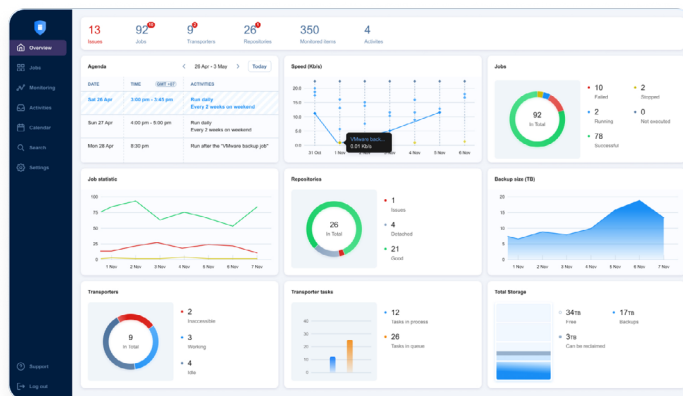


# Comprehensive Backup and Recovery for Hyper-V VMs

NAKIVO Backup & Replication offers a range of built-in backup and restore functionalities tailored for Hyper-V virtual environments to ensure all-around VM protection and swift recovery in the event of data loss or cybersecurity incidents.



## SINGLE PANE OF GLASS

for backup, instant restore, disaster recovery, and ransomware protection.

## DEPLOY ANYWHERE

on NAS, Windows, Linux, as a pre-configured VMware/Nutanix VA or AMI.

## STORE ANYWHERE

on local folders, public clouds, S3-compatible storage, NAS, and tape.

## AFFORDABLE PRICING

starting at **\$2.50** per VM/month (subscription) or **\$229** per CPU socket (perpetual).

## EASY-TO-USE

a user-friendly web interface to get first job started in 5 minutes.

## FAST AND EFFICIENT VM BACKUP

NAKIVO Backup & Replication enables you to reliably back up Hyper-V VMs with dozens of features that give you complete control over what and how backups are done.

**Incremental backup:** Create image-based incremental VM backups using Microsoft's Resilient Change Tracking (RCT) technology to copy only the changed data blocks.

**Image-based, agentless backup:** Create a point-in-time VM copy, including OS, system state and application configurations, without the need for additional OS agents.

**Application-aware backups:** Ensure data consistency for applications and databases (Microsoft SQL Server, Exchange Online Server, Active Directory) with app-aware backup processing.

**Direct backup to cloud:** Send Hyper-V backups directly to Amazon S3, Wasabi, Azure Blob Storage, Backblaze B2 and other S3-compatible storage targets.

**Backup copy:** Create backup copies and send them offsite or to other supported backup targets.

**Backup copy to tape:** Send Hyper-V VM backup copies to physical tape libraries and AWS VTL for secure and cost-effective archiving.

**Flexible retention:** Retain up to 10,000 recovery points per backup job and rotate them daily, weekly, monthly or yearly for point-in-time recovery should data loss or corruption occur.

**Instant backup verification:** Verify the recoverability of VM backups with reports and screenshots of test-recovered machines.

**Federated Repository:** Aggregate various "member" repositories into one scalable repository to ensure backups are automatically shifted to available repositories in case of storage failures or capacity issues.

**Deduplication appliance integration:** Back up Hyper-V VMs directly to deduplication appliances such as HPE StoreOnce, Dell EMC Data Domain, and NEC HYDRastor with support for native protocols.

## BENEFITS

**2X**

faster backups  
with native change  
tracking

**49%**

lower TCO than other  
vendors for the same  
or better functionality

**4.8 STARS**

average rating  
for saving time  
and money

**5 MIN**

to fully deploy  
and configure  
the solution

**10,000**

recovery points  
per backup to meet  
short RPOs.

## GARTNER PEER INSIGHTS

NAKIVO Earns Recognition in Gartner® Peer Insights™ Voice of the Customer Report  
for Enterprise Backup and Recovery Solutions

**4.8**

Overall rating

**98%\***

Willingness to recommend

## FULL AND GRANULAR RECOVERY

NAKIVO Backup & Replication offers comprehensive recovery capabilities for Hyper-V environments, designed to ensure immediate access to critical applications and data when needed.

**Instant VM recovery:** Boot Hyper-V VMs directly from backups without performing a full recovery first; migrate booted VMs to production if needed.

**Full VM recovery:** Recover entire VMs from backups to the same or custom location in case a VM is damaged or deleted.

**Instant file recovery:** Instantly browse, search, and recover individual files, and folders from backups.

**Instant object recovery:** Recover Microsoft Exchange Server, Active Directory and SQL Server objects to the original or custom location.

**Universal object recovery:** Recover individual objects by choosing a recovery point and mounting VM disks from the backup directly to another machine.

**Cross-platform recovery (V2V):** Recover Hyper-V VMs as VMware or Nutanix AHV VMs by exporting backups in different virtual disk formats such as VMDK, VHD, or VHDX without compatibility issues.

**Direct VM recovery from Tape:** Restore full Hyper-V virtual machines from backups stored on tape media without a staging repository.

## RANSOMWARE PROTECTION FOR HYPER-V

Protect your hyper-V backup infrastructure from cyber threats with immutable backups, flexible storage options, and robust security measures, ensuring data remains secure and accessible at all times.

**Backup tiering:** Store Hyper-V backup copies onsite, offsite, in the cloud, and on tape to increase redundancy and ensure availability.

**Immutable local backups:** Enable immutability for Hyper-V backups stored in Linux-based local repositories to prevent any modification, including encryption by ransomware.

**Immutable cloud backups:** Enable immutability for Hyper-V VM backups stored in public clouds like Amazon S3, Wasabi, Azure Blob, Backblaze B2, and other S3-compatible storage platforms.

**Deduplication appliance immutability:** Enable immutability for Hyper-V backups residing on NEC HYDRAsstor storage system.

**Air-gapped backups:** Keep VM backup copies offline on tape or detachable NAS/USB drives to create an additional layer of ransomware protection.

**Backup Malware Scan:** Scan Hyper-V backups for potential malware and dormant ransomware infections to ensure safe recovery.

**Multi-layered encryption:** Protect backup data with AES-256 encryption at every stage of the backup and recovery process — at the source, during transit, and at rest in the repository.

**Robust security controls:** Prevent unauthorized access to backups with built-in security features like role-based access control (RBAC) and two-factor authentication (2FA).

## APPLY THE 3-2-1-1 BACKUP STRATEGY WITH NAKIVO



### 3 copies of your data

Keep at least **three** copies on local storage, cloud, tape, etc.



### Stored on 2 devices

Store on **two** different media (tape or the cloud).



### With 1 device off-site

Keep **one** copy offsite or in the cloud.



### And 1 copy of immutable/air-gapped

Make **one** backup copy immutable or air-gapped.

## COMPLIANCE WITH CYBERSECURITY REGULATIONS AND STANDARDS

NAKIVO Backup & Replication can help reinforce your cyber resiliency strategies by enabling proactive data protection, security and recovery.



**NIS2 DIRECTIVE**



**NIST CSF 2.0**



**GDPR**



**HIPAA**

## DISASTER RECOVERY

NAKIVO Backup & Replication provides robust disaster recovery features to minimize downtime and ensure uninterrupted operations during disruptive events.

**VM replication:** Create app-aware incremental Microsoft Hyper-V VM replicas that are identical copies of source VMs.

**Replication from backup:** Create VM replicas directly from existing Hyper-V backups to reduce the load on the source host, free up resources and save time.

**Instant VM Failover:** Resume critical workloads in seconds by failing over to a replica VM and get operations running quickly with a single click.

**Site Recovery:** Create automated disaster recovery sequences that can be launched with one click for various scenarios, including emergency failover, failback, datacenter migration and non-disruptive testing.

**Replica verification:** Instantly verify the integrity and recoverability of replicas with automated reports that include screenshots of test-recovered replicas.

## SEAMLESS OPERATIONS WITH LITTLE EFFORT

Enhance backup performance, reduce overhead, and optimize storage usage with NAKIVO Backup & Replication.

### AUTOMATED WORKFLOWS

**Policy-based data protection:** Automate Hyper-V backup and recovery jobs by defining custom policy rules to include or exclude VMs based on specific criteria.

**Job chaining:** Create seamless workflows by linking backup and backup copy jobs together. For example, a successful VM backup job to a local storage destination can start a Backup Copy job to copy the newly created backups to a public cloud.

### ENHANCED VISIBILITY AND MANAGEMENT

**Multilingual web interface:** Easily manage all backup and recovery activities in your preferred language: Full support for English and Spanish, in addition to other optionsBETA including French, German, Italian, Polish and Chinese.

**Overview dashboard:** Monitor the status of all data protection activities, solution components, and issues in one centralized dashboard.

**Calendar dashboard:** Manage current and future data protection workflows, schedule jobs and prevent overlap through the calendar dashboard.

**Global search:** Instantly find virtual machines, backups, jobs, repositories, and other objects; act on search results.

### OPTIMIZED BACKUP PERFORMANCE

**Backup size reduction:** Reduce storage needs and improve performance with compression, deduplication, unused block exclusion, log truncation and more.

**Network acceleration:** Deploy an additional Transporter component to increase backup and recovery speeds in busy LAN and WAN networks, especially for offsite targets.

**LAN-Free data transfer:** Increase data transfer speeds and offload production networks using HotAdd or Direct SAN Access modes.

**Bandwidth throttling:** Manage network bandwidth usage by configuring global or per-job bandwidth rules, especially during working hours.

### LIGHTWEIGHT AND RESOURCE-EFFICIENT

**Minimal footprint:** Save resources with a small solution footprint, requiring only 2 CPUs and 4GB RAM for a full deployment.

## MSP-READY FOR BAAS AND DRAAS

NAKIVO Backup & Replication enables MSPs to offer reliable data protection and disaster recovery services to clients with diverse IT environments, all while streamlining operations and delivering significant value.

**MSP Console:** Deliver full BaaS/DRaaS services to clients and centrally manage client environments with standalone instances as remote tenants alongside local tenants from the advanced MSP dashboard.

**Multi-Tenancy:** Create up to 100 isolated tenants within one product instance and manage them from a single pane of glass.

**Tenant overview dashboard:** Get a real-time view of all existing tenants' environments, including jobs,

repositories, nodes, inventory, and allocated resources, all at a glance.

**Self-Service:** Offload data protection and recovery tasks to tenants using the Self-Service Portal to save time.

**Tenant Resource Allocation:** Allocate data protection infrastructure resources (host, clusters, VMs, Transporters, Backup Repositories, etc.) to tenants based on their individual needs.

## TRUSTED BY GLOBAL BRANDS



## WHAT CUSTOMERS SAY ABOUT NAKIVO

“ During the trial period, one of our Hyper-V VMs failed and with NAKIVO Backup & Replication we successfully recovered that Hyper-V VM and put it on the same host in under 5 minutes.

Steven Schmidt, System Administrator at One World Direct.

“ NAKIVO saved us a significant amount of time and money. The solution is 4X faster, works without errors, and takes just 15 minutes to set up and deploy.

Cameron Rezvani, Senior Systems Engineer, Orange Coast Title Company

“ The solution helped us reduce backup time by 50%. We improved recovery times by 70% with instant VM recovery and granular recovery features.

Jesus Alfonso Rangel Diaz, IT Coordinator, Foxconn BC

## TOP RATED SOLUTION ON BIGGEST REVIEW PLATFORMS



## System Requirements

### Supported Microsoft Hyper-V versions

- Microsoft Hyper-V 2012–2022

### Full solution deployment requirements

- **Server:** 2 CPU cores, 4 GB RAM
- **NAS:** Refer to [System Requirements](#)

## Deployment Options

### Windows

- Windows Server 2012–2025 (21H2) (x64)
- Microsoft Windows 11 (x64) (21H2 / 22H2 / 23H2)
- Windows 10 Pro/Home/Enterprise (x64) (20H2 / 21H1 / 21H2)
- Windows 8 Professional (x64)

### Virtual Appliance

- Pre-configured VMware v5.5 – v8.0U3b
- Pre-configured Nutanix AHV v6.5 (LTS) - Nutanix AHV v6.10 (LTS), Nutanix AHV 6.7.1.5 (eSTS) - Nutanix AHV 6.8.1 (eSTS)

### Linux

- Ubuntu Server 16.04–20.04 (x64)
- Ubuntu Server LTS 22.04–24.04 (x64)
- Red Hat Enterprise Linux 7.4–9.5 (x64)
- SUSE Linux Enterprise 15 SP1–SP6 (x64)
- SUSE Linux Enterprise 12 SP3–SP5 (x64)
- CentOS Linux 7.0–8.5 (x64)
- CentOS Stream 8–9 (x64)
- Debian v10.1–12.1 (x64)
- AlmaLinux 8.7–9.4 (x64)
- Oracle Linux 7.4 - 9.4 (x64)
- Rocky Linux 8.3 - 9.4 (x64)

### NAS

- QNAP QTS v4.3-v5.2.0
- QNAP QuTS Hero h4.5.3-h5.1.5
- QNAP QuTScloud v4.5.1 - c5.1.0
- Synology DSM v6.0-v7.2.2
- ASUSTOR ADM v3.5-v5.0.0.RA82
- TrueNAS CORE v13.0-U6.2 - v13.3-U1
- Netgear ReadyNAS OS v6.9 - v6.10.9
- WD MyCloud OS v5

## READY TO GET STARTED?

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