

NEC-NAKIVO SMB VM Backup Appliance

Complete Data Protection for virtualized environments

With the ever growing amounts of data in virtualized environments, today's organizations are faced with the frequent need of storage infrastructure expansion and are increasingly looking for cost-effective storage and protection of their rapidly expanding data.



The NEC-NAKIVO SMB VM Backup Appliance is a fully integrated ready-to-use data protection solution in which NEC and NAKIVO – with SMBs and branch offices of larger enterprises in mind – have pre-designed and configured:

- > NEC Hardware with no single point of failure
- > NEC HYDRAsstor Virtual Appliance
- > NAKIVO Backup & Replication

At a Glance

- > Highly Scalable Capacity-optimized VM Data Protection Solution
- > Efficient and excellent Backup and Reliable Recovery
- > Fully tested, secure and ready to use integrated solution
- > Ideally suited for SMBs and larger enterprise Branch Offices
- > Flexible data resiliency for growing virtualized environments
- > Complete protection for VMWare Hyper V and AWS EC2 environments
- > Optimized Storage Space Utilization (up to 95% backup storage saving)
- > Outstanding and easy scale-out to +300 TB of logical data
- > Plug & Play deployment with pre-configured and built-in components
- > Extremely competitive pricing and flexible licensing model

Solution

Highly Scalable Capacity-optimized Data Protection Solution

The NEC-NAKIVO SMB VM Backup Appliance offers a complete set of data protection features, including native VM backup, backup copy to cloud, support for applications and databases,



automated VM failover with re-IP, instant backup verification, instant VM recovery, instant recovery of files or application objects, site recovery automation, and industry-leading inline data deduplication.

Leveraging the deduplication features of NEC HYDRAsstor® grid storage system and of NAKIVO Backup & Replication, provides the fastest performance possible, and fully uses the bandwidth available in customer environments. Furthermore, HYDRAsstor's RepliGrid WAN-optimized Replication ensures only unique data is transferred to the disaster recovery (DR) site, resulting in a minimum level of data transfer and quick VM recovery at the DR site. It also offers in-flight encryption capabilities to protect data from unauthorized access during transfer across remote sites.

The combination of NEC's HYDRAsstor grid storage system and NAKIVO Backup & Replication allows expansion both vertically, by providing more resources to the product, and horizontally by

distributing product components within the same location or across multiple locations.

HYDRAsstor can be expanded and refreshed with no data migration by incorporating intermix of newer generation hardware into the same grid system. HYDRAsstor maximizes cost efficiency with DataRedux™ inline global deduplication and compression, as well as high availability and node-level resiliency with erasure-coded data protection. HYDRAsstor also provides investment protection with online upgrade/ expansion, as well as in-place technology refresh with intermix of multi-generation nodes within the same grid system.

NAKIVO Backup & Replication performs image-based backup of VMware VMs which means that an entire VM is captured during backup, including all its disks and configuration files which ensure the consistency of applications and databases (such as Exchange, Active Directory, MS SQL, SharePoint) running in VMs.

Efficient Backup and Reliable Recovery

The combination of NAKIVO and HYDRAsstor system enables organizations to simplify backup administration and optimize the



capacity utilization. NAKIVO provides easy to use management capabilities for data backup, restores and recovery. HYDRAsstor's DataRedux and RepliGrid technologies compliment this by greatly reducing the capacity requirements and network utilization.

NAKIVO also provides great features that improve VM backup speed, such as forever-incremental backups with CBT/RCT, LAN-free Data Transfer, and Network Acceleration. While backup deduplication is turned on by default with NAKIVO but to utilize more efficient hardware based deduplication, customer can disable it and use HYDRAsstor's global inline data deduplication and compression.

NAKIVO Backup & Replication integrated with HYDRAsstor provides the ability to instantly boot VMs directly from compressed and deduplicated VM backups. This way, customer can recover VMs in seconds, without waiting for full restore from backup files. Once a VM is running, customer can migrate it to production for permanent recovery.

Efficient, flexible data resiliency for growing virtualized environments

To overcome the performance and reliability problems of traditional RAID—problems that are becoming more pronounced with the growing virtualized environments— HYDRAsstor has employed erasure-coded data resiliency.

The default mode protects against three concurrent failures (compared with two for RAID 6) but is user configurable from one to six depending upon the SLA and application requirements. With erasure coding, only data is reconstructed, rather than entire drives and the data is reconstructed across multiple spindles.

The fact that you have VMware backups doesn't mean that you can recover from them. The only reliable way to ensure that you can recover from your backups is to perform test recoveries. After each backup job run, NAKIVO Backup & Replication can automatically and near-instantly verify all created backups and send you a report with OS screenshots of test-recovered VMs.

About NEC Corporation - NEC Corporation is a leader in the integration of IT and network technologies that benefit businesses and people around the world. By providing a combination of products and solutions that cross utilize the company's experience and global resources, NEC's advanced technologies meet the complex and ever-changing needs of its customers. NEC brings more than 100 years of expertise in technological innovation to empower people, businesses and society. For more information, visit NEC at <http://www.nec.com>

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