

# VERITAS NetBackup™ 6.0 Disk-Based Data Protection

## HIGH PERFORMANCE DATA PROTECTION

VERITAS NetBackup™ software's disk-based data protection solutions offer near instant data recovery while improving backup performance and reducing exposure to data loss.

The combination of escalating data growth and compliance – driven retention requirements has organizations struggling to meet available backup windows, and hinders their ability to recover critical data in a timely manner. This overwhelming impact on traditional data protection infrastructures forces less frequent or missed backups, provides outdated restore points, and increased risk of data loss.

NetBackup software's disk-based data protection solutions help organizations transcend the limitations of traditional tape-based backup and recovery to take advantage of the following benefits:

**Performance** – Leverage random access disk capabilities and granular tuning parameters, while eliminating the mounting and positioning delays. Enable disk-based snapshots for instant, low-impact protection.

**Availability** – Online, always available storage. Demanding operations no longer have to wait in line for resources. Backups, restores, and duplications can be performed simultaneously. Advanced availability features include the ability to import disk images and failover between storage groups and media servers.

**Management** – Reduce media management complexities, while enabling flexible scheduling and configurations. Proactively manage disk capacity with high / low watermarks and thresholds.

NetBackup Disk-Based Data Protection Solutions	
Backup to Disk	<ul style="list-style-type: none"> <li>Leverages the performance benefits of disk for data protection storage</li> </ul>
Disk Staging	<ul style="list-style-type: none"> <li>Automates backups to disk and relocation to long-term storage</li> </ul>
Synthetic Backups	<ul style="list-style-type: none"> <li>Creates new, streamlined backup image from previous full and incremental backups</li> </ul>
Advanced Client	<ul style="list-style-type: none"> <li>Integrates snapshot management for low impact backups and rapid restores</li> </ul>
Virtual Tape Option	<ul style="list-style-type: none"> <li>Support for 3<sup>rd</sup> Party Virtual Tape Products</li> </ul>
Desktop and Laptop Protection	<ul style="list-style-type: none"> <li>Continuous disk-based data protection whether in the office or on the road</li> </ul>

## Backup to Disk

VERITAS NetBackup software's backup to disk is an easy to deploy, basic disk-based data protection solution. NetBackup software writes the same data to disk (DAS, SAN, or NAS) as it would to tape. Therefore, when a backup to disk operation is finished, a single file the size of the backup will exist on the target volume that contains all the files that were backed up. Backup to disk policies and storage designations are easily configured through a graphical user interface to perform full, incremental, or differential backups.

- Intuitive GUI helps with configuration and administration
- Always available backup storage
- Supports all disk storage configurations (DAS, SAN, & NAS)

## Disk Staging

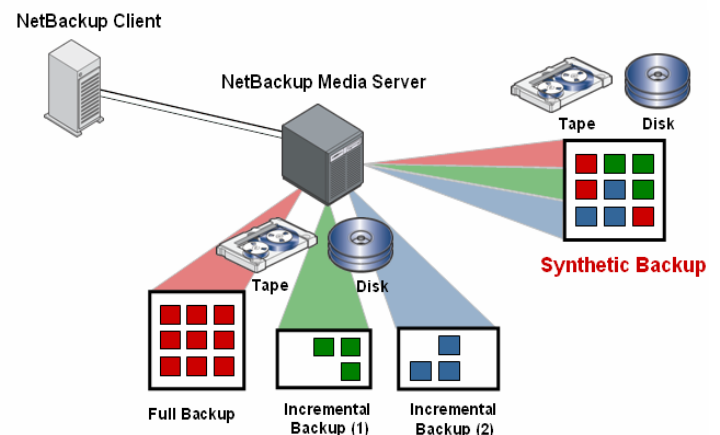
VERITAS NetBackup disk staging leverages high performance disk as a cache prior to storing backup data on long-term storage. Automated disk staging helps reap the benefits of both tape and disk media while providing investment protection.

- Automated backup and relocation policies
- Storage optimization and capacity management
- Long-term storage migration performed off-host
- Intelligent resource selection for rapid restores

## Synthetic Backups

NetBackup software's synthetic backup technology creates a new backup image from a previous full and subsequent incrementals, helping to reduce the time required to perform a recovery. New or changed files are backed up only once, decreasing the backup impact on the application host and reducing the amount of data being moved over the network.

- Streamlined restores from single backup image
- Fewer full backups reduces impact on systems and network
- Synthetic processing performed offhost



### Snapshot-Based Data Protection

NetBackup software simplifies the management of disk snapshots while enabling near instant, low impact backup and recovery. Administrators no longer have to manually configure snapshots outside of NetBackup.

Through the NetBackup Advanced Client, organizations can leverage disk-based snapshots to perform:

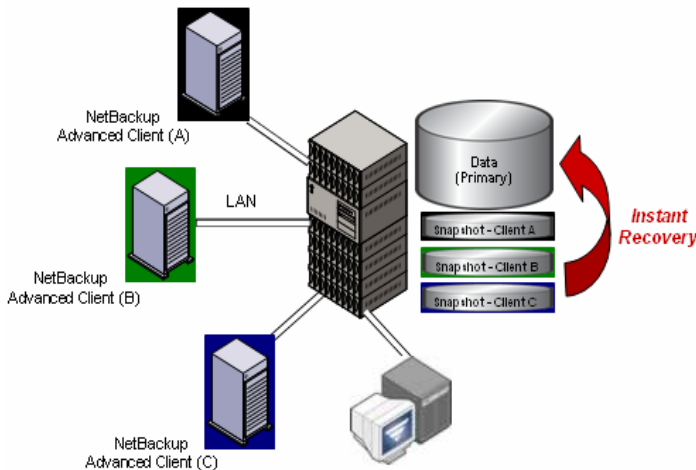
**Instant Recoveries** – Point-in-time data protection without data movement. Rapid roll backs of an entire volume / file system or single file synchronization from space-optimized, local snapshots.

**FlashBackups** – Lightning fast, block-level protection of large file systems. Raw partitions backup performance with the ability to granularly restore individual files

**Off-Host Backups** – Shift backup impact (CPU and I/O) off application system to backup server. Disk-based snapshots are mounted to backup server for processing.

Additionally, NetBackup Advanced Client further extends snapshot integration for online disk-based backup of Oracle, Microsoft SQL Server, Microsoft Exchange, and IBM DB2. IT administrators can perform low-impact backups of databases and applications without shutting them down. In addition, database administrators are provided a client view of their backup data with ability to perform rapid restores at a granular level.

- Integrates with software and hardware snapshots for high performance disk-based data protection
- Simplifies and consolidates snapshot management across multiple arrays and NAS filers
- Provides online consistent snapshots of Oracle, SQL , Exchange and DB2



### Virtual Tape Option

The Virtual Tape Option enables NetBackup support for 3<sup>rd</sup> party virtual tape library (VTL) offerings. A virtual tape library is a typically a dedicated computing appliance that presents disk storage to NetBackup as emulated tape drives. IT administrators can quickly configure and integrate virtual tape library disk-based data protection technology into existing NetBackup configurations and policies. Additionally, the NetBackup Vault Option can efficiently migrate backup images from a virtual tape library to tape for long-term or off-site storage.

- NetBackup support for 3<sup>rd</sup> party virtual tape library offerings
- Efficiently integrates into existing NetBackup configurations
- Migrate backups to long-term or off-site storage with NetBackup Vault Option

### Desktop and Laptop Option

The VERITAS NetBackup desktop and laptop solution provides continuous disk-based data protection whether users are in the office or on the road. With the NetBackup Desktop and Laptop Option, organizations can leverage their current IT infrastructure by automating the process of sending backup data directly to existing network shares or file servers.

To help extend enterprise data protection down to the user level, IT administrators can create specific user profiles and leverage delta file technology for optimized Exchange .PST protection. In addition to data protection, the VERITAS NetBackup desktop and laptop solution enables the synchronization of files between multiple systems in multiple locations

- Automates the copy of data to network shares or file servers
- Continuous mode creates a backup copy of the data as soon as the end user saves a new or updated file
- Enables end users to rapidly restore their own files

### PLATFORM SUPPORT

NetBackup Disk-Based Data Protection Solutions	
Backup to Disk	Windows, UNIX, Linux, and NetWare
Disk Staging	Windows, UNIX, Linux, and NetWare
Synthetic Backups	Windows, UNIX, and Linux
Advanced Client	Windows, UNIX, and Linux Oracle, SQL, Exchange, and DB2
Virtual Tape Option	Windows, UNIX, Linux, and NetWare
Desktop / Laptop Option	Windows Desktops and Laptops

For additional information please visit: <http://support.veritas.com>