

NAKIVO Backup & Replication

Affordable. Top Rated. Fast

NAKIVO delivers an agile and efficient backup solution for Microsoft Hyper-V environments. NAKIVO Backup & Replication was designed to meet the three key requirements for today's data protection solutions: advanced functionality, simple administration and cost-efficiency.

Business Challenge

Legacy backup solutions cannot satisfy the needs of modern IT infrastructures, which often combine virtual, physical and cloud workloads. Today's businesses are expected to maintain continuous availability and be able to quickly resume workflows after any disruptive event. For a Microsoft Hyper-V environment, the ideal data protection solution should remove unnecessary complexity, optimize resources and achieve lower TCO.

Solution Overview

As a backup solution designed for virtual environments and integrating native Microsoft tools, NAKIVO Backup & Replication treats the VM as a whole rather than as a set of separate files. When you perform a backup, the software creates a copy of the VM at the block level, that is, an image that includes VM disks, system state and configuration files. Image-level backups deliver swift recovery options, such as instant VM recovery, full VM recovery and granular recovery of files and application objects.

How It Works

Microsoft is only responsible for infrastructure upkeep and application availability. Data protection is your responsibility.

Image-Based

NAKIVO Backup & Replication creates a point-in-time copy of a VM, including its OS, system state and application configurations, and saves it as a single file or image.

Incremental

By using Hyper-V's Resilient Change Tracking (RCT) technology, the software copies only the data that has changed since the previous backup (that is, increments).

Application-Aware

The software creates transactionally consistent backups of applications and databases (Microsoft Exchange, Active Directory, Microsoft SQL, etc.) by capturing the state of their data, including in-memory data and pending transactions.

Leading Brands Trust NAKIVO



Automate and streamline Hyper-V backups with NAKIVO Backup & Replication for powerful, easy-to-use and cost-effective data protection



One Solution for Multiple Platforms

NAKIVO Backup & Replication delivers all-in-one protection for virtual, physical, cloud and SaaS environments. Manage backup, replication, instant granular recovery, disaster recovery, and more from a single point of control.



Versatile Deployment

Deploy NAKIVO Backup & Replication as a VMware/Nutanix VA or AMI in Amazon EC2, install on Linux or Windows OS with a single click, or on a NAS to create an all-in-one backup appliance.



Advanced Automation

Create policy rules to automate backup jobs and simplify routine administrative tasks. If a VM matches the rule, it is automatically added to or excluded from the corresponding job. Use job chaining to create sequences of data protection tasks.



Instant Verification

Instantly verify the validity of Microsoft Hyper-V VM backups with screenshots of booted VMs or by checking the availability of Hyper-V Integration Services if installed.



Multiple Storage Options

Store backups on-site, in a public cloud (Microsoft Azure, Wasabi, Amazon S3, Backblaze B2) or on tape to make sure your data is accessible and recoverable at any time.



Flexible Pricing

There are two pricing models to choose from: perpetual (licensed per CPU socket) and subscription (licensed per workload).

Features

Agentless Backup

Agentless solution, meaning that you don't need to install any third-party software inside the VM's guest OS or the VM's host.

Anti-Ransomware Protection

Create immutable backups in local repositories and in public clouds like Amazon S3, Azure Blob, Wasabi and Backblaze B2.

Flash VM Boot

Boot Microsoft Hyper-V VMs directly from backups to resume workflows nearly instantly.

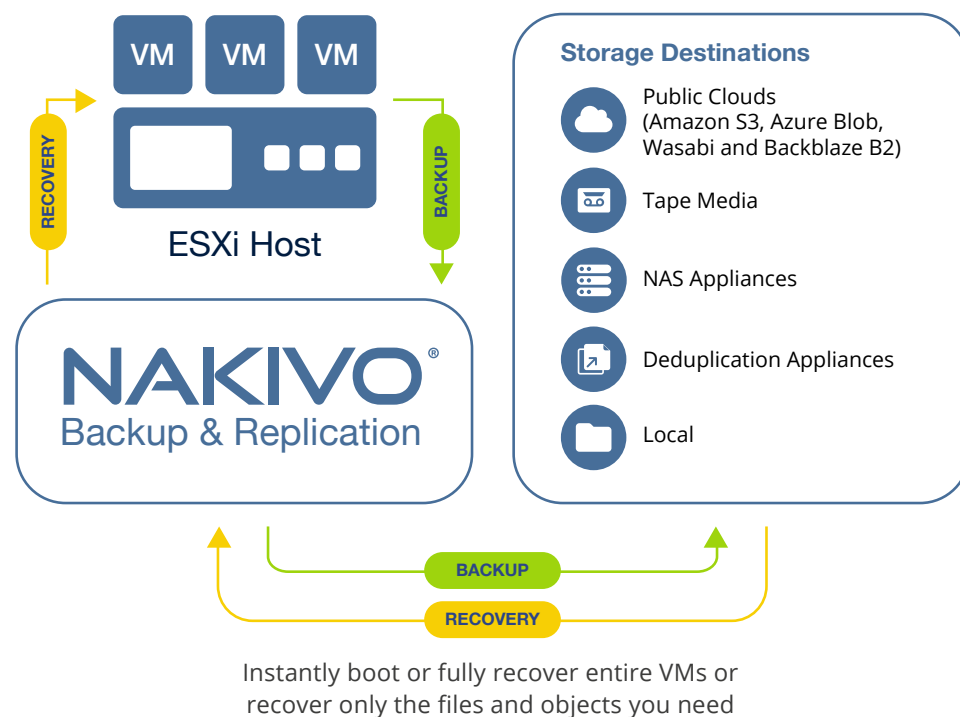
Instant Granular Recovery

Instantly recover individual files, folders or application objects without recovering the entire VM first.

LAN-Free Data Transfer

Enabled by default, LAN-free data transfer mode boosts backup speed while reducing network load.

Back up your Hyper-V VMs to any of the supported storage destinations



Recover from any disaster with NAKIVO Backup & Replication

Replication – Create an exact, ready-to-start copy of your VM for the fastest possible recovery.

Replication from Backup – Create a replica VM by using an existing backup.

Application Support – Ensure the consistency of applications and databases, such as Microsoft Exchange, Active Directory, SQL, and so on.

Replica Verification – Instantly verify VM replicas and get a report with screenshots of the test-recovered VMs.

Site Recovery – Resume your workflow nearly instantly by failing over to a replica VM and failing back once your production environment is up and running again.

Customer Testimonials

“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

“The amount of storage space reduction we got with NAKIVO Backup & Replication was truly awesome. We achieved a 3X reduction in storage space!”

Roland Kalijurand, IT Manager,
Radisson Park Inn

“NAKIVO Backup & Replication installed on a Synology NAS provides us with reduced deployment time, minimized complexity, and improved VM backup speed for the whole district.”

Jeong-Hyun Cho, Systems Manager,
Seoul City Gas

“NAKIVO Backup & Replication has saved us a tremendous amount of time and money. NAKIVO Backup & Replication provided us with a robust and cost-effective VM backup solution for protecting our virtual environment.”

Tony Burrus, CTO,
Compton Unified
School District

“With NAKIVO Backup & Replication, we have saved more than 50% vs. maintenance of our previous VM backup solution, and have additionally saved 25% more in storage space costs with better deduplication, lowering our backup expenses by 75% overall.”

Rick Braddy, Founder and CEO/CTO,
SoftNAS, Inc.

System Requirements

Supported Environments

NAKIVO Backup & Replication can protect the following platforms:

Physical

- Microsoft Windows Server 2012-2022 (20H2/21H2) (x64)
- Microsoft Windows 10 Pro/Home (20H2-21H2) (x64)
- Ubuntu (Server) v16.04, 22.04 LTS (x64)
- Ubuntu (Desktop) 18.04-22.04 LTS (x64)
- RHEL v7.0-9.0 (x64)
- SLES 12 SP1- 15 SP4 (x64)
- CentOS v7.0-8.4 (x64)
- CentOS Stream 8 (x64)

Virtual

- VMware vSphere v5.5 - v7.0.3
- Microsoft Hyper-V 2012-2022
- Nutanix AHV 5.15-5.20 (LTS)
- VMware Cloud Director 10.2.1-10.3.3.1

Cloud

- Amazon EC2

Applications

- Oracle Database 11g R2-19c

SaaS

- Microsoft 365
 - Exchange Online
 - Sharepoint Online
 - OneDrive for Business
 - Teams

Storage Integration

NAKIVO Backup & Replication provides advanced integration with the following deduplication appliances:

- HP StoreOnce 3.18.18 - 4.3.2
- Dell EMC Data Domain 6.1-7.9
- NEC HYDRAsTOR 5.5.1 - 5.6.0
- NEC Storage HS Universal Express I/O Module Version 1.8.0 - 1.8.4
- HPE 3PAR 3.1.2 and higher
- HPE Nimble 5.0.2 and higher

Deployment Options

NAKIVO Backup & Replication can be installed on the following operating systems:

Windows

- Microsoft Windows Server 2012-2022 (20H2/21H2) (x64)
- Windows 11 (x64) (21H2)
- Windows 10 Pro (x64) (20H2 / 21H1 / 21H2)
- Windows 10 Home (x64) (20H2/21H1/21H2)
- Windows 8 Professional (x64)

Linux

- Ubuntu (Server) 16.04-22.04 (x64)
- Red Hat Enterprise Linux 7.4-9.0 (x64)
- SUSE Linux Enterprise Server 12 SP3 - 15 SP4 (x64)
- CentOS v7.0-8.4 (x64)
- CentOS Stream 8 (x64)

NAS

- QNAP QTS v4.3-v5.0
- QNAP QuTS Hero h4.5.3-h5.0
- Synology DSM v6.0-v7.1
- ASUSTOR ADM v3.5-v.4.1
- FreeNAS 11.3
 - FreeBSD version 11.3
- TrueNAS CORE 12.0
 - FreeBSD version 12.0-12.3
- TrueNAS CORE 13.0
 - FreeBSD version 13.0
- NETGEAR ReadyNAS v6.9 – v6.10
- WD MyCloud OS v5

Hardware

NAKIVO Backup & Replication Requires the following hardware configuration:

Windows

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

About NAKIVO

NAKIVO is a US-based corporation dedicated to delivering the ultimate backup and site recovery solution. With 25 consecutive quarters of double-digit growth, 5-star online community reviews, 98% customer satisfaction with support, and more than 23,000 paid customers worldwide, NAKIVO provides an unprecedented level of protection for virtual, physical, cloud and SaaS environments.

