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Solution > Infrastructure > **Data Protection**

# NetApp Solution for Microsoft SharePoint Server Data Protection

## KEY FEATURES

### Achieve 43% lower downtime

Snapshot™ copies allow recovery two times faster.

### Get fast, granular recovery

Recover an entire SharePoint® site, subsite, or item version within minutes and no need for parallel SharePoint farms for discovery.

### Reduce protection costs

Leverage deduplication to reduce storage costs and thin replication to control network costs.

### Enable low-cost decision support and Development Efforts

Create virtual copies of SharePoint in minutes to drive business intelligence and development.

### Simplify compliance

Embedded disk-based Write Once, Read Many (WORM) service makes data unalterable.

## THE CHALLENGE

For collaborating, managing content, and transforming information into business intelligence across the enterprise, the leading solution is Microsoft Office SharePoint. SharePoint supports tens of thousands of customers with millions of licenses globally and is regarded as a mission-critical application. Publishing automation, document versioning, and the ability to analyze large amounts of business information deliver countless benefits to users. Yet, accompanied by these many benefits is the challenge of protecting a vast amount of data. SharePoint data grows organically and exponentially and must be continually protected while strict compliance requirements are met.

To complicate matters, SharePoint is built on top of Internet Information Services (IIS) and SQL® Server databases that must all be protected in order to prevent lengthy outages. This complexity also dictates the need for many development and test cycles.

Given the number of business processes, collaboration on vital projects, and frequent exchange of information that occur between knowledge workers within SharePoint in the course of any business day, loss of access to SharePoint data for even a short period negatively impacts productivity and puts valuable intellectual property at risk. To avoid negative business consequences, a comprehensive data protection solution is required that combines high availability, disaster recovery, and archival capabilities in a single solution.

## THE SOLUTION

Simplify, speed up and reduce the cost of protecting SharePoint with NetApp Integrated Data Protection. NetApp Integrated Data Protection works by embedding high-availability, backup, compliance, and disaster recovery services directly into the storage platform. Rather than buy, deploy, and manage multiple systems you use a single high-efficiency platform that delivers:

**Microsoft**  
**GOLD CERTIFIED**  
Partner

“NetApp offers incredible flexibility. It is always surprising how simple and convenient data management is for Microsoft File Service, Exchange, SQL Server, and SharePoint. And it’s not just the products that are impressive. We’ve come to appreciate NetApp as a reliable partner that keeps its promises.”

Thomas Lohr

Director of Data Management, Stadtwerke Herne AG

#### **Operational-level protection**

Use Snapshot copies on primary storage for application-consistent recovery of SharePoint and its underlying components—from SQL databases to IIS—in minutes. SharePoint administrators are empowered to pinpoint and fulfill application-consistent restores of sites, subsites, items, files, and even versions of items and files. NetApp® Snapshot technology enables more frequent backups without affecting system performance while increasing the efficiency of your storage resources.

#### **System-level protection**

Safeguard against complete system loss and increase available recovery points to weeks, months, even years by retaining space-efficient Snapshot copies on lower-cost secondary storage. Copies can be recovered in minutes and reduce capacity requirements by up to 90%.

#### **Site or regional-level protection**

Protect your entire SharePoint farm and associated application data from data center outages with storage

clustering that extends up to 100km. Extend disaster recovery with long-distance thin replication that significantly reduces bandwidth needs.

#### **Simplified compliance**

Meet government regulations by creating compliant WORM storage volumes that meets stringent regulations such as SEC 17a-4 and others.

#### **Business agility**

Prove data protection strategies work and reduce the cost of development/business intelligence efforts by creating virtual copies of DR data. Copies are available in minutes and require up to 95% less capacity, enabling IT to more efficiently support business initiatives.

In addition to leveraging the cost-saving benefits of storage efficiency technologies like deduplication, the NetApp solution also includes integration with SharePoint and the Microsoft VSS infrastructure with SnapManager® for SharePoint. With SnapManager for SharePoint, administrators can schedule backups and easily restore everything from sites to individual items.

#### **BACKUP AND RESTORE**

#### **Operational-level protection**

NetApp provides local backup and recovery in minutes with Snapshot copies that use metadata rather than full copies for maximum efficiency and speed. The process is simple. An application-consistent Snapshot copy is created on the local storage and, when you need to, you choose the specific point in time to which you want to recover. Full server content recovery, site recovery, and subsite recovery are all available with a single restore operation. SharePoint administrators are empowered to recover an item within a site without going to the time and expense of installing the redundant server and storage infrastructure required to create a parallel SharePoint farm for discovery. Individual items such as lists, calendar items, file folders, files, or even specific versions of files are simple to restore.

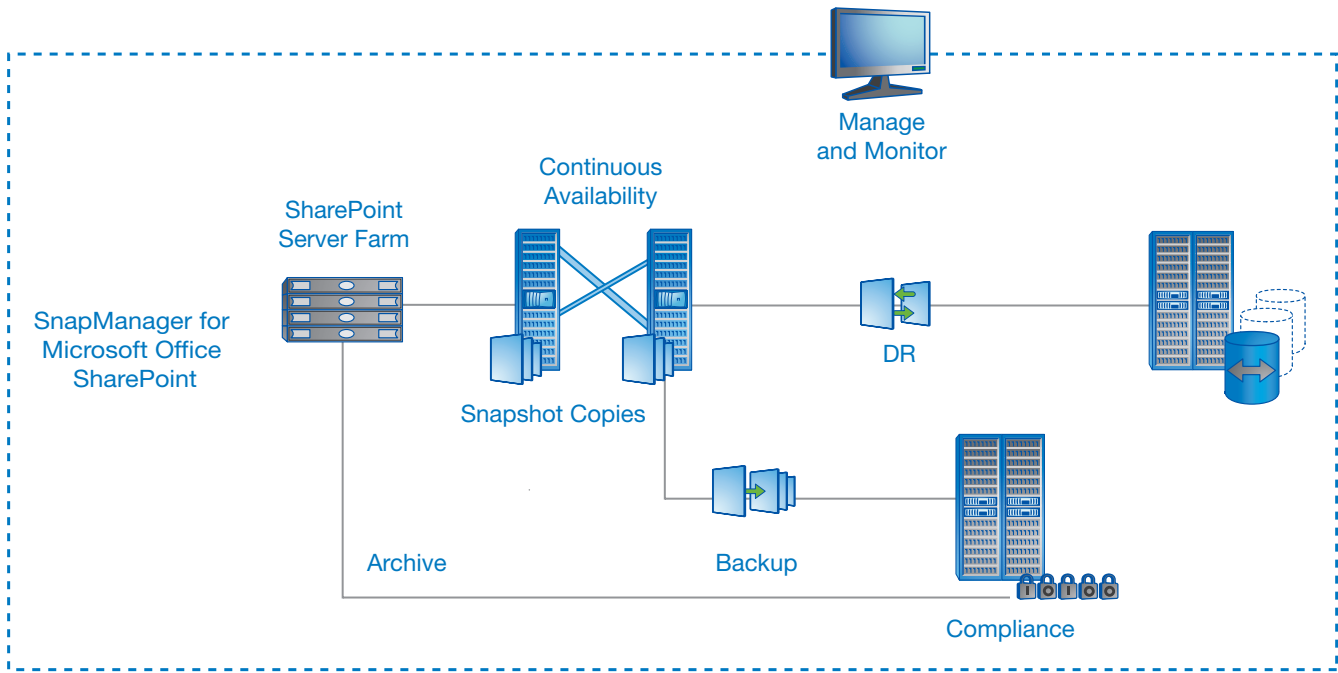


Figure 1) NetApp Integrated Data Protection for Microsoft Office SharePoint server workflow

### System-level protection

For longer-term recovery and protection against the loss of the entire storage array, NetApp SnapVault® delivers a quick, reliable, and cost-effective solution. SnapVault stores multiple Snapshot copies on a secondary system, enabling recovery of data deleted days, weeks, months, and even years in the past. A limited set of Snapshot copies will still be kept on primary storage for immediate recovery. SnapVault increases the overall speed and efficiency of SharePoint protection through block-level incremental backups, which store only changed blocks. This reduces recovery times to minutes and minimizes the amount of storage required.

Backup and Restore Benefits:

- Improve backup and recovery speeds by up to 92%.
- Back up more frequently to protect rapidly changing data stores.
- Reduce capacity use up to 90% with storage efficiency technologies.
- Recover portals, sites, subsites, or individual items in minutes.

### HIGH AVAILABILITY AND DISASTER RECOVERY

#### Site or regional protection

For local and site continuous availability, NetApp MetroCluster service delivers increased resiliency using storage-level clustering. MetroCluster protects SharePoint farms by writing data to two independent arrays that can be up to 100km apart and transparently failover between each other with no disruption to business-critical applications.

When extended distances are required, the SnapMirror® service can be used to deliver disaster recovery protection for your business-critical SharePoint installation. SnapMirror replicates changed blocks and Snapshot copies from the primary storage system to a secondary DR system. In the event of an outage, the secondary system can be used to access SharePoint, and business operations can resume in minutes. Network compression can be utilized to speed up transfers, reduce bandwidth utilization, and control network costs between locations.

MetroCluster and SnapMirror both leverage NetApp's storage efficiency technologies to reduce capacity requirements. They can be used together to meet SLAs that demand continuous availability and long-distance disaster recovery.

High Availability and Disaster Recovery Benefits:

- Protect SharePoint data from disasters and planned outages.
- Have flexible RPOs and RTOs to meet a range of SharePoint SLAs.
- Leverage network efficiencies for bandwidth savings.

### BUSINESS AGILITY AND SIMPLIFIED COMPLIANCE

#### Strategy validation

Once availability solutions are deployed, most organizations monitor the status of jobs but seldom test how the strategy will work in the event of an issue. This is because testing of data protection strategies is time consuming and often requires you to failover production storage and systems. NetApp Integrated

Data Protection gives you a better option. With the FlexClone® service, virtual copies of DR data can be created and used to test how recovery would occur for SharePoint. Virtual copies consume near-zero capacity, can be generated in minutes, and have no impact on running DR or production processes. This controls costs and gives you the flexibility to test as often as your business or government agencies require.

#### **Business intelligence and development**

Decision support processes drive the business by using production data to refine sales strategies, target new markets, and mine data for new opportunities. Similarly, development efforts leverage production data to make sure that new applications or business processes work as desired. The problem that most organizations face with implementing robust business intelligence and development efforts is how to access the most current data without impacting production performance or buying lots of additional storage.

NetApp can help by creating virtual copies of DR and backup data. As with strategy validation, NetApp customers use the FlexClone service to create low-cost copies of SharePoint data that is available in minutes and has no impact on production. Multiple copies of a single data set can be created at the same time and used for parallel development efforts, data mining, even training without requiring huge investments in storage or IT staff time.

#### **Simplified compliance**

When SharePoint data needs to comply with regulatory codes, NetApp offers a simple way to archive and lock data sets. To meet government regulations, we offer the unique capabilities of SnapLock®, our compliant WORM storage feature that meets stringent regulations such as SEC 17a-4 and others. SnapLock does not require a separate infrastructure—it is activated via license key on any NetApp storage system, enabling compliant and non-compliant data to efficiently coexist in the same unit.

Business Agility and Archive and Compliance Benefits:

- Create space-efficient copies of SharePoint databases in minutes rather than hours.
- Enable low-cost development efforts.
- Accelerate the release of new applications without having to test on production systems.
- Reduce the risk of alteration of archived data for compliance.

The NetApp Unified Storage Architecture, with its powerful data protection solutions, is integrated into SnapManager for SharePoint. To learn more about how administrators deploy self-service backup and restore, HA/DR, dev/test, and archiving and compliance solutions that leverage storage efficiencies to lower downtime and recovery costs by 43% over comparable solutions, go to <http://www.netapp.com/us/solutions/applications/microsoft-sharepoint-server/>.



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