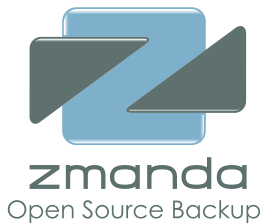


Fast, Efficient Backups and DR

Capacity-optimized Backup with Zmanda's Amanda Enterprise and NEC HYDRAsstor Grid Storage System



At a Glance

- Highly Scalable Capacity-optimized Storage
- Simplified Backup Management
- Vendor Neutral Backup Format
- Complete Backup and DR solution

Overview

Zmanda is a leading provider of backup and disaster recovery solutions. Zmanda's products include: Amanda Enterprise (based on the popular open source Amanda project), Zmanda Cloud Backup, and Zmanda Recovery Manager for MySQL. Zmanda's technologies protect more than one million systems worldwide.

HYDRAsstor is NEC's enterprise grid storage platform architected, designed and optimized to address the challenges of long-term data. NEC HYDRAsstor allows you to effortlessly deploy and manage new technology without manual data migration, provisioning, forklift upgrades, application downtime or data loss.

Full suite of Zmanda products are evaluated with HYDRAsstor, offering customers a modern, fast and efficient backup and disaster recovery solution. Zmanda backup software exploits key features of NEC HYDRAsstor, including efficient inline global deduplication and WAN-Optimized replication. Enterprises utilizing HYDRAsstor grid storage platform in conjunction with Zmanda backup software will maximize storage capacity utilization, prevent I/O bottlenecks, and optimize overall backup processing capability.

Solution

Highly Scalable Capacity-optimized Storage

The NEC HYDRAsstor's unique grid architecture provides independent, unrestricted linear scalability for both capacity and performance while delivering inline global deduplication across the entire data center.

Simplified Backup Management

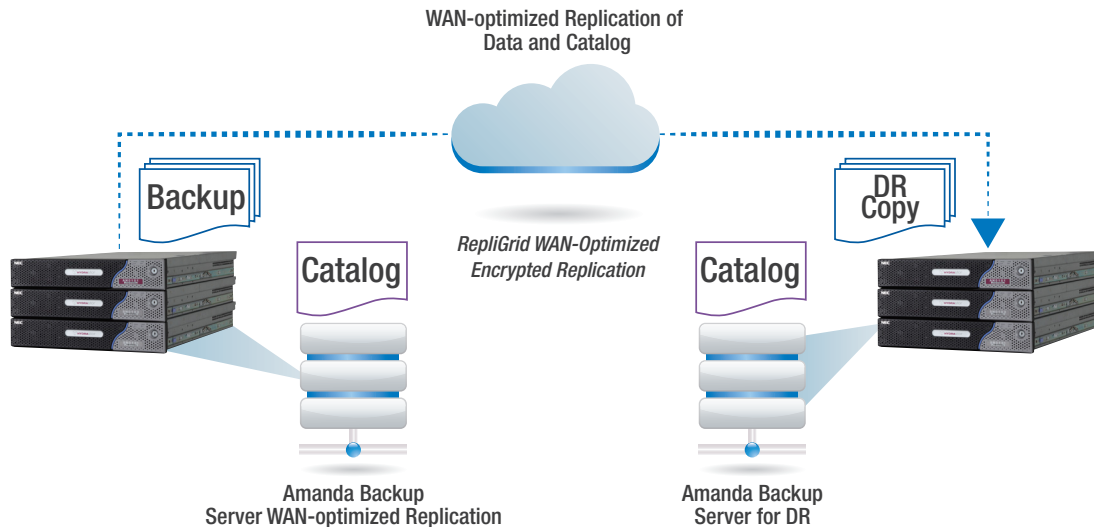
Zmanda's Amanda Enterprise solution provides users with a simple to use intuitive interface for managing all backup jobs. Amanda Enterprise users can easily configure HYDRAsstor as backup storage.

Vendor Neutral Backup Format

Amanda Enterprise stores the backup images in highly durable standard formats, allowing backed up data on one platform to be recovered from a completely different platform.

Complete Backup and Disaster Recovery Solution

Amanda Enterprise can efficiently backup data utilizing HYDRAsTOR's global inline deduplication feature and can also provision for disaster recovery by managing data at remote sites using HYDRAsTOR's RepliGrid WAN-optimized replication technology.



Zmanda HYDRAsTOR Backup and DR Solution

Key Features and Benefits

HYDRAsTOR DataRedux™ – Inline global deduplication	Users of Zmanda software benefit from capacity optimization within backup sets and across backup sets by leveraging HYDRAsTOR DataRedux distributed inline global deduplication. It reduces the capacity needs by 95% or more.
WAN-optimized Replication based Copy Services	WAN-optimized Replication transmits only unique compressed data chunks across the network using HYDRAsTOR RepliGrid™ technology. Deduplication and compression are both performed inline for maximum efficiency reducing network bandwidth utilization by up to 250:1. With optional in-flight data encryption, data can be protected from unauthorized access during the transfer.
HYDRAsTOR DynamicStor™ – Dynamic Provisioning for Efficient Utilization	DynamicStor virtualizes all available resources, and dynamically allocates storage capacity as needed. DynamicStor frees storage administrators from time-consuming configuration and planning, enabling them to quickly begin storing data.
HYDRAsTOR Distributed Resilient Data™ (DRD) – Advanced Erasure-coded Data Resiliency	DRD delivers better protection and faster data rebuild than traditional RAID with less capacity or processing overhead. With the system default level-3 resiliency, HYDRAsTOR can tolerate up to three concurrent disk drive failures while maintaining normal I/O.
Vendor Neutral Backup Format	Zmanda stores backup images in durable standard formats which are vendor neutral. Backup data can be restored from different platforms without getting locked in to a vendor specific storage format.

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