#1 Backup, Ransomware Protection and Site Recovery for Virtual, Physical, Cloud, and SaaS Environments

Affordable, Top-Rated and Fast solution solution that delivers backup, replication, instant restore, disaster recovery, and infrastructure monitoring in a single pane of glass.

Backup

With NAKIVO Backup & Replication, you can reliably protect your virtual, physical, cloud, and SaaS environments, ensure the consistency of application data, increase backup performance, and reduce backup size.

- **VM Backup:** Create image-based, incremental backups of VMware vSphere, Microsoft Hyper-V, and Nutanix AHV VMs.

- **Microsoft 365 Backup:** Create incremental backups of Microsoft 365 data in Exchange Online, Teams[NEW], OneDrive for Business, and SharePoint Online.

- **Physical Machine Backup:** Create image-based, incremental backups of Windows-based and Linux-based physical servers and workstations.

- **Amazon EC2 Backup:** Create image-based, incremental backups of Amazon EC2 instances.

- **Oracle Backup:** Create backups of Oracle databases via RMAN.

- **VMware Cloud Director Backup:** Back up VMware Cloud Director objects, such as vApps, individual VMs, and storage policies.

- **Backup from Storage Snapshots:** Create backups for VMware VMs hosted on HPE 3PAR and Nimble Storage devices directly from storage snapshots.

- **Backup to Cloud:** Send backups or backup copies to public clouds, including Amazon S3, Wasabi, Backblaze B2, and Azure Blob Storage.

- **Ransomware-Resilient Backups:** Enable immutability for backups sent to local Linux-based repositories as well as repositories deployed as part of a pre-configured hardened virtual appliance or Amazon Machine Image.

- **Immutable Cloud Backups:** Create immutable backups in Amazon S3, Wasabi, Backblaze B2, and Azure Blob cloud storage that can't be changed or encrypted by malicious actors.

- **Backup to Tape:** Send backup copies to physical tape libraries and AWS VTL; easily manage tape devices, cartridges, and backups.

- **Backup Copy:** Create copies of your backups and send them to a remote site or a public cloud.

- **Global Deduplication:** Deduplicate backups across the entire backup repository, regardless of the platform.

- **Instant Backup Verification:** Instantly verify VMware vSphere and Microsoft Hyper-V VM backups; get a report with screenshots of test-recovered machines.

- **Application Support:** Ensure the consistency of applications and databases, such as Microsoft Exchange Server, Microsoft Active Directory, and Microsoft SQL Server.

- **Deduplication Appliance Integration:** Send backups to deduplication appliances such as HPE StoreOnce, Dell EMC Data Domain, and NEC HYDRAstor with support of native deduplication protocols.

23,000+

paid customers across the Americas, Europe and Asia

98%

customer satisfaction with support

5-star

online community reviews

Largest customers protect

8 000+

VMs

300+

Sites

NAKIVO®

NAS Backup

- **File Share Backup:** Back up network shares over CIFS/NFS hosted on NAS devices as well as Windows and Linux machines.

- **Backup Copy:** Easily create backups and backup copies of shares or specific share folders and send them offsite.

- **File Recovery:** Recover entire file shares and specific files/folders inside sharesto a custom location on CIFS/NFS shares, send via email, or download to a browser.

Instant Recovery

With NAKIVO Backup & Replication, you can instantly recover VMs, files, and application objects directly from backups.

- **Instant VM Recovery:** Boot VMware vSphere and Microsoft Hyper-V VMs directly from backups; migrate booted VMs to production if necessary.

- **Instant Physical to Virtual (P2V):** Instantly recover physical machines from backups as VMware vSphere VMs.

- **Instant File Recovery:** Instantly restore files and folders to their original location, to a custom location (local folder or CIFS/NFS share), or forward via email as an attachment.

- **Instant Object Recovery for Microsoft Exchange Server:** Instantly recover emails and other Exchange objects to the original location or to a custom location (local folder or CIFS share).

- **Instant Object Recovery for Microsoft Active Directory:** Instantly recover users, user groups and other AD objects to the original location or to a custom location (local folder or CIFS share).

- **Instant Object Recovery for Microsoft SQL Server:** Instantly recover tables and databases to the original location or to a custom location (local folder or CIFS share).

- **Universal Object Recovery:** Recover individual objects by choosing a recovery point and mounting VM disks from the backup directly to another machine.

- **Cross-Platform Recovery:** Export VM disks across platforms to recover VMware VMs to a Hyper-V environment and vice versa.

Ransomware Protection

With NAKIVO Backup & Replication, you can protect backups against new ransomware infections and improve backup reliability.

- **Air-Gapped Backups:** Keep backups and backup copies offline (tape, detachable NAS, USB drives, etc.) for ultimate ransomware protection.

- **Immutable Backups in Cloud:** Make backups and backup copies stored in Amazon S3, Azure Blob, Backblaze B2, and Wasabi immutable to protect them from ransomware and accidental changes.

- **Local Ransomware-Proof Repository:** Enable immutability for backups and backup copies sent to Linux-based local repositories.

- **Hardened VA/AMI:** Deploy the solution as a pre-configured VA or AMI running Ubuntu Server and protect backup data from deletion and encryption by ransomware.

Our Customers

CISCO™

SIEMENS

DHL

HONDA

Coca-Cola®

UNIVERSITY OF MARYLAND

DENVER THE MILE HIGH CITY

Radisson HOTELS & RESORTS

THE UNIVERSITY OF ARIZONA®

FUJIFILM

JOHNS HOPKINS UNIVERSITY

Verifone®

SAN FRANCISCO City

NAKIVO®

Disaster Recovery

With NAKIVO Backup & Replication, you can perform VM replication and orchestrate the disaster recovery process with the built-in Site Recovery functionality.

- **VM Replication:** Create and maintain VMware vSphere and Microsoft Hyper-V VM replicas, which are identical copies of source VMs.

- **Replication from Backup:** Create VM replicas directly from backups to reduce the load on the source host, free up valuable resources, and save time.

- **Amazon EC2 Instance Replication:** Create and maintain Amazon EC2 instance replicas, which are identical copies of your source instances.

- **Site Recovery:** Create disaster recovery workflows and perform scheduled non-disruptive recovery testing, planned failover, emergency failover, failback, and datacenter migration with one click.

- **Application Support:** Ensure the consistency of applications and databases, such as Microsoft Exchange Server, Microsoft Active Directory, and Microsoft SQL Server.

- **Replica Verification:** Instantly verify VMware vSphere and Microsoft Hyper-V VM replicas; get a report with screenshots of test-recovered machines.

Performance

With NAKIVO Backup & Replication, you can boost backup, replication, and recovery speeds by up to 2 times and reduce network load by as much as 50%.

- **Native Change Tracking:** Use native change tracking technologies (VMware CBT, Hyper-V RCT, Nutanix AHV CRT, Microsoft 365 delta query) to identify changes without reading the full source data and create faster incremental backups.

- **LAN-Free Data Transfer:** Use the HotAdd or Direct SAN Access modes to increase data transfer speeds and offload production networks.

- **Network Acceleration:** Increase performance in busy LAN and WAN environments with built-in network acceleration.

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

Administration

NAKIVO Backup & Replication provides a simple web interface and comes with great features to help you save time and resources on data protection activities.

- **Versatile Deployment:** Deploy as a virtual appliance/AMI, install on Linux or Windows OS, or on a NAS to create an all-in-one backup appliance.

- **Policy-Based Protection:** Automatically back up and replicate machines that match policy rules based on specified parameters (machine name, size, location, tag, etc.).

- **Calendar Dashboard:** View all past, current, and future jobs in a simple calendar view.

- **Overview Dashboard:** Get a status summary of all your data protection activities, solution components, and issues to address in simple widgets.

Customer Quotes

"NAKIVO Backup & Replication is simple and intuitive, it took me a little time to learn how to use it, and I didn't have to read manuals."

**Andrew Arensburger, IT Manager,
The University of Maryland**

"The amount of storage space reduction we got with NAKIVO Backup & Replication was truly awesome. We achieved 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.**

NAKIVO®

- **Role-Based Access Control:** Assign preset and custom roles and associated rights and permissions to users to apply the principle of least privilege.

- **Two-Factor Authentication:** Enable two-factor authentication (2FA) for NAKIVO Backup & Replication to prevent hackers from accessing your data protection activities.

- **Microsoft Active Directory Integration:** Integrate with Microsoft Active Directory and map user groups to NAKIVO Backup & Replication user roles.

- **Global Search:** Instantly find VMs, backups, replicas, jobs, repositories, Transporters, and other objects; act on search results.

- **Job Chaining:** Link jobs so they run one after another. For example, a successful VM backup job to a local storage destination can start a Backup Copy job to copy the newly created backups to a public cloud.

- **API:** Integrate NAKIVO Backup & Replication with monitoring, automation, and orchestration solutions via HTTP API.

- **Self-Backup:** Back up and recover system configuration (jobs, inventory, logs, settings, etc.).

- **Live Chat with Tech Support:** Get help without leaving the solution web interface.

VMware Monitoring

NAKIVO Backup & Replication provides a powerful set of tools for monitoring the VM infrastructure.

- **Complete Visibility:** Monitor CPU, RAM, and disk usage of VMware vSphere hosts and VMs, as well as disk usage of VMware vSphere datastores.

- **Comprehensive Analytics:** Get accurate and relevant results with real-time and historical data.

- **Efficient Administration:** Detect bottlenecks, investigate issues, and anticipate future needs.

- **User-Friendly Interface:** Readable layout for all the data available in the same console where you manage backup activities.

BaaS and DraaS

NAKIVO Backup & Replication provides a simple way for managed service providers (MSPs) to deliver backup as a service (BaaS) and disaster recovery as a service (DRaaS).

- **Multi-Tenancy:** Create multiple isolated tenants within one product instance and manage them from a single pane of glass.

- **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:** Access remote environments via a single port connection without requiring a VPN connection.

NAKIVO Awards

Gartner peerinsights™
★★★★★
5-star rating backup

Capterra
★★★★★
Top Performer - Server Backup Software 2021

Leader SUMMER 2021
Leader Summer 2021

TrustRadius
★★★★★
5-star rating backup

software.informer
★★★★★
Software Informer Editor's Pick

TechGenix.com Gold Award
★★★★
Techgenix Gold Award

vmworld 2018 GOLD AWARD DATA PROTECTION
Gold Award Data Protection

spiceworks
★★★★★
5-star rating backup

GetApp CATEGORY LEADERS 2022
Category Leaders 2022

System Requirements

Supported Environments

NAKIVO Backup & Replication can protect
the following platforms:

Virtual
- VMware vSphere v5.5– v7.0.3
- Hyper-V 2012, 2012R2, 2016, 2019, 20H2, 2022
- Nutanix AHV 5.15–5.20
- VMware Cloud Director v10.2.1 - v10.3.3.1

Microsoft 365
- Exchange Online, SharePoint Online,
  OneDrive for Business, Teams

Physical
- Windows Server 2012-2022 (21H2) (x64)
- Windows 10 Pro/Home (20H2-21H2) (x64)
- Windows 11 (21H2) (x64)
- Ubuntu (Server) v16.04-22.04 LTS (x64)
- Ubuntu (Desktop) 18.04-22.04 LTS (x64)
- Red Hat Enterprise Linux v7.0–9.0 (x64)
- SUSE Linux Enterprise v12 SP1 - v15 SP4 (x64)
- CentOS v7.0–8.4 (x64)
- CentOS Stream 8 (x64)

Amazon Elastic Compute Cloud (EC2)
- All AWS regions
- All instance types
- Virtual private cloud (VPC) and Classic

Applications
- Oracle Database 11g R2–19c

Deployment Options

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

Windows
- Windows Server 2012-2022
- 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 15 SP1-SP4 (x64)
- SUSE Linux Enterprise 12 SP3–SP5 (x64)
- CentOS Linux 7.0–8.4 (x64)
- CentOS Stream 8 (x64)

NAS
- QNAP QTS v4.3-v5.0
- QNAP QuTS Hero h4.5.3-v5.0
- Synology DSM v6.0-v7.1
- ASUSTOR ADM v3.5-v.4.1
- FreeNAS 11.3
- TrueNAS CORE 12-13
- NETGEAR ReadyNAS OS v6.9–v6.10.x
- WD MyCloud OS v5

Storage Integration

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

- HPE StoreOnce system v3: version 3.18.18 and newer
- HPE StoreOnce system v4: version 4.2.3 - 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 v1.8.0-1.8.4
- HPE 3PAR 3.1.2 and higher
- HPE Nimble OS 5.0.2 and above

Hardware

NAKIVO Backup & Replication requires the
following hardware configuration:

- **Server:** 2 CPU cores, 4 GB RAM
- **NAS:** Refer to System Requirements
- **Raspberry Pi:** Refer to System Requirements

About NAKIVO

NAKIVO is a US-based corporation dedicated to delivering the ultimate backup, ransomware protection and disaster recovery solution for virtual, physical, cloud and SaaS environments. As one of the fastest-growing backup and ransomware recovery software vendors in the industry, NAKIVO boasts 25 consecutive quarters of double-digit growth, 5-star online community reviews, 98% customer satisfaction with support and a network of over 7,000 partners worldwide. Over 23,000 customers in 173 countries trust NAKIVO with protecting their data, including major companies like Coca-Cola, Honda, Siemens and Cisco.