NAKIVO Backup & Replication v8.5
#1 Solution for Data Protection and Site Recovery

Data Protection and Recovery

Backup for VMware, Hyper-V, Nutanix AHV, and AWS EC2

NAKIVO Backup & Replication provides image-based, application-aware backup for VMware, Hyper-V, Nutanix AHV, and AWS EC2 environments. This means that NAKIVO Backup & Replication can capture all VM data, while ensuring the consistency of applications and databases running in VMs, such as Microsoft Exchange, Active Directory, SQL, SharePoint, etc.

Policy-Based Data Protection

With NAKIVO Backup & Replication, you can create data protection policies which regularly scan your infrastructure and automatically protect VMs that match policy rules. The rules can be based on the VM name, tag, size, location, power state, configuration, or a combination of these parameters.

Backup Copy Offsite and to the Cloud

VM backups can be damaged, get accidentally deleted, or become unavailable, leaving you without any way to restore your data. Backup copy jobs allow you to create copies of your backups and send them to a remote site or a public cloud. You can choose to keep a mirrored copy of a backup repository or fine-tune how your backups are copied.

Backup Size Reduction

NAKIVO Backup & Replication can automatically exclude swap data from VM backups, deduplicate backups across the entire repository, and compress data to minimize backup size. This can dramatically reduce your storage space requirements.

Instant Recovery for VMware and Hyper-V

With NAKIVO Backup & Replication, you can instantly recover VMs, files, and application objects — Microsoft Exchange, Active Directory, and SQL are supported — with the recovery being performed directly from compressed and deduplicated VM backups. In addition, you can use the Universal Application Object Recovery feature to instantly recover objects of any other application by mounting disks from a backup directly to your production VMs.

Cross-Platform Recovery

With NAKIVO Backup & Replication, you can export VM disks across platforms in order to recover VMware VMs to a Hyper-V environment and vice versa.

Highlights

✓ Delivering great data protection software since 2012
✓ “Best of VMworld 2018” Gold Award for the Data Protection category
✓ Over 10,000 deployments across EMEA, the Americas, and Asia
✓ 5-star online community reviews
✓ 97.3% customer satisfaction with support
✓ Largest customers protect 7,000+ VMs, 200+ sites
✓ Over 3,600 channel partners in 140 countries

Datasheet
DR Orchestration

VM Replication

NAKIVO Backup & Replication enables you to create and maintain VMware and Hyper-V VM replicas, which are identical copies of your source VMs. The VM replicas can be created from both source VMs and existing VM backups to reduce the load on your production environment. The VM replicas remain in the powered-off state until recovery is started.

Site Recovery

The Site Recovery feature enables you to create recovery workflows and perform scheduled non-disruptive site recovery testing. This allows you to perform planned failover, emergency failover, failback, and datacenter migration. Your custom workflows can include steps for a graceful source VM shutdown, final VM replication, replica VM re-IP according to predefined rules, network mapping, staged replica VM power on, custom scripting, email notifications, and so on. Once fully set up, a recovery workflow can be run in a single click.

Reliability

Screenshot Verification

NAKIVO Backup & Replication can near-instantly verify VMware and Hyper-V VM backups as well as replicas. After a job is complete, NAKIVO Backup & Replication can instantly recover the VM, wait until the OS has booted, make a screenshot of the OS, discard the test-recovered VM, and send you a report with the screenshot via email. This way you have proof that your VMs can be recovered from their backups.

Automated SQL and Exchange Log Truncation

Microsoft SQL and Microsoft Exchange record all database changes in transaction log files. These files grow over time and can eventually consume all available free space on a disk, crashing the server. NAKIVO Backup & Replication can automatically remove transaction log files from the source VMware and Hyper-V VMs after a successful VM backup or replication is performed. This prevents the log files from growing while you keep a copy in the backup or replica, should you ever need to restore your data.

Self-Backup

By default, NAKIVO Backup & Replication performs a self-backup once a day, and stores this backup in available backup repositories. If the machine that is running NAKIVO Backup & Replication becomes unavailable, you can install a new instance of the product in under a minute and restore the system configuration (including all of your jobs, inventory, settings, etc.) from a self-backup.

Encryption in Flight and at Rest

With NAKIVO Backup & Replication, you can encrypt your data in flight and at rest. NAKIVO Backup & Replication uses AES 256 encryption, which is the industry standard for military and financial institutions.
Performance

Fast VM Backup and Replication

NAKIVO Backup & Replication uses native change tracking technologies (VMware CBT, Hyper-V RCT, Nutanix AHV CRT) to instantly identify modified data, and only transfers the changes to the destination. In addition, NAKIVO Backup & Replication can use LAN-free data transfer modes (Hot Add or Direct SAN Access) to increase data transfer speed while offloading production networks. You can also enable the built-in Network Acceleration feature to further increase performance in busy LAN and WAN networks. These features can boost VM backup speed by up to 2X as well as reduce network load by as much as 50%.

Deduplication Appliance Support

NAKIVO Backup & Replication offers a special type of backup repository that is optimized for deduplication appliances such as NEC HYDRAstor, EMC Data Domain, HP StoreOnce, and Quantum DXi. When tested in a customer environment on an NEC HYDRAstor device, the new repository improved VM backup performance by 53X as compared to the regular backup repository, with the backup speed reaching 3.2 GB/s.

Advanced Bandwidth Throttling

NAKIVO Backup & Replication was designed to be fast, transferring data at the maximum available speed. However, if your networks are already fully loaded, you may want to limit the speed of data transfer by using the Advanced Bandwidth Throttling feature. NAKIVO Backup & Replication allows you to set up bandwidth rules in order to make sure that your jobs do not exceed the bandwidth limit.

Ease of Use

NAKIVO Backup & Replication provides a simple web interface and comes with several features to help you save time and energy:

- **Calendar Dashboard** displays all past, current, and future backup jobs in a simple calendar view
- **Global Search** allows you to find and act on VMs, backups, replicas, jobs, repositories, transporters, and other objects
- **Auto-Update** allows for updating the product in a single click
- **Flexible Job Scheduler** lets you add multiple schedules to a single job
- **Live Chat with Tech Support** allows you to get help without leaving the product interface

BaaS and DRaaS

Multi-Tenancy allows you to create multiple isolated tenants within one product instance, and manage them from a single pane of glass. This way, you can introduce VM backup-as-a-service to your clients more easily and cost-effectively. Tenants can access the Self-Service Portal to offload backup, replication, and recovery tasks from the service provider.
System Requirements

Hardware

- **VM/physical server**: 2 CPU cores, 4 GB RAM
- **NAS**: Refer to System Requirements for a list of supported NAS models by ASUSTOR, NETGEAR, QNAP, Synology, and Western Digital.
- **Raspberry Pi**: Refer to System Requirements for a list of supported models.

Operating Systems

- **Windows**:
  - Windows Server 2008 R2 – 2019
  - Windows 7 – 10 Professional (x64)
- **Linux**:
  - Ubuntu 12.04 – 18.04 Server (x64)
  - Red Hat Enterprise Linux 6.3 – 7.4 (x64)
  - SUSE Linux Enterprise Server 11 SP3 – 12 SP3 (x64)
- **NAS**:
  - ASUSTOR ADM v3.0 and above
  - FreeNAS 11.2 and above
  - NETGEAR ReadyNAS OS v6.9 and above
  - Synology DSM v6.0 and above
  - QNAP QTS v4.3.3 and above
  - WD MyCloud v3 and above

Supported Environments

- **AWS EC2**
- **Microsoft Hyper-V** 2012 – 2016
- **Nutanix AHV** 5.10 (LTS)
- **VMware vSphere** v4.1 – v6.7, ESXi 4.1– 6.7

About NAKIVO

The winner of a “Best of VMworld 2018” and the Gold Award for Data Protection, NAKIVO is a US-based corporation dedicated to developing the ultimate VM backup and site recovery solution. With 20 consecutive quarters of double-digit growth, 5-star online community reviews, 97.3% customer satisfaction with support, and more than 10,000 deployments worldwide, NAKIVO delivers an unprecedented level of protection for VMware, Hyper-V, and Amazon EC2 environments. As a unique feature, NAKIVO Backup & Replication runs natively on leading storage systems including QNAP, Synology, ASUSTOR, Western Digital, and NETGEAR to deliver up to 2X performance advantage. The product also offers support for high-end deduplication appliances including Dell/EMC Data Domain and NEC HYDRAstor. Being one of the fastest growing data protection software vendors in the industry, NAKIVO provides a data protection solution for major companies such as Coca-Cola, Honda, and China Airlines, in addition to working with over 3,600 channel partners in 140 countries worldwide.

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