# What's New: NAKIVO Backup for Proxmox VE



PROXMOX

3-2-1-1 WITH IMMUTABILITY
AND BACKUP COPY

Proxmox VE, an open-source virtualization platform, is becoming more popular in IT infrastructures across various industries. As with any virtual environment, Proxmox VE requires reliable data protection that seamlessly integrates into daily workflows.

Native backup tools are not enough to provide organizations with reliable and flexible protection against data loss, disruptions and ransomware attacks. This is why NAKIVO introduced Backup for Proxmox VE, an agentless backup functionality that delivers additional reliability, security and resilience. By deploying NAKIVO Backup & Replication, you get a backup infrastructure that is independent of your Proxmox infrastructure. You also get a broader range of backup targets, more flexible recovery options, better anti-ransomware features with immutability and backup encryption, and much more.

Here's the new functionality in more detail.

## AGENTLESS BACKUP FOR PROXMOX VE

NAKIVO Backup for Proxmox VE is an agentless functionality that allows you to protect VMs at the host level. With this approach, you do not need to deploy and manage agents on individual VMs, you ensure that VM performance is not compromised and operational disruptions are minimized. As a result, you get faster backup and recovery times and reduced overhead for IT staff.

This functionality seamlessly integrates with Proxmox VE, using a native API to maintain smooth operations and compatibility with the latest features. This also ensures simplified management and efficient execution of backup and recovery processes to meet your recovery objectives (RPOs and RTOs).

## MAIN CAPABILITIES

### Backup

- Fast **incremental backup** using native change detection technology to process only changed data blocks.
- **Application-aware backups** to ensure that application data in Microsoft Exchange Server, SQL Server and Active Directory is consistent and ready for swift recovery.
- Direct **backup to cloud**, including Amazon S3, Wasabi, Backblaze B2 and Azure Blob Storage, as well as S3-compatible storage platforms.
- **Backup copy** to offsite and onsite targets like public clouds, S3-compatible storage, local storage, network shares, deduplication appliances, tape, etc.
- **Job Chaining** to automate backup copy workflows after the first backup is successfully created, allowing you to increase efficiency and save time on backup administration.

### Recovery

- **Full VM recovery** to restore full Proxmox VE VMs from backups to the same or different location.
- **Instant file recovery** of individual files, and folders to the original or a different location.
- **Instant object recovery** of Microsoft Exchange Server, SQL Server and Active Directory to the original location or a different location.
- **Universal object recovery** of any application object to a custom location regardless of the application or file system type.

## Ransomware Protection

- **Immutable backups** in local and cloud storage to prevent ransomware encryption and other unwanted modifications.
- **Air-gapped backups** with copies stored offline on detachable drives, such as tape, for an additional layer of ransomware protection.
- **Immutable backups on deduplication appliances** for Proxmox VE VM backups sent to repositories on NEC HYDRAstor storage systems.

## Security and Compliance

- Robust **backup encryption** at the source to protect backup data with AES-256 encryption at every stage — during transit and storage in the repository.
- **Two-Factor Authentication (2FA)** adds a layer of security with one-time codes generated via Google Authenticator to protect your data protection activities.
- **Role-Based Access Control** with preset and custom roles to prevent unauthorized access to your Proxmox VE data protection activities.

## Administration

- **Web interface:** Manage all backup and recovery activities from an easy-to-use centralized web interface with convenient dashboards and step-by-step wizards.
- **Calendar Dashboard:** View and manage all past, current and future jobs in a simple calendar view. Easily schedule Proxmox VE VM backup jobs and avoid scheduling overlaps.
- **Global Search:** Search for and quickly locate any file or folder you need to ensure efficient and accurate recovery.
- **Performance enhancing features:** Manage data transfer speeds and offload production resources with Network Acceleration and Bandwidth Throttling as well as exclude swap and unused blocks to shorten backup windows and minimize the impact on core operations.
- **Flexible deployment:** Install the solution in minutes on Linux, Windows, NAS (to create a backup appliance), or as a VA or AWS AMI.
- **Self-Backup:** Back up and recover your NAKIVO Backup & Replication system configuration (jobs, inventory, logs, settings, etc.) from the same unified interface.

## READY TO GET STARTED?

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