NetApp®

SYSTEMS

NETAPP NEARSTORE® VTL

KEY BENEFITS

Dramatically faster backup and restore

Reduces VTL storage costs by up to 67%

Reduces backup management costs

Uses 50% fewer physical tapes than other VTL solutions

Decru DataFort® options for encrypting sensitive data

High-performance backup and recovery solutions for the enterprise data center.

For most organizations, backing up to tape remains the primary method for protecting critical business data. However, as backup windows continue to shrink and restore time objectives become more demanding, many are discovering that tape systems alone can no longer meet their data protection requirements. To address this problem, companies are seeking disk-based solutions that can increase backup and restore performance yet also leverage the existing investment in tape processes and infrastructure.

Disk-based backup is now widely accepted as superior to tape for backup and restore performance, and Virtual Tape Libraries (VTLs) have emerged as the solution that provides the best combination of performance and seamless integration for existing tape environments. As a result, storage managers are increasingly faced with the issue of selecting a VTL solution that can address all of their backup needs, including performance, capacity, ease of use, cost of ownership, security, and interoperability with existing tape libraries.

NEARSTORE VTL

The NearStore VTL is a disk-based storage system that appears like a tape library to a backup application but provides the superior reliability and performance of disk technologies. The VTL backup solution complements conventional tape drives and libraries by seamlessly inserting disk into the backup process, allowing existing tape libraries to continue to be used for the creation of physical tapes for off-site storage.

NetApp VTL solutions are designed for backup and recovery in the data center and provide a powerful combination of performance, scalability, and cost savings for open systems storage environments. The NearStore VTL300, VTL700, and VTL1400 systems deliver 50% to 67% cost savings by using high-speed data compression to increase storage capacity and performance. When data compresses at the industry accepted standard of 2:1, savings of 50% are achieved, and when data compresses at 3:1, there are additional increases in both cost savings and performance.

Developed specifically to address the requirements of backup administrators, NearStore VTL systems deliver the benefits of disk-to-disk backup without introducing additional management burdens. A comprehensive solution, the NearStore VTL provides multiple options for creating off-site tapes, restoring data, and encrypting sensitive corporate data.

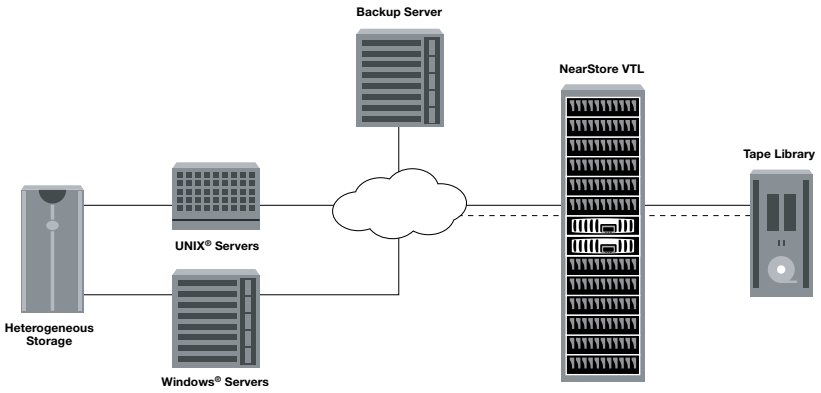

Figure 1) Optimized backup performance with NearStore VTL.

CHALLENGE	NEARSTORE VTL SOLUTION
Cost-effective D2D backup for enterprise data centers	High-performance disk compression reduces the cost of enterprise-class disk-to-disk backup by 50% to 67%. The NearStore VTL300, VTL700, and VTL1400 systems can double to triple the amount of backup data stored on disk while delivering the high throughput and tape integration required in the most demanding storage environments.
Backups take too long	The NearStore VTL provides dramatic improvements in backup performance by using high-speed hardware compression and self-tuning technology that automatically and continuously assigns backup streams to the most available disks as data loads change. The NearStore VTL can support sustained write throughput performance of over 6TB/hour.
Restores are slow	The NearStore VTL significantly improves restore performance with the speed and reliability of online disk. Access to data is immediate because mechanical delays found in tape libraries are eliminated. Tape passthrough mode accelerates restores from physical tape by making data immediately available to the backup application. The NearStore VTL can support sustained read throughput performance of over 6.5TB/hour.
Unreliable backups and restores	VTL appliances virtually eliminate backup and recovery failures by using extremely reliable RAID-protected storage to safeguard against the loss of a single disk drive. In addition, NearStore VTL employs a journaled object store (JOS) that writes data to disk in a self-describing format that is resilient against even the most catastrophic system failure.
Ongoing operational costs for tape-based backups	Reliable D2D backups to a NearStore VTL often enable daily incremental backups to be kept on disk rather than written to tape, reducing the size of the physical tape library required as well as the number of tape cartridges. NearStore VTL tape smart sizing technology also reduces tape costs by as much as 50% compared to other VTLs.
Backup resources not shared effectively	Create multiple, dedicated virtual libraries on a single NearStore VTL to optimize performance for each server and backup environment. NearStore VTL systems can even be shared among backup servers running different backup application software.
Not enough staff to install and manage new systems	The NearStore VTL delivers all of the benefits of disk-based backup without the need for additional management or administration. Designed for backup administrators, the easy-to-manage appliance fits into existing workflows developed for tape-based systems. VTL design and implementation services are also available to ensure a smooth deployment into production backup environments.

NetApp®

www.netapp.com