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Archiving, Backup, and Recovery for Complete the Promise of Virtualization

Unified information management for enterprise Windows environments

The explosion of unstructured information

It is estimated that over 80 percent of enterprise content now consists of email, documents, presentations, and other types of unstructured information. This explosion of information has a significant impact on storage spending—as well as on IT's ability to meet the needs of its business units—and it can lead to the use of any number of disparate tools just to protect applications and keep them running.

Unifying information management

Symantec archiving and backup information management solutions are engineered to support today's most demanding Microsoft® environments. Unlike typical solutions focused only at the application level, Symantec archiving and backup solutions address the total data infrastructure (applications, servers, and networks) in order to unify content sources, apply retention policies, reduce backup windows, shorten recovery times, and optimize storage resources. Symantec makes it easier for companies of all sizes to store, manage, protect, and discover Exchange®, SharePoint, Windows® file servers, and other applications with its market-leading Symantec Enterprise Vault™ and Veritas NetBackup™ from Symantec solutions.

Backup vs. archiving: it pays to know the difference

Backup and archiving should be viewed as two sides of the same coin. Backup enables recovery of recent data should a file be deleted or destroyed, whereas archiving provides ongoing, rapid protection and access to decades of business information. Often, backup is incorrectly used as a “good enough” substitute for archiving, while the true benefits of actual archiving—namely, that archiving is an effective way to cut storage costs and reduce backup time, improve the efficiency of applications, and meet legal discovery requirements—are overlooked.

Protect and archive

As Windows environments become more complex, protecting them and keeping them running smoothly becomes more challenging. Continuous data protection (CDP) for key Microsoft business applications not only helps ensure that data is continuously backed up as it changes, but reduces both backup windows and storage resource demands as well. In the case of Exchange, CDP eliminates traditional “brick-level” mailbox backup while allowing IT to easily perform weekly—instead of daily—full backups of Exchange. Award-winning NetBackup and its newly integrated CDP capabilities provide high-performance backup and recovery that minimize cost and complexity as they promote greater business continuity for Windows environments of all sizes.

Archiving is critical to maintaining application size, performance, and scalability. Keeping old, infrequently accessed, and redundant data on primary servers not only wastes precious space, but it also costs time and money to manage, maintain, and back up the data. Consider how much time and storage space is reclaimed for backups and migration projects when there is

Solution Overview: Data Protection

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less active content residing on primary servers and storage. Enterprise Vault, the industry-leading archiving solution, will reclaim primary storage space, enable compliance with governance and industry policies on retention, and maintain end-user access to archived files.

Store and manage

When the footprint size of primary and backup storage is controlled, the applications and servers hosting that storage can remain focused on real-time applications with stable size requirements and enhanced performance. Archiving for storage optimization and compliance purposes will ultimately be needed to keep control over storage requirements and management overhead. Enterprise Vault automates the archival of items off of primary servers and storage. It will deduplicate, compress, and index files while storing them on lower-tier, cheaper storage. Deduplication can reduce the costs of storing unstructured information by over 60 percent.

Because not all data is created equal (business, personal, junk, spam, and so on), Enterprise Vault enables IT to easily classify and store information, so information is kept only as long as required. By providing an intelligent and automated archiving solution, Enterprise Vault helps IT to centrally manage archive and retention policies across different content sources, including Exchange, SharePoint, Windows file servers, instant messaging platforms, databases, and voicemail. Based on policies, archived information can also be moved to media managed by NetBackup for a full tiered storage strategy. NetBackup maximizes storage resources by using software-based deduplication to reduce backup storage consumption by up to 90 percent compared with traditional tape-based approaches—and without the need for specialized deduplication appliances.

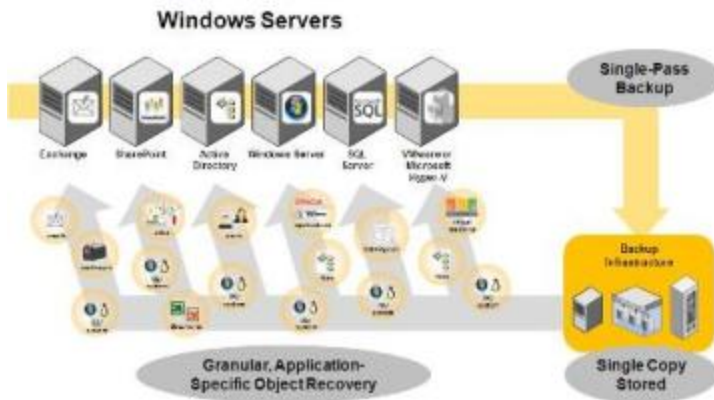
Discover and recover

IT organizations are expending significant amounts of time responding to search requests initiated by internal compliance and legal teams. Often, this search and discovery process is redundant; moreover, it requires off-site backup tapes to be restored, individual mailboxes to be searched, and many other repetitive and time-consuming steps. Enterprise Vault Discovery Accelerator searches the archive index, allowing search results to be retrieved in minutes instead of days or even months. Using Discovery Accelerator, internal legal teams and outside counsel can search the archive and analyze results with fewer dependencies on IT. Recovery is critical—the time it takes to restore a physical server when it fails can have significant impact on an organization's bottom line.

Attempting to recover individual data using typical backup products is cumbersome and time-intensive. NetBackup offers patent-pending Granular Recovery Technology (GRT), which eliminates traditional duplicate, time-consuming, and error-prone backups while enabling rapid one-click recovery of critical Microsoft application data, all from a single-pass backup—and without application restores. GRT saves time and money by enabling quick and easy restores of critical data such as individual Exchange emails, individual SharePoint objects, and individual Active Directory user accounts.

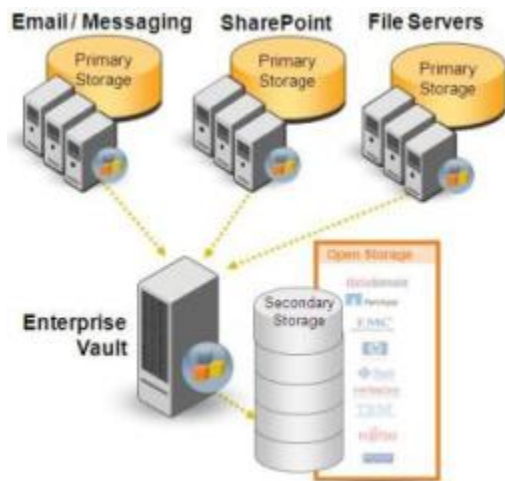
Solution Overview: Data Protection Archiving, Backup, and Recovery for Complete the Promise of Virtualization

The following diagram illustrates the unique granular recovery capability of the NetBackup agents for Microsoft Exchange, SharePoint, Active Directory which each provide rapid recovery of individual files, objects and data, across both physical and virtual environments -- all from a single backup.



Enterprise Vault—intelligent archiving and discovery

Managing millions of mailboxes for over 12,000 customers worldwide, Enterprise Vault is the industry leader in email and content archiving. Enterprise Vault archives unstructured information from messaging, file servers, and collaboration systems using powerful storage optimization, classification, and retention technologies to enable companies to stop buying storage and discover their data faster.



Solution Overview: Data Protection

Archiving, Backup, and Recovery for Complete the Promise of Virtualization

Organizations can use Enterprise Vault to:

- Move older, less frequently accessed unstructured data from primary storage to cheaper disk, or even tape, while allowing end users to access their archived email via shortcuts, whether they are online or off.
- Deduplicate and compress data while storing a single copy of a file or message in the archive, regardless of the number of times it is archived—or where it was originally archived from.
- Streamline search, discovery, and legal hold placement of archived information with Discovery Accelerator, and cull search results in-house before exporting to outside counsel.

NetBackup—scalable data protection

Windows environments are constantly evolving, and reliably protecting them presents unique challenges. NetBackup is the market leader in enterprise-class scalable backup and recovery solutions, NetBackup helps ensure that business-critical Windows data is always protected and efficiently restored across physical and virtual servers—from the desktop to remote offices and from global data centers to off-site vaults. And as business data grows, NetBackup easily scales to manage data protection from the multi-terabyte to the multi-petabyte level.

Protection for complex Microsoft environments

- Market-leading, scalable data protection for physical and virtual server environments
- Patent-pending Granular Recovery Technology (GRT) for quick recovery of critical Exchange, SharePoint, and Active Directory data in seconds
- Comprehensive restore capability, from entire vault stores and partitions down to an individual file or index
- Continuous Data Protection for Exchange, SQL, and file servers
- A single platform to manage, protect, and recover data across storage tiers, locations, and operating systems

Advanced Exchange protection and recovery

- Protects critical Microsoft Exchange environments, including Exchange 2010
- Cuts backup time and storage in half with fast, single-pass Exchange database backups
- Quickly restores individual Exchange emails, folders, and mailboxes

Continuity in the face of big or small disasters

Whether it's due to a failure in a remote location, an entire data center lost to flood or fire, or just a single Exchange server that has gone down, an interruption to key Windows business operations can bring a company to a standstill. The time it takes to resume operation—whether it is hours or days—can spell true disaster. NetBackup provides integrated capabilities that help optimize business continuity. First, live replication eliminates the need for shipping tapes by providing instant recovery of application data at two different sites for disaster recovery purposes. Next, deduplication minimizes the amount of data that

Solution Overview: Data Protection

Archiving, Backup, and Recovery for Complete the Promise of Virtualization

must be stored and moved to a recovery site. Last, bare metal restore streamlines the server recovery process on any platform—including restoral to dissimilar hardware or to virtual environments—in a matter of minutes.

Automated disaster recovery

- Flexible off-site protection for enhanced disaster recovery capabilities
- Instant recovery of replicated application data at two different sites
- Deduplication to reduce the amount of data at the recovery site
- Fast restore from bare metal even to dissimilar or virtual servers
- Easy fulfillment of strict recovery time and recovery point objectives (RPO and RTO)

Summary

Windows environments will continue to grow in size and complexity. As new technologies—such as virtualization and cloud computing—grow and proliferate, organizations need to identify proactive strategies that will enable them to better meet daily SLAs and achieve long-term corporate objectives. Only Symantec delivers a unified information management platform that eliminates silos and spans the broad spectrum of Windows platforms, applications, and data types. Integrated technologies from Symantec enable IT organizations to protect their current data, archive and discover their long-term information; manage data types and content sources more efficiently; and recover their systems and information quickly and easily. By focusing on these critical requirements, Symantec helps organizations improve recoverability, reduce downtime, lower storage needs, and maximize operational efficiency overall.
