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Reduce the Cost of Storage

Symantec NetBackup™ 7

Overview

This solution overview will outline the challenges associated with managing and protecting the overwhelming amount of data that is created on a daily and even hourly basis. In these tough economic times, customers face a tough challenge: making do, and making the most, of their already-purchased resources—specifically, their hardware purchases. In the face of skyrocketing digital asset growth, it is all the more critical that their plan for the year maximize overall utilization of already-purchased hardware.

The Symantec NetBackup platform provides solutions that help customers grow their data capacity cost-effectively and intelligently, including deduplication solutions from the remote office and branch office to the data center, as well as virtual machines.

Deduplicate everywhere to reduce cost of storing information

Deduplication has the power to transform information management: it is great for backup; it is great for archiving; and it even makes server virtualization manageable. Deduplication should live in every part of the information architecture. But ultimately, Symantec recommends deduplicating data as close to the source as possible. Deduplicating information closer to the source will decrease network traffic and reduce the storage footprint, helping to make backups more successful.

Reducing the Cost of Storage

- Dedupe at the Source, reduce information earlier in the life cycle
- Reduce the Cost of Storage, reuse what you have
- Archive for long term retention, recycle backup storage for DR



Deduplicate Everywhere



Integrate deduplication into backup and archiving



Integrate with Deduplicated Storage with OpenStorage

Deduplicate in the data center

NetBackup client deduplication at the source—Removing redundant data globally as close to the source as possible maximizes the benefits of deduplication. NetBackup 7 offers source deduplication at the client, built right into the product for fast, secure, efficient backup and recovery. Client deduplication removes redundant data at the source, which leads to lower CPU, I/O, and memory utilization compared to a traditional backup, thereby freeing up more client resources for production services in both physical and virtual environments.

Source dedupe delivers:

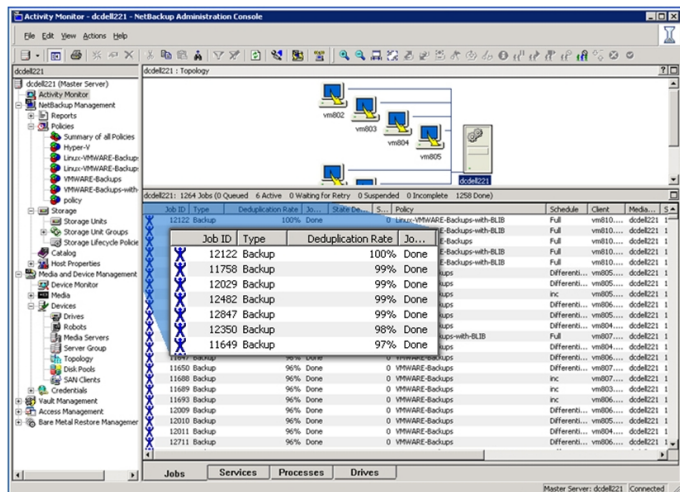
- Up to 10x faster backups
- Up to 60 percent reduction in disk I/O
- Up to 70 percent reduction in CPU
- Up to 75 percent reduction in memory

Solution Overview: Data Protection Reduce the Cost of Storage

NetBackup media server deduplication at the target—NetBackup 7 has target deduplication built right into the media server. With no separate install required, setup is as easy as clicking a box. Unlike deduplication appliances, which carry an extra layer of complexity because they are not built into the backup application, NetBackup 7 media server deduplication is embedded into NetBackup; no dedicated server or storage is needed. The NetBackup media server offers inline deduplication by processing data streams in flight; requires no extra staging disks for processing, which leads to more optimal use of storage. What's more, NetBackup storage lifecycle policies allow post-process deduplication.

Media server dedupe delivers:

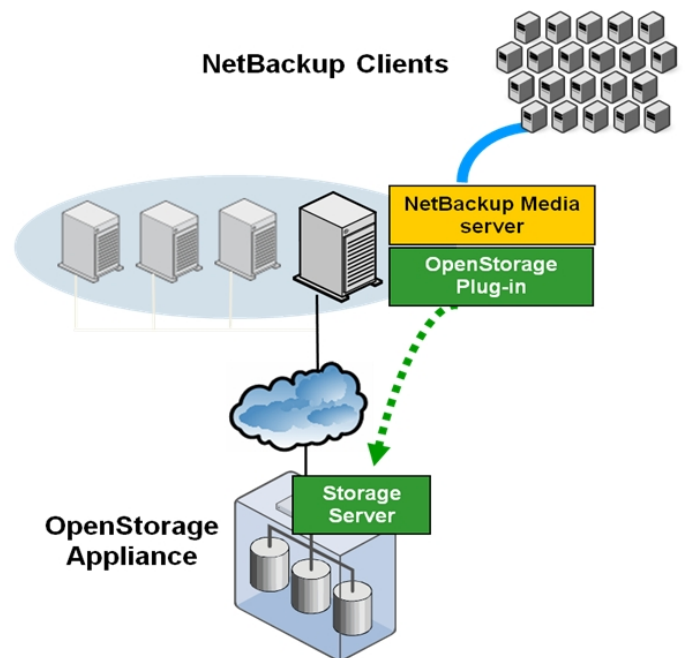
- Up to 30 percent increase in backup speeds
- Up to 20x reduction in storage
- Cost reduction by utilizing commodity disk and servers



Job ID	Type	Deduplication Rate	Status	Policy	Schedule	Client	Media
12122	Backup	100%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221
11758	Backup	99%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221
12029	Backup	99%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221
12462	Backup	99%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221
12847	Backup	99%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221
12350	Backup	98%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221
11649	Backup	97%	Done	VMWARE-Backups-with-RLB	Full	vm010...	dd04221

Deduplicate with appliances, using NetBackup OpenStorage (OST)—An OpenStorage application program interface (API) for NetBackup is available through our STEP partner program. There is no need to emulate tape with virtual tape libraries (VTLs), because the OST API allows

NetBackup to see disk as disk—which enables users of intelligent disk appliances who use NetBackup to get better integration. Finally, day-to-day management can be executed from the NetBackup interface, enabling greater ease of use and making it possible to leverage the advanced feature set of the intelligent disk appliance, such as deduplication, replication, virtual synthetics, direct to tape, and—new in NetBackup 7—client direct backups.



Deduplicate in remote and branch offices

In remote and branch offices, the traditional backup infrastructure and process are not sufficient. These outdated processes are typically decentralized from the data center and use tape-based data protection as the preferred medium. NetBackup PureDisk™ is WAN optimized, making it ideal for large and small remote sites.

NetBackup PureDisk delivers:

- Decreased data footprint for remote and branch offices
- Centralized data protection on disk

Solution Overview: Data Protection

Reduce the Cost of Storage

- WAN-optimized deduplication
 - A Web-based user interface for remote office data management and recovery
-

Deduplicate in the archive

Data reduction for primary storage is equally important. This principle is consistent with the Symantec strategy of deduplicating as close to the source as possible. The solution for primary data deduplication is Symantec Enterprise Vault™. Enterprise Vault uses deduplication to share commonly repeated data between items that have been archived, regardless of the original content source (Exchange™, SharePoint™, file servers, etc.). Enterprise Vault integrates with NetBackup to deliver a backup and archiving solution that leverages deduplication at many points in the process.

NetBackup 7 agent for Enterprise Vault feature highlights;

- **Tighter integration with NetBackup** – The NetBackup 7 Enterprise Vault agent supports Enterprise Vault 8.0. The EV Migrator is now included in NetBackup, no separate download is required.
 - **Leverage snapshot technology** — The backup of the snapshot is done quickly and efficiently eliminating the need for manual scripts or the manipulation of registry settings.
 - **Effective disaster recovery** — Centrally manage the disaster recovery process of the Enterprise Vault partitions and databases.
-

Summary

Symantec believes deduplication should be everywhere, at the client or the target. Symantec backup and archiving

solutions have deduplication built in, allowing customers to put deduplication closer to the source to recognize the benefits of deduplication where they need it the most.
