



NetApp®
Go further, faster



Software

NetApp SnapVault

Fast, reliable disk-to-disk backup

KEY BENEFITS

Disk-to-Disk Backup

Fully integrated with Data ONTAP®, Snapshot™, and FAS deduplication to provide point-in-time backup copies in native format.

Faster Backup

Reduce backup times from hours or days to minutes.

More Reliable Backup

Consistently achieve 100% success rates.

Smaller Backup Footprint

Transfer only new or changed blocks to minimize network traffic and reduce disk capacity requirements by 90% or more.

Reduced Tape Usage

Store months or years of backups online, reducing or even eliminating tape usage.

Fast Recovery

Native format backups enable end-user “browse and restore” and provide fast application and virtual machine recovery.

Multiuse Backup Copies

Use SnapVault® backup copies for dev, test, discovery, reporting, compliance, cloning, or DR replication.

THE CHALLENGE

Protect more data in less time

Enterprise data backups take too long; they can be unreliable; they’re time consuming to manage; and they require considerable investment in network, server, and hardware infrastructure. Meanwhile, data volumes keep growing, tape costs keep increasing, and backup windows keep shrinking.

THE SOLUTION

Replication-based D2D backup with NetApp SnapVault

SnapVault solves these problems with replication-based disk-to-disk backup. It creates full point-in-time backup copies on disk. It uses a block incremental methodology: After the first full backup, it transfers and stores only new or changed blocks. This minimizes data transfer over the wire. It also reduces the backup footprint—much like dedicated deduplication appliances. Each “block incremental” backup is a full backup copy—but only the new or changed blocks are added to the footprint.

With SnapVault, backups can finish in minutes instead of hours or days. They can achieve 100% success rates. Weeks, months, or even years of backups can be kept online. And disk capacity requirements can be reduced by 90%.

SOLUTION INTEGRATION

Snapshot, dedupe, SnapManager, and SnapMirror

SnapVault is fully integrated with the NetApp® Data ONTAP storage operating system. It requires no external servers. SnapVault extends the value of NetApp Snapshot copies by turning them into long-term backup copies. These are stored in native format, so users can drag and drop to restore files without administrator help. Restores are much faster, since they’re coming off of disk in native format. SnapVault can leverage FAS deduplication to further shrink the backup footprint. It also integrates with SnapManager® for Microsoft® Exchange, SharePoint® and SQL Server®, Oracle®, SAP®, and virtual infrastructure for application consistent recoveries. SnapVault copies can also be leveraged for testing, development, e-discovery, and reporting—or replicated using SnapMirror® for disaster recovery.

POLICY-DRIVEN CENTRALIZED MANAGEMENT

Protection Manager can provide centralized SnapVault administration and reporting. Protection Manager automates policy and job creation, data discovery, backup provisioning, and job monitoring, coordinating across all Snapshot, SnapVault, and SnapMirror operations.

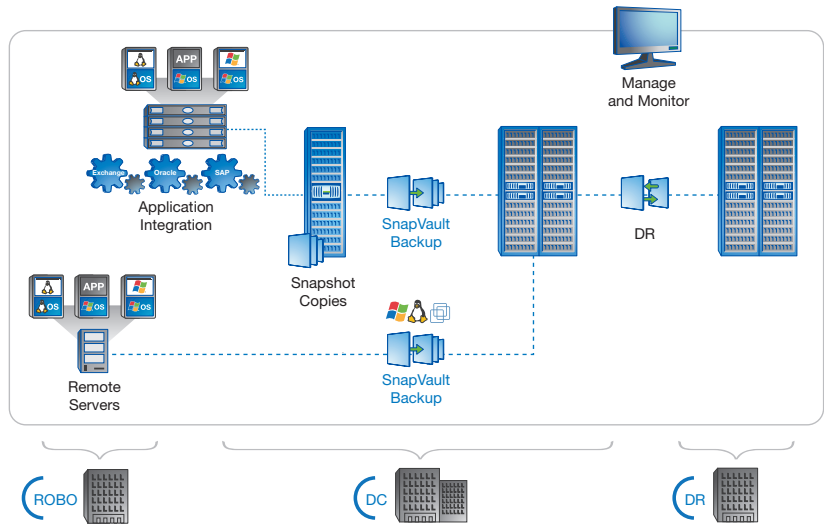


Figure 1) Application-integrated data protection with SnapVault.

SnapVault backs up a primary FAS system to a secondary FAS system. Open Systems SnapVault backs up remote servers to the secondary FAS system. Application-specific SnapManager provides application consistency. SnapMirror replicates backup data to the DR site. Protection Manager coordinates all replication-based data protection operations.

EXTENDING SNAPVAULT TO HETEROGENEOUS STORAGE

Open Systems SnapVault and NetApp V-Series

Open Systems SnapVault (OSSV) can back up file system data from Windows®, Linux®, UNIX®, or VMware® servers to NetApp FAS systems. OSSV is particularly suited to centralize remote office backups. The NetApp V-Series open storage controller brings SnapVault disk-to-disk backup capabilities to heterogeneous storage. OSSV and V-Series deliver the benefits of replication-based backup to just about any server or competitive storage array.

LOWER TOTAL COST OF BACKUP

SnapVault disk-to-disk backups can reduce backup times, minimize storage and network requirements, increase reliability, and reduce tape overhead. Multiple SnapVault and OSSV source systems can back up to a single secondary system to centralize backup operations and resources. SnapVault

can also eliminate the need for additional investment in backup infrastructure and dedicated deduplication appliances. Analyst firm Oliver Wyman has shown that these benefits can combine to reduce overall backup costs up to 63% over traditional tape environments. For faster backups, faster restores, and lower total cost of backup, turn to NetApp SnapVault.

SnapVault can:

- Reduce your total cost of backup
- Provide faster application, virtual machine, or user-driven file restores
- Centralize data center and remote office backups
- Reduce or eliminate tape

CUSTOMER TESTIMONIALS

Affymetrix

- \$500,000 administrative savings
- Backup time reduced: two days to 30 minutes
- Backup reliability increased: 75% to 99%+

NetApp creates innovative storage and data management solutions that help you accelerate business breakthroughs and achieve outstanding cost efficiency. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

BT

- 3,100 servers consolidated to 134 with VMware and NetApp
- Backup time reduced: 96 hours to 30 minutes

Synopsys

- 1PB backed up across 80 offices, six design centers, 5,000 employees
- 100% successful backups and restores

SNAPVAULT SUPPORTED SYSTEMS

- NetApp storage systems
- NetApp V-Series fronting storage systems from other vendors
- IBM N series storage systems

SNAPVAULT SUPPORTED PLATFORMS

- HP-UX
- IBM AIX
- Linux
- Microsoft Windows 2000/2003/2008
- Solaris™
- VMware ESX

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