QNAP

Hyper Data Protector 1.0

The central host-based VMware/Microsoft Hyper-V active backup solution

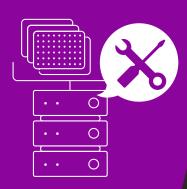


Virtual machines are commonly used in corporations

Virtual machine backup is the primary task for corporations

Virtual Machine malfunction

When virtual machine failures occur, it must be restored in a short period of time to maintain business operations



Ransomware

Multi-version backup is the key when ransomware occurs



Data Loss

Data loss may cost the reputation of company. The worst-case scenario is business disruption which is not rare



The IT pain points of product selection

Complex pricing

Variety of products on the market and their charging are different between vendors



Expensive license fee

Corporation need to pay for the license fee every year. The management may not like the idea.



Spend a lot of time and human resource

Because of the difference between hardware and software, it may cost a lot of time and efforts to troubleshoot the issue.



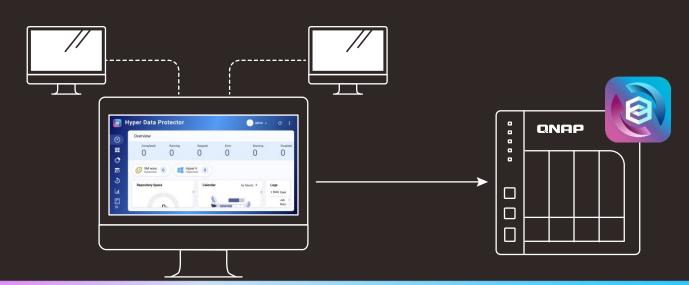
QNAP Hyper Data Protector – All-in-one advantages



- Unlimited VM backups and license-free for achieve money, time and storage savings
- All-in-one solution to avoid time spent on finding problems between hardware and software
- QNAP NAS RAID hard disk data protection mechanism
- QNAP NAS 3-2-1 backup mechanism





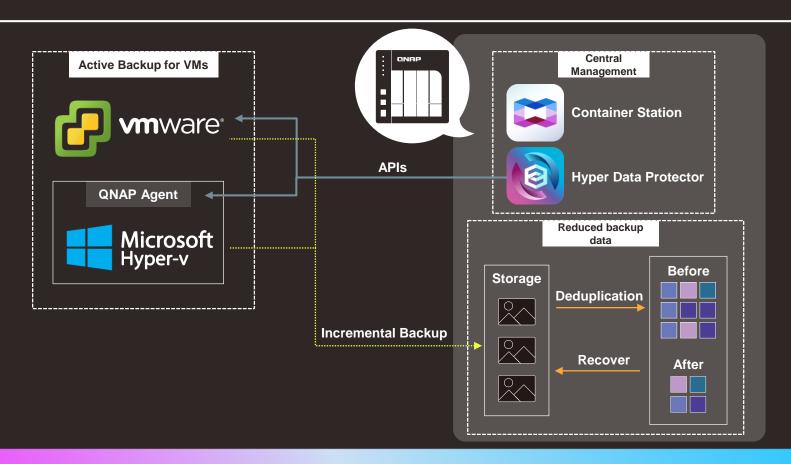




Meet QNAP Hyper Data Protector

Providing a money-, time- and storage-saving all-in-one back up solution

QNAP All-in-one active backup solution for virtual machines



Hyper Data Protector Highlights

High speed active backup

Instant VM recovery

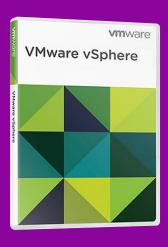
Continuous monitoring



Supported source platforms

VMware vSphere

6.0, 6.5, 6.7



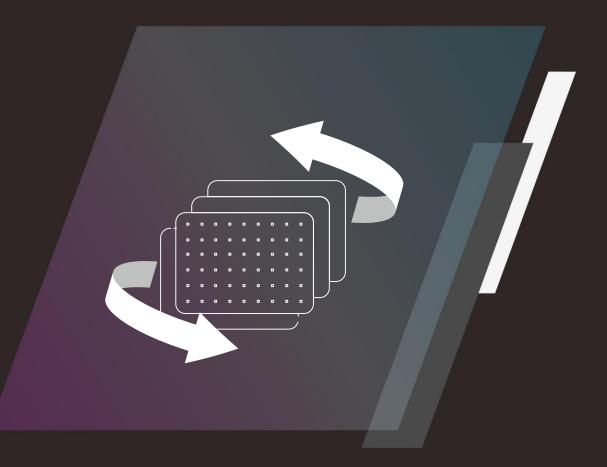
Microsoft Hyper-V

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



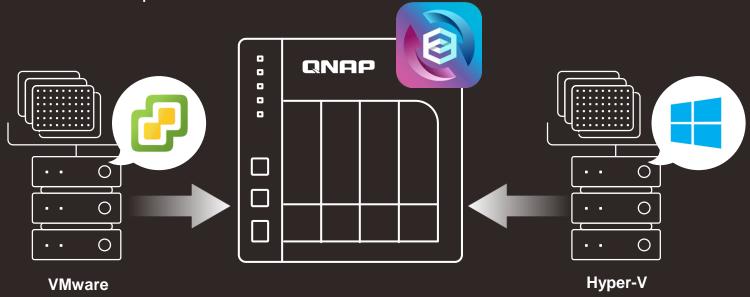
Note: Windows 10 Hyper-V not supported

High speed active backup



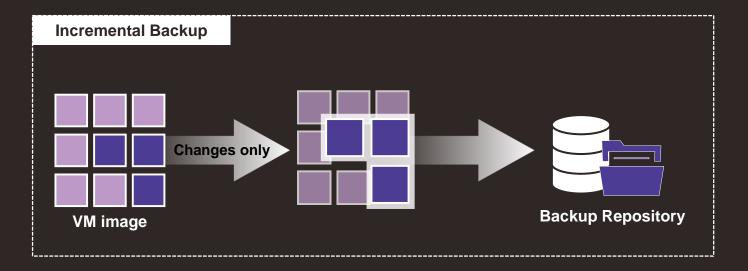
VMware / Hyper-V agentless backup

- Pull data from VM Server
- Central Management
- No agent software
- Offline backup



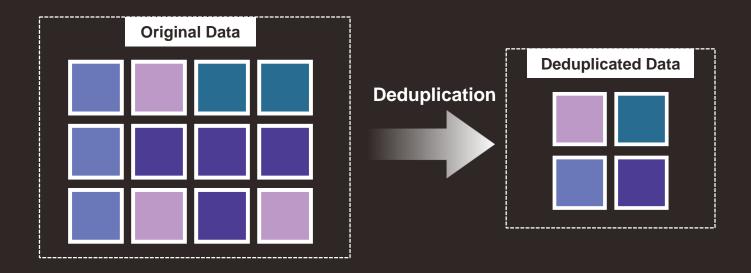
Changed data block technique to achieve incremental backup

- Incremental backup
 - VMware CBT (Changed Block Tracking)
 - Hyper-V RCT (Resilient Change Tracking)



Offline Deduplication

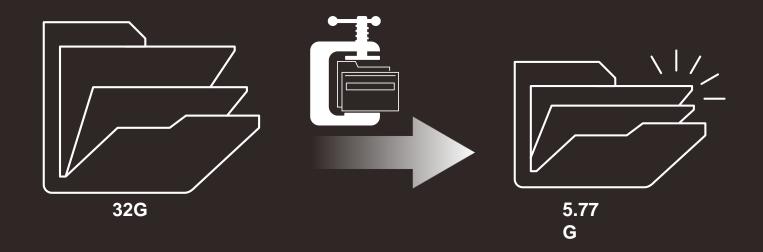
- Reduce the storage of multi-version back up
- Up to 90% reduction in duplicated data when clone VMs.



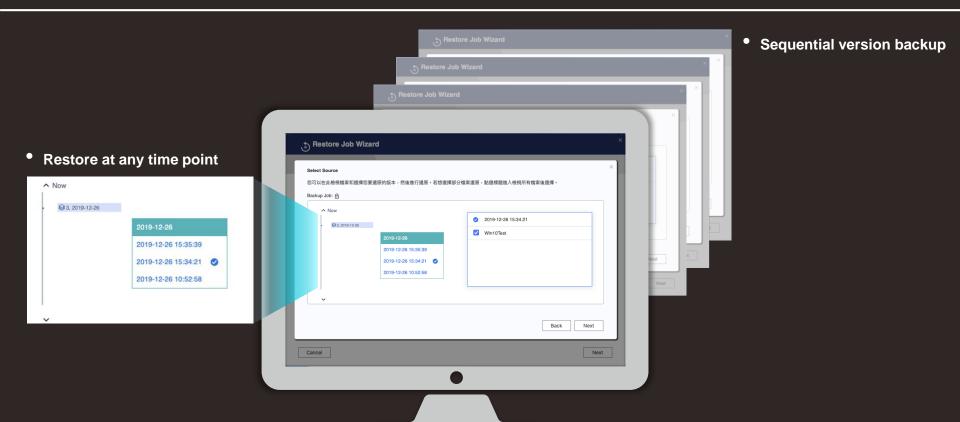
Data compression and deduplication technology promoted by well-known manufacturers

- Compression ratio in actual testing :
 - QNAP HDP and well-known manufacturers have achieved compression ratio more than 80%

For example, 32G VM becomes 5.77G after compression that greatly save backup storage



Up to 1,000 multi-version backups



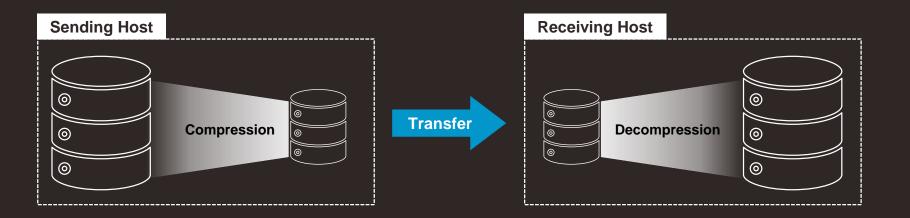
AES-256 encryption technology in data transmission

 AES (Advanced Encryption Standard) is a specification for the encryption of electronic data established by the U.S. National Institute of Standards and Technology (NIST)



Reduce bandwidth usage through transmission compression

- Data compression before transmission
- Automatically decompress at the destination
- Save the bandwidth and the capacity of transmission



High Speed Network with QNAP NAS

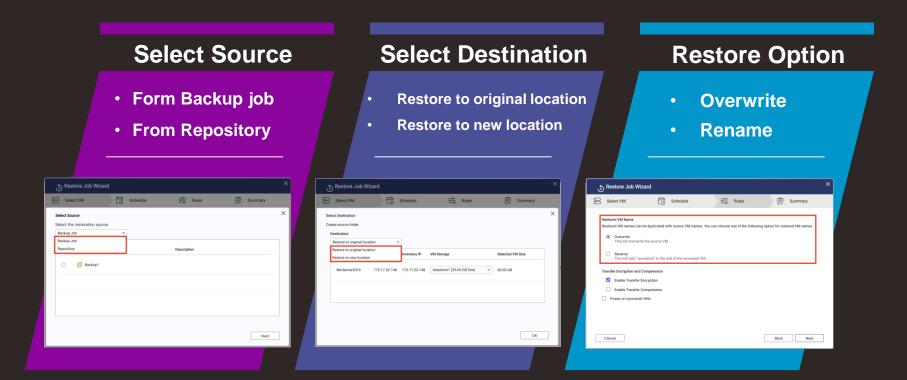
- Ready-to-use infrastructure after purchasing
- 2.5G/5G/10G
- QNAP 10G Switch



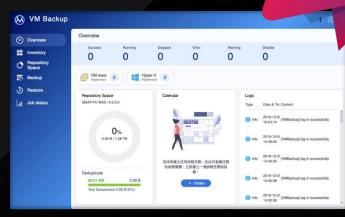
Instant VM recovery



Restore virtual machine back up





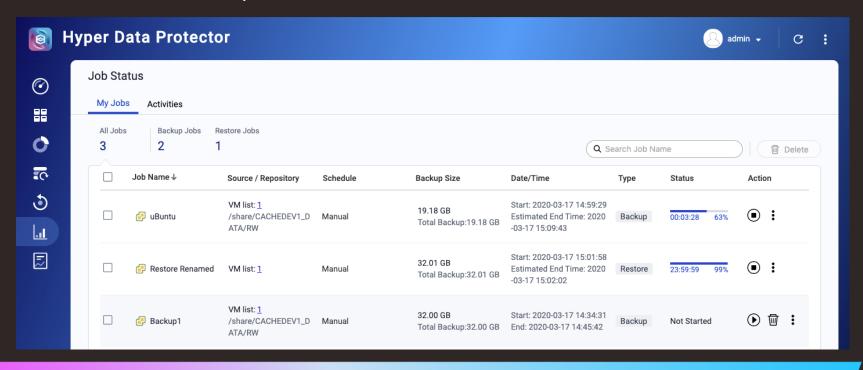


Continuous monitoring



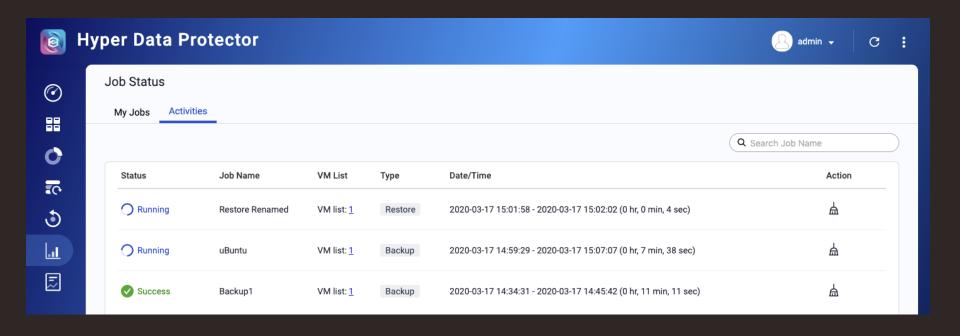
Task overview

- Overview tasks in single-page
- Quick and intuitive operation



Job Status monitoring

Full view of backup task history

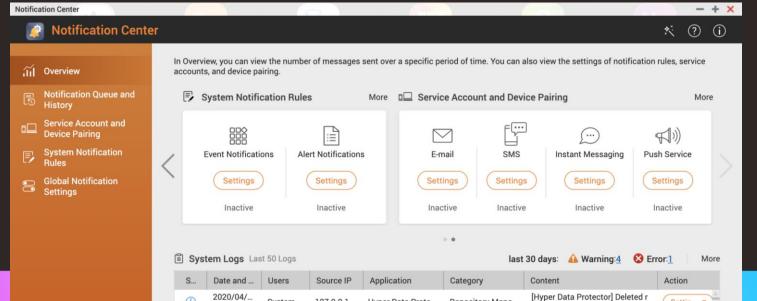


Activity Notification

Notification Center

 Email
 SMS
 Instant Messaging
 Push Service



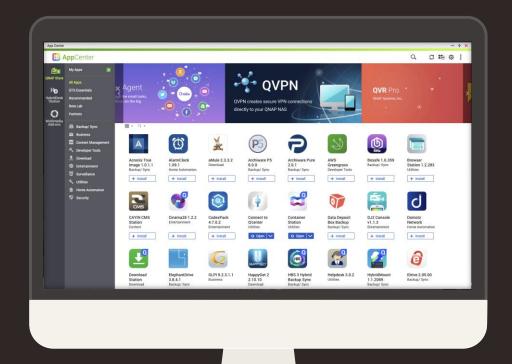


Installation and operation



Download Hyper Data Protection in App Center



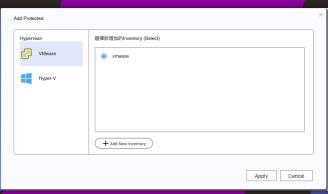


3-step setup

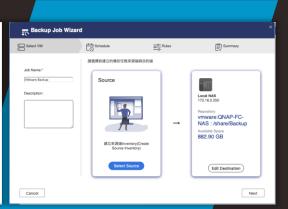
Create VM backup inventory

Create VM backup repository

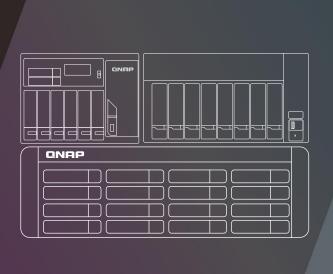
Create VM backup job







Recommended models



Recommended model

HDP only supports QNAP NAS models with x86-based Intel or AMD processors

SMB Entry

TS-673

- 6 x 3.5"/2.5" SATA 6Gb/s HDDs/SSDs
- AMD R-Series RX-421BD quad-core 2.1 GHz processor, burst up to 3.4 GHz
- Max 64GB RAM



SMB Mid-end

TVS-882

- 6 x 3.5-inch + 2 x 2.5inch SATA 6Gb/s, 3Gb/s
- Intel[®] Core[™] i5-7500 quad-core 3.4 GHz processor, Max turbo to 3.8 GHz
- Max 64GB RAM



SMB High-end

TS-1683XU-RP

- 16 x 3.5-inch SATA 6Gb/s, 3Gb/s
- Intel® Xeon® E-2124 quad-core 3.3 GHz processor (burst up to 4.3 GHz)
- Max 64GB RAM



Enterprise

TDS-16489U R2

- 20 bay, Front 16 x 3.5-inch, Rear 4 x 2.5-inch
- Intel® Xeon® E5-2630 v4
- 10-core 2.2 GHz
- Max 1TB RAM



Beta Program

Duration: From 2020/4/1 18:00 (GMT +8)
To 2020/4/30 23:59(GMT +8)

Landing Page: http://www.qnap.com/go/solution/hyper-data-protector/



HDP Beta-Download: https://download.gnap.com/QPKG/HyperDataProtector_1.0.2_0401_x86_64.zip



QNAP will select a participant for a TS-332X NAS!

How to report bugs/issues in the Hyper Data Protector Beta Program?

Go to Hyper Data Protector and click : > Click(Download)
Debug report

Open QNAP Helpdesk in QTS(Login by QID) > Help Request

Subject with [HDP] in content > Describe some categories and upload the Debug Report

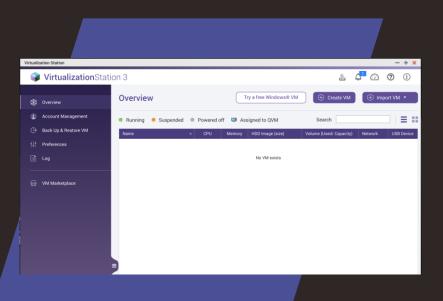


Feature roadmap

Window server and PC backup/restore







Summary

- QNAP NAS All-in-one central management
- High speed active backup
- Save your money, time and storage

QNAP NAS is your best choice for VM back up





Hyper Data Protector 1.0

is your best choice!

