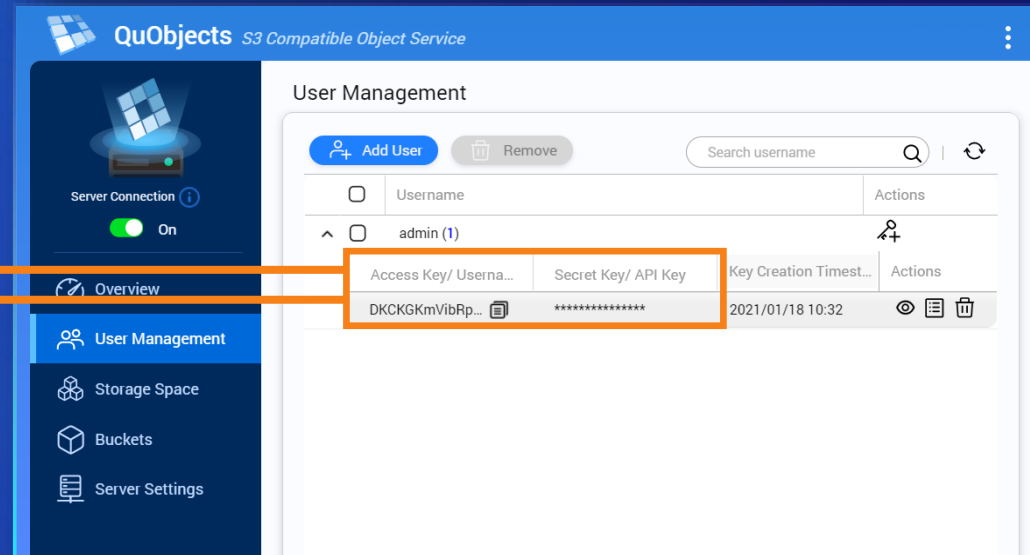
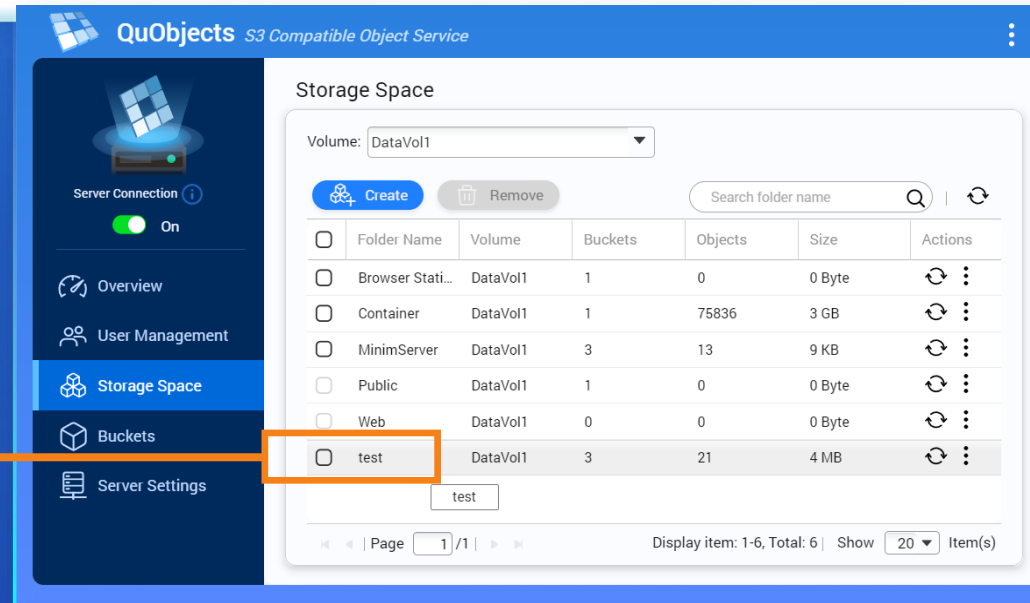
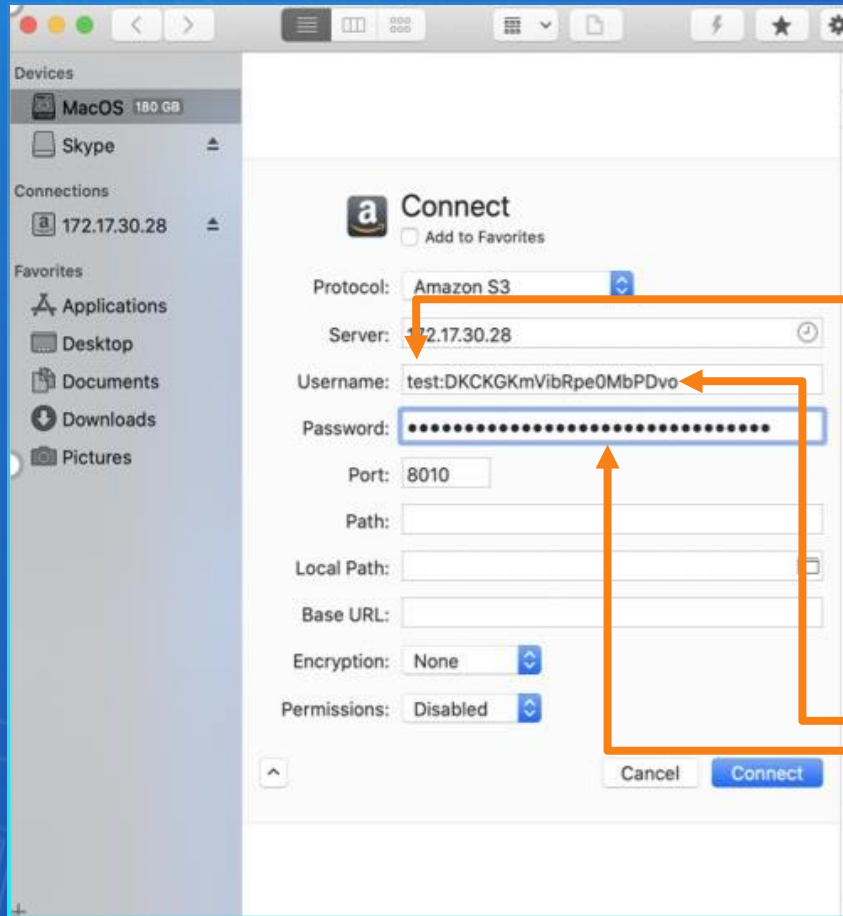
1

Step 1 : Enter the IP address and Port



Connection operation-Only needs two steps to complete the connection

2



Step 2
Enter the storage space shared folder name + account , password

QuObjects support more S3 Tool connection

Tool name	CloudBerry™	Forklift 3™	CyberDuck™	Commander One™
Tool company	MSP360™	BinaryNights™	Iterate™	Eltima™
Support OS	windows/mac	MAC	windows/mac	MAC
QuObjects version	support now!	support now!	Next version update on end of Feb.	Next version update on end of Feb.
Tool company website link	https://www.msp360.com/explorer.aspx	https://binarynights.com/	https://cyberduck.io/	https://mac.eltima.com/file-manager.html

The above-mentioned Tool name and trademark belong to Tool's company, all relevant information can refer to the official website link of the source Tool .

S3 Tool connect QuObjects



DEMO

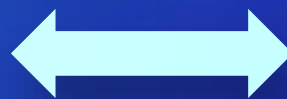


Cosbench Performance test - S3 good environment for object service testing!

Read/Write Rampup Time	Runtime	Selector	Driver	Worker	Container	Object	Object Size	Read	Write
30	300	sequential	2	16	1	1000	16MB	2.5 GB/S	935.91 MB/S
30	300	sequential	2	16	1	1000	32MB	2.75 GB/S	1.12 GB/S
30	300	sequential	2	16	1	1000	64MB	2.88 GB/S	1.19 GB/S
30	300	sequential	2	16	1	1000	4K	1134.35 op/s	601.36 op/s

Test environment: CosBench version: 0.4.2.c4 QuObjects version: 2.1.1254
Server:1885U: 32G ram, raid0 (SSD 500G*8), (office lan/ 25G lan)

Client : 977XU,40G ram, harddisk 1T,(office lan/ 25G lan)



QuObjects can support QNAP ARM's model now

QuObject can support ARM 64-bit NAS (TS-x32 series and TS-1635AX)



TS-1232PXU-RP

Quad-core 1.7GHz rackmount NAS with 10GbE SFP+ and 2.5GbE ports and redundant power supply for SMB IT environments



TS-1635AX

Versatile, high-performance 16-bay desktop NAS, powered by the Marvell ARMADA 8040 processor

Customer feedback , We heard !

1. Support Standalone server https mode 
2. Support ARM-Based series 
3. Support Virtual hosted style access - Next version update on end of Feb. 

The standalone server mode only exposes a HTTP interface. Unfortunately all of the S3 tools I have available require a HTTPS connection with no option to override. This makes the standalone server option pointless at the moment. I have not explored the Web Server option yet, as this will require me to make changes to my hosts file to ensure that traffic goes to my NAS correctly. From UK user

I'm really concerned about data privacy. I need to store client backup data using QuObjects, but I can only create an HTTP endpoint and not an HTTPS endpoint. I have a publicly signed, trusted certificate but the endpoint is only using HTTP and not HTTPS. I need to get this resolved before I use it in production. From USA user

希望可以支援ARM機種
from Taiwan user



the mazing feature is the speed of data upload and browsing as well . From Palestine user

QNAP



QuObjects

The best S3 compatible object
storage solution