

# NAKIVO Backup & Replication v6 for VMware

NAKIVO Backup & Replication is a fast, reliable, and affordable solution for VMware VM backup, replication, and recovery

## Key Benefits

- **Save time** with simple and intuitive Web interface and reliable product that does not require babysitting
- **Backup faster** with LAN-free and Network acceleration features
- **Recover faster** with instant VM, file and application objects recovery
- **Reduce storage space** with global deduplication and compression of backups
- **Improve uptime** with RTO and RPO of just 10 minutes
- **Save Budget** with affordable pricing

## VM Backup Onsite and Offsite

NAKIVO Backup & Replication provides image-based VMware VM backup. You can run back up VMs on schedule or ad hoc, both locally over LAN and offsite over WAN. For each VM backup, you can save up to 1,000 recovery points and rotate them on a daily, weekly, monthly, and yearly basis. All backup jobs are forever-incremental and use VMware Changed Block Tracking to quickly identify changed data, which results in fast backups. To further boost backup speed, you can enable the LAN-free and Network Acceleration features. NAKIVO Backup & Replication supports Exchange, Active Directory, MS SQL, SharePoint, and other applications and databases running in VMs, ensuring that all backups are consistent. To save storage space, all VM backups are automatically compressed and deduplicated across entire backup repository.

## VM Backup to Amazon Cloud

NAKIVO Backup & Replication can back up VMs directly to Amazon cloud, which provides one of the most reliable and affordable storage services. The setup process is simple and automated - you can create a backup repository in Amazon cloud in just a few clicks, and then just choose the new cloud backup repository as a destination for your backups.

## Backup Copy

VM backups can be damaged, accidentally deleted, or become unavailable. Backup Copy jobs provide a simple yet powerful way to create and maintain copies of your backups. You can configure backup copy jobs to suite your needs: run Backup Copy jobs on their own schedule, send backup copies offsite or to Amazon cloud, maintain a mirrored copy a backup repository or copy only selected backups, or set a different retention policy for your backup copies.

## VMware VM Replication

VM replication creates and maintains identical copies of source VMs on target ESXi hosts. VM replicas are regular VMs that are available in VMware vSphere, so if source VMs are unavailable, you can instantly recover by powering on VM replicas. On top of that, you can save up to 30 recovery points for each replica and roll back to a good recovery point at any time.

## Time and Cost Savings

- Streamline deployment and scale out with pre-configured VMware VAs and AWS AMIs
- Create a high performance VM backup appliance by installing directly on Synology or WD NAS
- Reduce footprint with just 2 CPU cores and 4 GB RAM required for a single-site deployment.
- Reduce configuration and maintenance time with purely agentless solution
- Reduce management complexity with simple and intuitive Web interface
- Reduce backup windows with LAN-free backup and Network Acceleration
- Protect backups by copying them to another backup repository onsite, offsite, and in Amazon cloud
- Save storage space with built-in global data deduplication and compression
- Reduce recovery time with instant recovery of VMs, files, and application objects
- Automatically verify backups and get email reports with OS screenshots of test-recovered VMs

## Screenshot Verification

NAKIVO Backup & Replication provides an automated way to near-instantly verify VM backups. After a VM backup is completed, the product instantly recovers the VMs from its newly created backup, waits until the OS has booted, makes a screenshot of the OS, discards the test-recovered VM, and sends you a report with the screenshot via email. This way you can not only trust that you have a good backup, but also see (and show to your management) that backups are good and VMs can be recovered.

## Global Data Deduplication and Compression

NAKIVO Backup & Replication automatically deduplicates all VM backups across an entire backup repository. Data deduplication works at the block level and ensures that only unique data blocks are saved. On top of that, deduplicated blocks are compressed to ensure that the least amount of space is used.

## Instant VM Recovery

Flash VM Boot enables you to run (boot) VMs directly from compressed and deduplicated VM backups. This way you can recover your VMs within seconds, without waiting for full restore from VM backup files. Using Flash VM Boot you can also verify VM backups, run disaster recovery tests, and test system updates and application patches.

## Instant Granular Recovery

NAKIVO Backup & Replication enables browsing, searching, and recovering files, Microsoft Exchange objects, and Microsoft Active Directory objects directly from compressed and de-duplicated VM backups, without restoring the entire VM first. This feature is 100% agentless, works out of the box for all backups, and does not require creating a special lab or running a special VM backup type.

## Full VM Recovery from VM Backup

If a backed up VM is accidentally damaged or deleted, you can recover it from its backup in just a few clicks. The VM will be recovered in exactly the same state as it was during the backup and will appear on the ESXi you selected for recovery.

## Disaster Recovery with VM Replicas

Because VM replication creates identical copies of source VMs, recovering from a disaster is as simple as powering on the replicated VMs. If a source VM has been damaged and then replicated, you can roll it back to a previous recovery point.

## HTTP APIs for Automation

HTTP APIs enable you to automate and orchestrate VM backup, replication, and recovery. APIs enable you to integrate NAKIVO Backup & Replication with monitoring, automation, and orchestration solutions to reduce time spent on data protection management and decrease data protection costs.

## Deployment Options

- **Install on NAS:** Create a high-performance VM backup appliance by installing directly on a WD or Synology NAS
- **Deploy as a VMware VA:** Simply download and import a pre-configured VMware Virtual Appliance
- **Deploy as AWS AMI:** Instantly deploy in Amazon cloud from a pre-configured Amazon Machine Image
- **Install on Linux or Windows:** Install in a single click on Windows or by running a single command on Linux

## Network Acceleration

Because WAN and LAN links are often slow or have limited bandwidth, NAKIVO Backup & Replication can use compression and traffic reduction techniques to speed up data transfer. On average, this results in a network load reduction of 50% and a data transfer acceleration of 2X.

## LAN-Free Backup and Replication

With NAKIVO Backup & Replication you can use your fiber-channel and iSCSI SANs to offload management and production networks while significantly increasing data transfer speeds.

## Multi-Threading

Multi-Threading enables NAKIVO Backup & Replication to run dozens of backup, replication, and recovery jobs simultaneously, which speeds up data processing and shortens the time windows allocated to data protection.

## Automated VM Protection

You can ensure that important VMs are always backed up and replicated by protecting entire VMware containers - such as resource pools, folders, hosts, and clusters. This way all new VMs that are created in or moved to a protected container are automatically added to your VM backup and replication jobs.

## Intuitive Web Interface

The simple and intuitive Web interface enables managing all aspects of data protection at any time and from anywhere, on a tablet. This saves hours of time spent on backup administration.

## Enterprise Scalability

NAKIVO Backup & Replication is a modular solution that can be fully installed on a single machine to protect small and mid-sized environments, or can be installed on distributed systems to protect enterprise environments with 10,000+ AWS EC2 instances.

## Call Home

NAKIVO Backup & Replication can automatically create, encrypt, and upload support bundles to a NAKIVO support server. This helps NAKIVO team to quickly identify and resolve support issues.

## Multi-Tenancy and Self-Service

Multi-tenancy enables creating multiple isolated groups, departments or tenants within a single product deployment and manage them from a single pane of glass. This way you can introduce backup-as-a-service to your clients more easily and cost-effectively. In the Multi-Tenant mode, tenants can access the self-service portal to offload backup, replication, and recovery tasks from the service provider.

## About NAKIVO

Headquartered in Silicon Valley, NAKIVO Inc. is a privately-held company founded in 2012. NAKIVO develops a fast, reliable, and affordable data protection solution for VMware and Amazon Cloud environments. As of Q4 2015, over 10,000 customers are using NAKIVO Backup & Replication to protect and recover their data more efficiently and cost effectively. In addition, over 100 hosting, managed, and cloud services providers are using NAKIVO to deliver VM Backup-as-a-Service, and Disaster-Recovery-as-a-Service to their customers. NAKIVO also has over 1,000 channel partners in 112 countries worldwide.

## System Requirements

NAKIVO Backup & Replication requires 2 CPU cores and 4 GB RAM (except for when installed on supported NAS models). The product can be installed on:

### Linux:

- Ubuntu 12.04 Server (x64)
- Red Hat Enterprise Linux 6.3 (x64)
- SUSE Linux Enterprise 11 SP2 (x64)

### Windows:

- Windows Server 2012 R2 Standard
- Windows Server 2012 Standard
- Windows Server 2008 R2 Standard
- Windows 8 Professional (x64)
- Windows 7 Professional (x64)

### Synology NAS:

- DS1513+
- DS1515+
- DS1813+
- DS1815+
- DS2413+
- DS2415+
- DS3615xs
- DS415+
- DS713+
- RC18015xs+
- RS18016xs+
- RS2414+
- RS2414RP+
- RS2416+
- RS2416RP+
- RS3614RPxs
- RS3614xs
- RS3614xs+
- RS815+
- RS815RP+

### Western Digital NAS:

- My Cloud DL2100
- My Cloud DL4100

Learn more at [www.nakivo.com](http://www.nakivo.com)

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