What's New in NAKIVO Backup & Replication
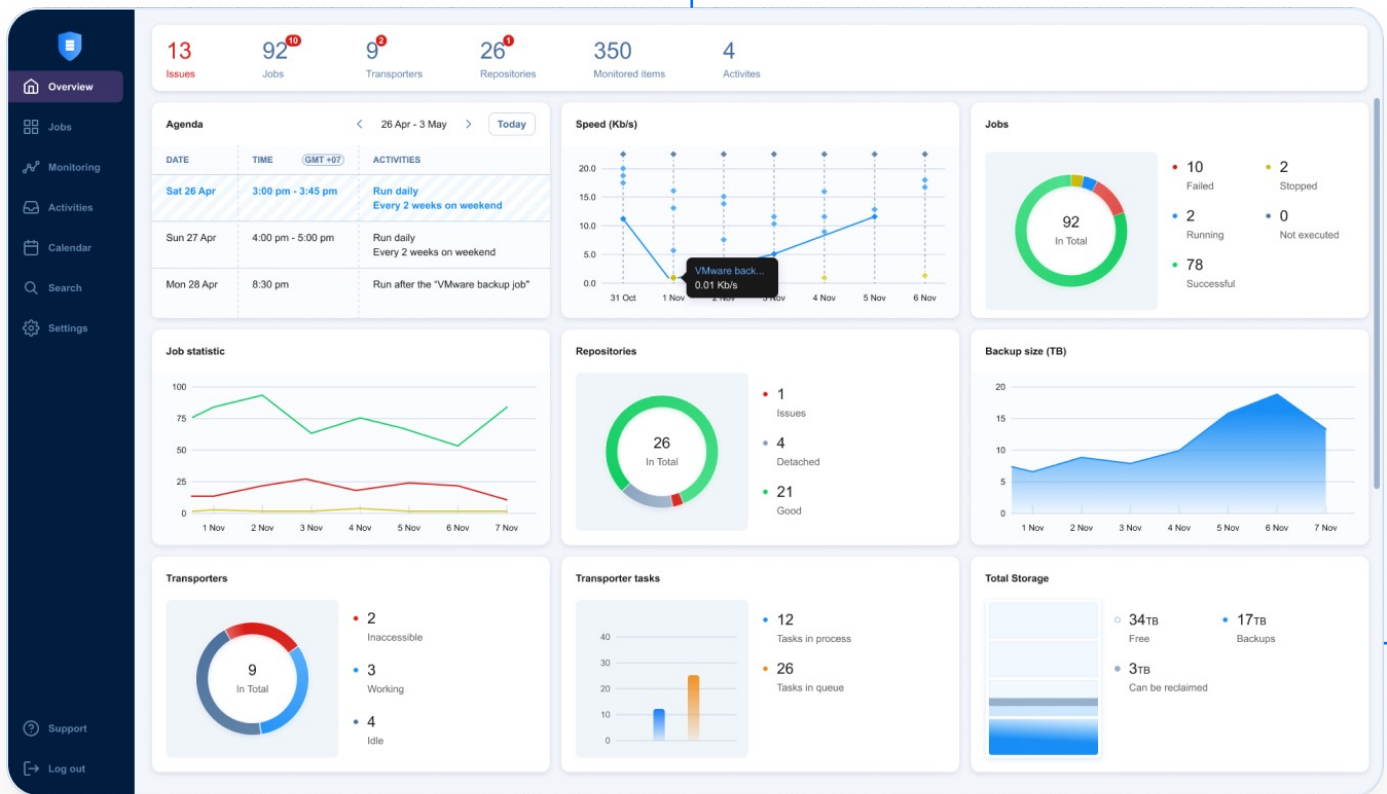
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Introduction

Driven by the need for tailored data protection, we've released 4 new versions of NAKIVO Backup & Replication since January 2023, each with much sought-after features and advancements.

From virtualized and physical platforms to managed service providers (MSPs), disaster recovery, and ransomware protection, we continue to ensure our customers receive a customized and efficient data protection experience.

The following is a list of the major new features and enhancements added to NAKIVO Backup & Replication up to version 10.11.

Protection for Virtual Environments

NAKIVO Backup & Replication is purpose-built for virtual environments, offering fast and reliable VM data protection tailored for various virtualization platforms, including VMware vSphere, VMware Cloud Director, Microsoft Hyper-V, and Nutanix AHV.

Real-Time Replication (Beta) for VMware

This DR functionality allows you to create replicas of their VMware vSphere VMs and keep them updated with the source VM as changes are made. Replicas are updated as frequently as one second in real time, allowing for near-zero application downtime and minimal data loss during a disaster.

Latest VMware version support

Ensuring customers have access to the latest advancements in distributed workload technology is a top priority for NAKIVO. In alignment with this, we added support for the latest VMware vSphere versions upon release, including:

• vSphere 8 U1 Support
• vSphere 8 Update 2 Support

Backup and Recovery for Physical Environments

Extending protection to physical infrastructure, NAKIVO introduced backup capabilities for Windows and Linux Servers and workstations to ensure data protection across diverse IT landscapes.

Bare-metal recovery

The bare-metal recovery feature enhances the existing physical recovery functionality, providing you with flexible and fast physical server recovery. You can restore an entire server or workstation from a backup to identical hardware without rebuilding the operating systems or reconfiguring application settings.

This functionality offers a fast and efficient approach to restoring physical machines to the last known good state, enabling you to recover from incidents or roll back undesired changes/deletions made before.

Backup for Microsoft 365

NAKIVO Backup for Microsoft 365 is a powerful solution designed to provide fast backup and recovery of OneDrive for Business, SharePoint Online, Exchange Online and Microsoft Teams data. Here's what's new in NAKIVO Backup for Microsoft 365.

Native Microsoft 365 change tracking

With the integration of Microsoft's native change-tracking functionality, you can perform faster incremental backups of Microsoft 365 data and avoid overloading the network. The solution can track and process only the data that has changed since the last backup instead of performing a full scan of the data on every incremental backup job run.

In-Place Archive Mailbox, Litigation Hold and In-Place Hold support

NAKIVO has added support for additional Exchange Online mailbox items in NAKIVO Backup for Microsoft 365.

- In-Place Archive mailboxes
- Litigation Hold items
- In-Place Hold items

Back up the mailbox folders you need and recover the entire folder or specific files and other items to the original or a different user account.

Managed Service Providers (MSPs)

Multi-Tenancy allows managed service providers to manage and customize data protection efficiently for multiple clients from a single platform. Since then, we have continued to deliver specialized features and capabilities that enable service providers to cater to their clients' needs better and improve. Here are the latest MSP features introduced in NAKIVO Backup & Replication:

MSP Console

NAKIVO introduced the MSP console for centralized management of all clients, allowing service providers to streamline operations, enhance efficiency, and provide robust data protection services to their clients.

MSPs can add clients with standalone NAKIVO Backup & Replication deployments as remote tenants in their multi-tenant deployment of the solution. This enables them to manage and monitor the data protection activities of all tenants, both remote and local, with ease from a unified MSP dashboard.

Direct Connect

Direct Connect allows MSPs to access the remote resources of their clients through a single direct port connection without the need for a VPN connection. The feature supports VMware vSphere, physical machines, VMware Free ESXi hosts and NAS-based Transporters.

IT Monitoring

Keeping track of resource usage in VMware infrastructure is crucial for optimizing VM performance and preventing bottlenecks. The NAKIVO Monitoring for VMware functionality allows you to:

- Monitor the CPU, RAM, and disk usage of your VMware vSphere hosts and VMs as well as datastores.
- Create and configure custom alerts triggered by various metrics for hosts, VMs, and datastores.
- Receive different types of reports about the monitored vSphere items in your infrastructure, delivered directly to your inbox.

Integration of Enterprise Storage Devices

NAKIVO's comprehensive approach allows you to create a versatile hybrid and multi-cloud backup storage strategy, seamlessly integrating onsite, cloud, deduplication appliances and tape storage solutions. Here's what's new in the storage capabilities of NAKIVO Backup & Replication.

Backup from storage snapshots

NAKIVO Backup & Replication seamlessly integrates enterprise storage devices from leading vendors for backups and replicas directly from storage snapshots.

You can back up and replicate VMware vSphere VMs hosted on HPE 3PAR, HPE Nimble, HPE Primera and HPE Alletra Storage appliances directly from storage snapshots instead of regular VM snapshots to save time and reduce infrastructure load.

Cloud storage

With the rise of hybrid cloud (mixing private and public cloud infrastructures), businesses may face new challenges when managing cloud costs.

Earlier versions of NAKIVO Backup & Replication supported cloud storage options, such as Amazon S3, Wasabi, Azure Blob and Backblaze B2, which offered secure storage for backup and recovery needs with an immutability option to protect backups against ransomware infections.

S3-compatible object storage

NAKIVO Backup & Replication has introduced support for S3-compatible object storage repositories for backups, providing users with an additional option for storing their backup data. It allows you to store backups in storage compatible with the S3 API and choose from a variety of cost-efficient platforms that fit your needs.

Additionally, backups stored in S3-compatible storage can be configured as immutable, providing protection against ransomware attacks and accidental deletion.

Direct VM recovery from tape storage

Although most businesses rely on disk-based or cloud-based backups, tape backups are still widely for backup data archival and long-term storage. NAKIVO has long supported storing data backups on LTO tape libraries and standalone drives, as well as AWS Virtual Tape Library (VTL).

With the new direct VM recovery from tape feature, customers can perform fast recoveries without the need for a staging repository. They can recover full VMs, EC2 instances, and physical machines as VMware VMs directly from their backups stored on tape media to their infrastructure.

Databases

NAKIVO Backup & Replication has long supported Oracle Database backup and recovery via the native RMAN functionality.

Existing functionality supports backup via RMAN for Oracle Database on Windows. Our latest 10.11 version extended this support to include Oracle RMAN on Linux systems. Customers can protect their Oracle databases with integrated, automated backup and recovery system on both Windows and Linux platforms – all from a unified console.
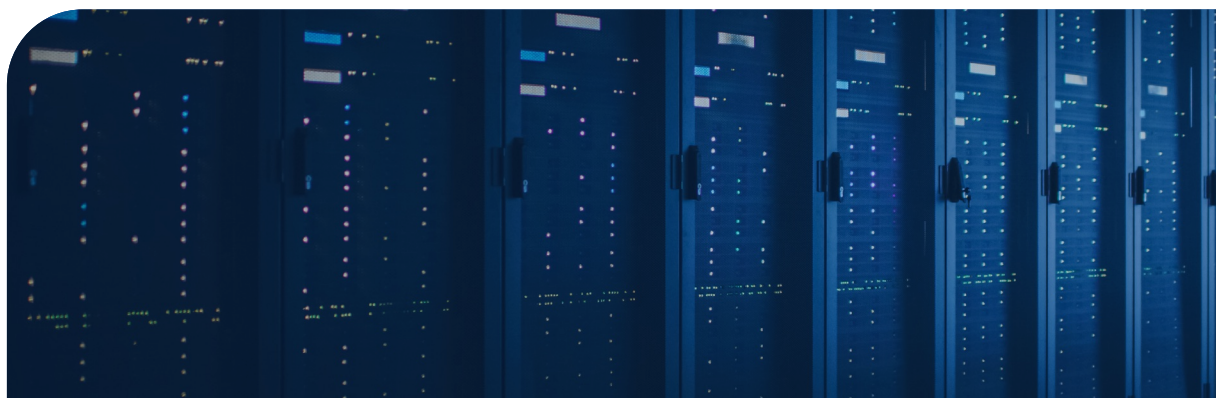
Core Solution Component Enhancements

NAKIVO is constantly working on enhancing the solution components and capabilities to simplify and optimize the data protection activities for our customers. Each of these improvements contributes to a more reliable and efficient data protection experience. The following section highlights key improvements in NAKIVO Backup & Replication:

Backup Malware Scan

[Scan backups for malware](#) and ransomware before recovery to prevent infections in your infrastructure. Integrate the solution with Windows Defender, ESET NOD32, and Sophos to perform a malware scan and ensure backups can be safely used for recovery. If malware is detected, choose to fail the recovery or recover to an isolated network.

File System Indexing

Create an index of all the files and folders within your VMware and Hyper-V VM backups and easily find a specific file or folder to save time during granular recoveries. To recover a file or folder, just use Global Search to find it in the index.

Universal Transporter

Use a single universal transporter to manage physical servers, virtual machines, tape devices, and Oracle Database via RMAN residing on the same host.

Debian support

Install the solution directly on Debian operating systems and/or protect your Debian OS-based physical machines. Create app-aware, incremental backups of physical machines running Debian 10.1 and up to Debian 11.6.

Simplified backup retention settings

Configure job schedules and retention settings in one step and in a single view. Specify retention settings for each schedule within a backup or replication job and set expiration dates for recovery points for more granular control.

Persistent Agent

Deploy a [persistent agent](#) on virtual machines for guest processing. Access your VMs without entering credentials to streamline administration and avoid security issues.

Job priority

Set the priority level in the queue for critical backup jobs to be processed first and ensure they are completed on time. Assign priority levels from 1 to 5, with one being the highest, to ensure that high-priority jobs get the necessary solution resources as soon as they become available.

Merge jobs

Merge data protection jobs of the same type into a single job to streamline backup management and spend less time on routine tasks. Keep your workflows uncluttered by aggregating backup, backup copy or replication jobs into one job.

Try all features

Get instant access to the complete feature set of NAKIVO Backup & Replication for 15 days with a single click, regardless of your solution edition.