

Active Backup for Business

Overview

Features

Integrated backup solution for Windows physical server, PC, rsync/SMB file server, and VMware vSphere/Microsoft Hyper-V virtual machine

Centralized management interface to monitor the status of all backup tasks, storage consumption, and historical transmission

Various restoration methods including entire device restoration, instant restore, and granular file recovery

Maximize backup and storage efficiency by adopting Changed Block Tracking (CBT), Resilient Change Tracking (RCT), and global deduplication

Minimize service downtime by integrating the backup task with [Synology Virtual Machine Manager](#) to replicate a production environment on Synology NAS

Application Components

Admin Console (Active Backup for Business)

Recovery Portal (Active Backup for Business Portal)

Affiliated Desktop Utility (Synology Active Backup for Business Agent, Synology Active Backup for Business Recovery Media Creator, Synology Active Backup for Business Recovery Wizard)

Admin Console

Features

Centralized management interface to monitor the status of all backup tasks, storage consumption, and historical transmission

Flexible schedule and retention policies to customize the backup policy

Detailed logs and reports to keep track of backup statuses and troubleshoot problems

Specifications

2.0.4 and previous versions are supported from DSM 6.1.7

2.1.0 and above versions are supported from DSM 6.2

Maximum concurrent backup device: 10

Users with DSM admin permission can use Active Backup for Business

Windows Physical Server Backup

Supports platforms: Windows 10 Creators Update (all editions), Windows 10 (all editions), Windows 8.1 (all editions), Windows 7 SP1 (all editions), Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019

Supports NTFS file system

Backup modes: Entire device, system volume, and customized volume backup

Restoration methods: Entire device restore, file/folder-level restore, volume-based restore, and instant restore to VMware vSphere, Microsoft Hyper-V, or Synology Virtual Machine Manager

Image-based backup to back up the entire device, including data and system configurations

Agent-based backup which performs backup and restoration such as getting the changed blocks between snapshots (Download the agent on [download center](#))

Leverages Microsoft VSS-based Changed Block Tracking to perform incremental backup

Backup window for users to customize allowed and denied backup time

Supports inserting the arguments (NAS IP address, username, password, and Active Backup for Business icon creation) to the .msi installer for mass deployment of Synology Active Backup for Business Agent

The supported operating systems when performing instant restore to Synology Virtual Machine Manager are listed in [this article](#)

Windows PC Backup

Supports platforms: Windows 10 Creators Update (all editions), Windows 10 (all editions), Windows 8.1 (all editions), and Windows 7 SP1 (all editions)

Supports NTFS file system

Backup modes: Entire device, system volume, and customized volume backup

Restoration methods: Entire device restore, file/folder-level restore, and volume-based restore

blocks between snapshots (Download the agent on [download center](#))

Leverages Microsoft VSS-based Changed Block Tracking to perform incremental backup

Event-triggered backup including device screen locked, user signing out, and starting up

Backup window for users to customize allowed and denied backup time

Supports inserting the argument (NAS IP address, username, password, and Active Backup for Business icon creation) to the .msi installer for mass deployment of Synology Active Backup for Business Agent

Virtual Machine Backup

Supports VMware vSphere platforms: VMware vSphere 5.0, 5.1, 5.5, 6.0, 6.5 and 6.7

Supports VMware vSphere versions: VMware free ESXi, VMware vSphere Essentials, VMware vSphere Essentials Plus, VMware vSphere Standard, VMware vSphere Advanced, VMware vSphere Enterprise, and VMware vSphere Enterprise Plus

Supports all types and versions of VMware virtual hardware, including 62TB VMDK

Supports Microsoft Hyper-V hypervisors: Hyper-V 2016 and 2019

Supports Hyper-V Generation 1 and 2 virtual machines, including 64 TB VHDX disks and virtual hardware versions from 5.0 to 9.0

For backing up Microsoft Hyper-V, a host's system volume with at least 512MB of free storage space is required to install a data mover

Image-based backup to back up the entire device, including data and system configurations
Agentless backup

Leverages VMware Changed Block Tracking and Hyper-V Resilient Change Tracking to perform incremental backup

Backup window for users to customize allowed and denied backup time

Restoration methods: Entire device restore, guest OS file/folder-level restore, and instant restore to VMware vSphere, Microsoft Hyper-V, or Synology Virtual Machine Manager

For guest OS file level restoration, the supported Windows file systems are NTFS and FAT32 and the supported Linux file systems are NTFS, FAT32, ext3, and ext4

Application-aware backup for VMware vSphere or Microsoft Hyper-V virtual machines running on Microsoft Windows 2003 SP1 or later (excluding Nano Server due to the absence of the VSS framework)

Supports backing up operating systems and applications supported by VMware vSphere and Microsoft Hyper-V

The supported operating systems when performing instant restore to Synology Virtual Machine Manager are listed in [this article](#)

SMB protocol file server backup

Backup modes: Multi-versioned, mirroring, and incremental backup

Restoration method: File/folder-level restore

Supports backing up Windows ACL

Supports Windows VSS to ensure backup data consistency

Performs backup tasks concurrently

rsync protocol file server backup

Supports rsync 3.0 or above versions

Agentless backup

Backup modes: Multi-versioned, mirroring, and incremental backup

Restoration method: File/folder-level restore

Supports backing up Linux POSIX ACL

Supports rsync module mode, rsync shell mode over SSH, and rsync module mode over SSH

Supports authentication with a password or an SSH key

Supports block-level transfer, encryption, and bandwidth control

Performs backup tasks concurrently

Management

Centralized management interface to monitor the current backup status of Windows devices, file servers and virtual machines, storage consumption, and historical transmission

Generates reports on a customized schedule to monitor overall backup status

Detailed logs and task history for the status of device backup, canceled tasks, backup failure, restoration migration, and device restoration

Recommended models

To choose which Synology NAS best suits your backup scenarios, you can refer to [this article](#)

Limitations

Windows PC/Physical Server Limitations

Only external hard drives are supported to be backed up. Other external devices, such as floppy drives, thumb drives, and flash card readers are not supported

For backing up dynamic disks, only simple volumes are supported, while other types of volumes are not

Backing up physical servers/PCs with 4Kn disks is not supported

Restoring Windows storage space is not supported

Some of the features of VMware free ESXi, such as setting up pre/post script and guest OS file, are not supported

Encrypted virtual machines, which are available in VMware vSphere 6.5, are not supported

Fault tolerant machines, which are available in VMware vSphere 6.0, are not supported

Since VMware does not support taking snapshots of the following types of disks, the following types of disks will be skipped automatically when processing: Raw Device Mapping (RDM) disks in physical mode, independent disks, disks connected via in-guest iSCSI initiator, and disks engaged in SCSI bus sharing

Guest OS file level restore is not supported on virtual machines with UFS file system

Microsoft Hyper-V

Only standalone Hyper-V is supported for now. Virtual machines on Hyper-V failover clusters and Microsoft's System Center Virtual Machine Manager (SCVMM) can only be backed up as standalone Hyper-V virtual machines

Pass-through virtual disks and guest disks connected via in-guest FC or iSCSI are not supported and will be skipped automatically when processing

Recovery Portal

Features

Individual file/folder restoration to save the restoration time

Keyword searching for users to find the desired data easily

Specifications

User permission

Users with DSM admin permission can restore or download all users' backup data

Users without DSM admin permission can restore or download their own backup data, except for their data in file server backup tasks

Data restoration

Batch restoration of file/folder under the same directory

Data download

- Batch downloading file/folder under the same directory

- File/folder downloaded in batch will be compressed to a single file

- Backup data of Windows physical server, file server, and virtual machine belonging to the partially successful backup versions can be downloaded

Limitations

Data restoration

- The metadata such as modified time, created time, and ACL permission will not be restored when restoring the file/folder of Windows PC, physical server, and virtual machine

Affiliated Desktop Utility

Features

- Synology Active Backup for Business Agent is required to be installed on the target device for Windows PC and physical server to perform backup and restoration

- Synology Active Backup for Business Recovery Media Creator can facilitate the creation of the recovery media automatically for volume-based/bare-metal restoration for Windows PC and physical server

- Synology Active Backup for Business Recovery Wizard allows users to perform volume-based/bare-metal restoration for Windows PC and physical server with the recovery media created manually by the user

Specifications

Synology Active Backup for Business Agent

- Supports platforms: Windows 10 Creators Update (all editions), Windows 10 (all editions), Windows 8.1 (all editions), Windows 7 SP1 (all editions), Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019

- Supports x86-64 processor Windows models

- Users with DSM admin permission can log out the service and change the backup type

Windows 8.1 (all editions), Windows 7 SP1 (all editions), Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019

Supports x86-64 processor Windows models

Supports media types: USB/ISO image

Requires at least 2.5 GB local system volume storage capacity for temporary files

Requires at least 1 GB capacity for the USB drive and the volume to store the ISO image

Synology Active Backup for Business Recovery Wizard

Supports platforms: Windows 10 Creators Update (all editions), Windows 10 (all editions), Windows 8.1 (all editions), Windows 7 SP1 (all editions), Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019

Supports x86-64 processor Windows models

Supports media types: USB/ISO image



NAS Selector



RAID Calculator



NVR Selector



Knowledge Base



Company

Sales

Compatibility

Support

Resources
