Designed to provide high availability and data protection for Microsoft Office SharePoint Server data

IBM System Storage N series SnapManager for Microsoft Office SharePoint Server 2007 Software

Highlights

- ***Improve IT administrator productivity through a customizable, policy-based automation of data backups.***
- ***Increase storage utilization by leveraging the functionality of N series to add and dynamically reallocate physical capacity.***
- ***Create fast and efficient clones of volumes by using the FlexClone® functionality of N series systems.***
- ***Improve backup operations and recovery times while minimizing performance impacts during backups.***
- ***Help reduce backup and recovery times for SharePoint data from hours or even days to just minutes with the N series Snapshot™ technology.***
- ***Recover an entire SharePoint® Server portal, sites or subsites, or choose to restore a single document, all within minutes.***

Microsoft Office SharePoint Server 2007 and Storage Challenges

The consolidation of unstructured data is a key initiative for many SharePoint customers who need to protect and control valuable information that is currently scattered throughout the enterprise. Many companies are looking for ways to centralize unstructured data and make it accessible by authorized teams and individuals.

As Microsoft® Office SharePoint Server use increases, so has the number of discrete SharePoint instances on each physical server. This can lead to rapidly growing, fragmented deployments. The complexity of large Microsoft Office SharePoint Server environments can be further exasperated by the use of direct-attached storage subsystems. Managing numerous servers and the related data usually requires a lot of time and coordination across various departments within an organization.

Managing the protection of all the data associated with a distributed Microsoft Office SharePoint Server architecture can be time consuming. Recovering data can also be time consuming, because not only must recent full backup be recovered, multiple incremental backups may need to be recovered. In addition, scaling storage to address the demands for data and data protection can be manual and time intensive and could require downtime, reducing availability of Microsoft Office SharePoint Server-based applications.

The IBM System Storage™ N series Solution

IBM N series has taken a unique approach to managing SharePoint Server data, which is intended to help eliminate the tradeoff between administrator productivity and storage utilization. The N series solution is intended to help customers save time and resources by providing storage consolidation and simpler management for all Microsoft Office SharePoint Server data.

SnapManager® for Microsoft Office SharePoint Server is a data management solution intended to help streamline discovery, backup, recovery, and replication of SharePoint Server data. SnapManager is designed to take only minutes to do a full backup, which can help to dramatically reduce the time needed to perform backups. The use of N series Snapshot allows multiple backups of any size to be backed up simultaneously in minutes, and requires minimal disk space for each additional full backup, using its built-in data de-duplication technology.

SnapManager is intended to enable organizations to recover from Microsoft Office SharePoint Server outages in minutes—not hours or days—making it one of the fastest backup and recovery solutions available. It delivers a powerful combination of manageability, efficiency and speed for SharePoint Server environments.

Increases in speed and scalability do not have to come at the expense of cost and simplicity. N series SnapManager for Microsoft Office SharePoint Server is designed to increase productivity of personnel by:

- *Decreasing the time spent on routine backup and recovery tasks*
- *Implementing disaster recovery plans*
- *Adding cost-effective archive and compliance capabilities*
- *Creating clones of SharePoint Server data for development and testing.*

The unified storage architecture of N series supports production, disaster recovery and archival environments and is intended to reduce the need for redundant investment in new hardware, software and skills. FlexVol® feature of N series is designed to help optimize storage and allow storage capacity to increase without disruption to downstream SharePoint Server deployments. The modular architecture of N series can help provide easy upgrades and optimize core storage capabilities that are aligned with SharePoint Server growth requirements.

Reduce the complexity of Microsoft Office SharePoint Server data management

Consolidating all Microsoft Office SharePoint Server data onto N series storage systems can help to considerably reduce the number of devices requiring management. Administrators can back up or restore data from several Microsoft Office SharePoint Servers

simultaneously and easily expand volumes and change configurations to adapt to shifting storage requirements.

To further simplify administration, SnapManager provides an easy-to-use application-centric graphical interface. SnapManager is designed to automate routine data management tasks such as discovery, backup, recovery and replication. IBM N series storage appears as if it is local to the Microsoft Office SharePoint Server, with management of the storage accomplished through the native Windows® environment. E-mail alerts can be generated for near real-time event management. An online event log tracks historical changes and presents them in an easy-to-read format.

Maximize Microsoft Office SharePoint Server availability

SnapManager is intended to enable IT organizations to meet stringent service level agreements by significantly reducing planned and unplanned downtime. When SnapManager is deployed in concert with N series storage systems, this powerful application is designed to minimize scheduled downtime by enabling administrators to add storage while Microsoft Office SharePoint Server remains online. SnapManager can also help reduce recovery times to minutes, enhancing application availability and minimizing downtime.

To ensure that each backup is valid and available for recovery, SnapManager is integrated with SnapManager for SQL Server and automates the process of checking the underlying database consistency. Perform rapid data backups more frequently, minimizing exposure to data loss. More than 200 active Snapshot copies can be kept at any one time, with negligible performance impact. SnapManager is also integrated with N series SnapMirror®, which is intended to simplify remote replication of Microsoft Office SharePoint Server data and to help ensure data can be recovered rapidly in the event of a disaster.

Improve total cost of ownership

By consolidating Microsoft Office SharePoint Server data onto N series storage systems can help to increase storage utilization by eliminating static pools of unused storage. N series storage provides the ability to add or resize storage allocations “on-the-fly” and to store multiple online copies of Microsoft Office SharePoint Server data. Administrative overhead can be greatly reduced by automated data management features. Decreasing Microsoft Office SharePoint Server downtime can help reduce the risk of lost business efficiency and productivity. The ability to automatically migrate older backups to less expensive disk storage using N series SnapVault® can provide further cost savings, while still providing the performance and flexibility of disk-based storage. Finally, the ability to support both iSCSI and Fibre Channel (FC) network environments enables organizations to reuse their current network investment while deploying a long-term and highly scalable storage solution.

System Requirements

SnapManager for Microsoft Office SharePoint Server supports:

- *Microsoft Office SharePoint Server 2007, Windows SharePoint Services*
- *Windows Server®, Standard Edition/Enterprise Edition*
- *Microsoft SQL Server® Standard Edition/Enterprise Edition*
- *SnapManager for SQL Server*
- *Fibre Channel or iSCSI*
- *SnapDrive®*

SharePoint Server Storage Challenge	IBM N series Solution
Manual backup procedures	SnapManager for Microsoft Office SharePoint Server is designed to provide an easy-to-use, browser-based interface to automate backups by using customizable schedules.
Degraded performance during backups	With Snapshot integration, making a point-in-time copy of SharePoint Server data takes only a few seconds and is designed to minimize the impacts to storage system performance. More than 250 Snapshot copies can be kept concurrently.
Slow recovery times	SnapManager and SnapRestore® combine to automate and speed the recovery of SharePoint information.
Monolithic, disruptive recovery	N series provides granular recovery and retrieval of SharePoint Server with minimal, if any, downtime.
Implementing cost-effective data protection	SnapMirror and MetroCluster® provide the ability to cost-effectively protect data from local and regional disasters. N series RAID-DP™ protects against data loss even in the case of double-disk failure.
Archive and compliance	N series SnapLock® software enables easy implementation of SharePoint retention policies and regulations by archiving data on SEC-compliant non-erasable, non-rewriteable volumes.
Support for custom development	N series FlexClone software can be used to create full copies of production data, without duplicating storage costs. FlexClone copies of SharePoint data can be created quickly, helping to eliminate the complexity and latency associated with legacy storage systems.
Support for rapid growth in both data and usage	N series storage systems are modular, enabling fast upgrades to system capacity. N series FlexVol software is intended to enable storage administrators with the ability to add physical capacity without disruptions to downstream SharePoint Server related applications.
Need for increased security	SnapManager recovers the metadata along with the SharePoint Server data, retaining security and access rights to help protect sensitive information.

For more information

To learn more about the SnapManager for Microsoft Office SharePoint Server, please contact your IBM marketing representative or IBM Business Partner, or visit the following Web sites:

ibm.com/storage/network/

For SnapManager for Microsoft Office SharePoint Server interoperability visit:

ibm.com/systems/storage/network/interophome.html

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