

Agentless Protection for Proxmox VE

NAKIVO Backup & Replication delivers reliable, agentless data protection for Proxmox VE virtual machines with advanced features, including fast backup, full and instant granular restore and robust replication, along with built-in ransomware protection capabilities, all within an intuitive, user-friendly interface



SINGLE PANE OF GLASS

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

FLEXIBLE DEPLOYMENT

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

MULTIPLE STORAGE TARGETS

on local, cloud, S3-compatible storage, NAS, NFS/SMB shares, deduplication appliances and tape.

AFFORDABLE PRICING

with flexible licensing suitable for small and medium-sized businesses and large enterprises.

FAST AND EFFICIENT VM BACKUP

Reliably protect your Proxmox VE VMs, while minimizing backup windows and reducing storage needs with fast, agentless and transactionally consistent backup.

Agentless backup: Create backups of Proxmox VE VMs directly without installing additional agents on each VM.

Incremental backup: Create image-based, incremental VM backups using native change tracking technology and transfer only new and modified data to optimize storage and speed.

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

VM template backup: Back up VM templates to ensure consistent and rapid deployment of pre-configured virtual machines.

Backup to Cloud: Directly back up Proxmox VE VMs to public clouds, including Amazon S3, Wasabi, Backblaze B2 and Azure Blob Storage.

Backup to S3-compatible storage: Send VM backups and backup copies to S3-compatible object storage platforms.

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

Backup copy: Create backup copies and send them offsite (tape, cloud, and other S3-compatible storage) or to other locations.

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

Federated Repository: Combines various “member” backup repositories into a single, scalable repository to ensure backups are automatically shifted to available repositories in case of storage failures or capacity issues.

Deduplication Appliance Integration: Back up to deduplication appliances such as HPE StoreOnce, Dell EMC Data Domain, and NEC HYDRastor with support for native deduplication protocols.

BENEFITS

2X

faster backups
with native change
tracking

49%

lower TCO than other
vendors for the same
features

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

Named in the Honorable Mention Section in the 2024 Gartner® Magic Quadrant™ Enterprise Backup and Recovery Software Solutions again*

4.8 out of 5

Overall rating

97%*

Willingness to recommend

INSTANT RECOVERY

Restore anything you need from backups within seconds through flexible recovery options to accommodate various potential data loss scenarios.

Instant VM recovery: Boot Proxmox VE VMs directly from backups without running a full recovery; migrate to production if necessary.

Full VM recovery: Recover full VMs to the same or different location in case the data is accidentally deleted or corrupted.

Instant file recovery: Instantly browse, search, and recover individual files and folders from Proxmox VE backups to the original or a custom location.

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

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

VM template recovery: Recover Proxmox VE VM templates from backups to the same or a different location.

Direct VM recovery from tape: Restore full VMs from backups stored on tape directly to your infrastructure without using a staging repository.

RANSOMWARE PROTECTION FOR PROXMOX VE

Protect Proxmox VE VM backups from ransomware and accidental deletion with advanced cybersecurity features like backup immutability, air-gapping, encryption and robust security controls.

Backup data tiering: Store VM backups and backup copies onsite, offsite and in the cloud to ensure constant availability and complete recoverability in case of an attack.

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

Immutable cloud backups: Create immutable VM backups in Amazon S3, Wasabi, Azure Blob, Backblaze B2 and other S3-compatible storage platforms.

Deduplication appliance immutability: Enable immutability for backups stored in NEC HYDRAsstor and Dell EMC storage systems.

Air-gapped backups: Keep Proxmox VE VM backups and backup copies offline on tape, detachable NAS devices or USB drives for ultimate ransomware protection.

Powerful backup encryption: Encrypt backup data 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).

DISASTER RECOVERY

Quickly recover from outages and disruptions with minimal to zero downtime and data loss using the solution's robust disaster recovery features for Proxmox VE.

VM replication: Create and maintain identical Proxmox VE VM replicas. Store fully functional copies of source VMs for high availability and fast recovery.

Replication from backup: Create VM replicas directly from existing backups to reduce the load on the production environment.

Replica verification: Verify the integrity of Proxmox VE VM replicas with automated test recoveries and screenshot-based reports.

Application support: Ensure data consistency during replication with application-aware processing for Microsoft Exchange Server, Active Directory and SQL Server.

MSP-READY FOR BAAS AND DRAAS

NAKIVO Backup & Replication enables managed service providers (MSPs) to deliver data protection and disaster recovery as a service to clients with diverse IT setups.

MSP Console: Offer full BaaS/DRaaS services to clients or manage client environments with standalone instances 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 via the self-service portal.

Tenant resource allocation: Allocate data protection infrastructure resources (hosts, clusters, individual VMs, Backup Repositories) to tenants.

Direct Connect: Securely access tenant environments without requiring VPNs or open ports on the tenant's side, using encrypted connections for safe communication.

FAST OPERATIONS WITH LITTLE EFFORT

Boost backup performance and minimize administrative overhead using a wide range of built-in features in NAKIVO Backup & Replication.

AUTOMATED WORKFLOWS

Job chaining: Link Proxmox VE VM backup and backup copy jobs to run one after another.

ENHANCED VISIBILITY AND MANAGEMENT

Multilingual web interface: Easily manage all backup and recovery activities in your preferred language: English, Spanish, French, German, Italian, Polish and Chinese.

Overview dashboard: Monitor the status of your data protection activities, solution components, and issues in a centralized dashboard.

Calendar dashboard: Manage current and future data protection workflows, schedule jobs and prevent overlaps.

Global search: Instantly find VMs, backups, repositories, and other objects.

OPTIMIZED BACKUP PERFORMANCE

Backup size reduction: Reduce space consumption and improve performance with compression, deduplication, unused block exclusion, log truncation and more.

Network acceleration: 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: Limit the speed of backup data transfers by configuring global or per-job bandwidth rules, especially during working hours.

LIGHTWEIGHT AND RESOURCE-EFFICIENT

Minimum footprint: A full solution deployment requires only 2 CPUs and 4GB RAM.

WHAT CUSTOMERS SAY ABOUT NAKIVO

“ We save more than 50% on VMware backup and additionally, 25% in storage space costs with better deduplication, lowering our backup expenses by 75% overall.

Rick Braddy, CEO/CTO at SoftNAS

“ The solution is faster than other products I have used and supports many different configurations.

Praful Soni, Senior
IT Manager at Transpek

“ With granular recovery, we can restore files in just a few minutes, while previously it would have taken us hours to restore the entire VM that held it.

Krister Laag, CIO at Stendahls

TOP RATED SOLUTION ON BIGGEST REVIEW PLATFORMS



DEPLOYMENT OPTIONS

WINDOWS

- Windows Server 2012–2025 (x64)
- Microsoft Windows 11 (21H2–24H2) (x64)
- Windows 10 (1809–22H2) (x64)

LINUX

- Ubuntu Server and Desktop 16.04–24.04 LTS (x64)
- Red Hat Enterprise Linux 7.4–9.5 (x64)
- SUSE Linux Enterprise v12 SP3–v15 SP6 (x64)
- CentOS Linux 7.0–8.5 (x64)
- CentOS Stream 8–10 (x64)
- Debian 10.1–12.10 (64-bit)
- AlmaLinux 8.7–9.5 (x64)
- Oracle Linux 7.4–9.5 (64-bit)
- Rocky Linux 8.3–9.5 (64-bit)

NAS

- QNAP QTS v4.3–v5.2.3
- QNAP QuTS Hero h4.5.3–h5.2.0
- QNAP QuTScloud v4.5.1–c5.1.0
- Synology DSM v6.0–v7.2.2
- ASUSTOR ADM v3.5–v5.0.0
- TrueNAS CORE v13.0-U6.2–v13.3-U6.3
- Netgear ReadyNAS OS v6.9–v6.10.10
- WD MyCloud v5

VIRTUAL APPLIANCE

- Pre-configured VMware v5.5–v9
- Pre-configured Nutanix AOS v6.5-7.0.1.5

For more information,
refer to [Deployment Requirements](#).

SYSTEM REQUIREMENTS

SUPPORTED OPEN-SOURCE PLATFORMS

- Proxmox VE 8.x

FULL SOLUTION DEPLOYMENT REQUIREMENTS

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

READY TO GET STARTED?

[DOWNLOAD FREE TRIAL](#)[BOOK FREE DEMO](#)

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