

IBM System Storage N series with MultiStore Software

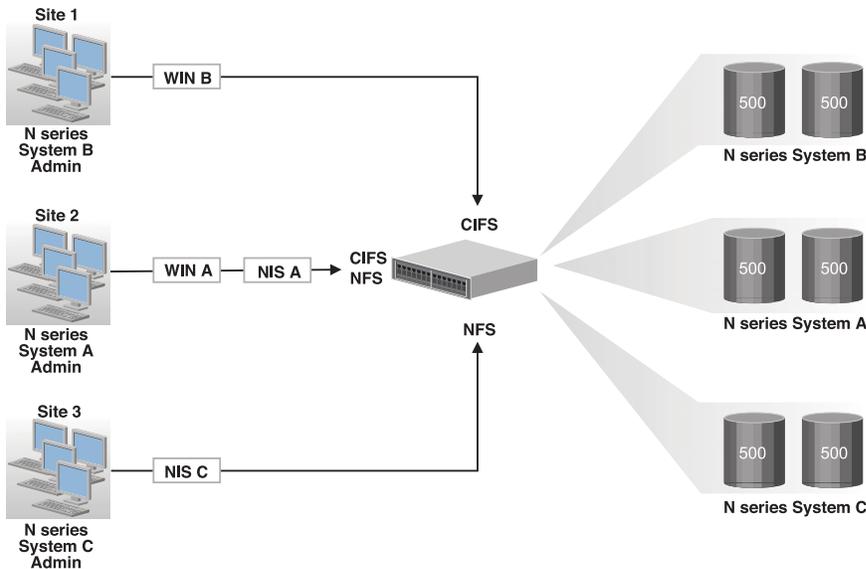


Figure 1. MultiStore Multidomain Storage Consolidation
This diagram illustrates the virtual partitioning of filer's network and storage resources. It also depicts how multiple domains (WIN and NIS) can be consolidated in one physical filer. Each virtual partition is also a multiprotocol (CIFS, NFS or CIFS+NFS).

The challenge: Consolidating storage easily and securely

As network, Internet, and server facilities worldwide become increasingly consolidated, there is a growing concern about maintaining data security and privacy. Within enterprises and xSP facilities, many different users may share the same storage resources. Providing completely separate storage in a facility that houses the files and applications of thousands of different users is a formidable challenge. How can data security be maintained without providing physically separate storage for all?

The solution: IBM System Storage N series with MultiStore—shared storage with enhanced privacy

IBM® System Storage™ N series with MultiStore® software is designed to let you quickly and easily create separate, private logical partitions in filer network and storage resources. Each virtual

Highlights

- **Server consolidation—helps to simply and easily consolidate the functionality of multiple Windows®/UNIX® file servers without reconfiguring.**
- **Simplified data movement and migration—move and migrate data quickly and easily with SnapMirror®, helping to reduce downtime.**
- **Secure resource partitioning—helps maintain separation and security of shared storage and network resources.**

storage partition is designed to maintain separation from every other storage partition to prevent different enterprise departments that share the same storage resources from accessing or finding other partitions. MultiStore helps prevent information on any virtual partition from being viewed, used, or downloaded by unauthorized users.

Consolidate storage and multiple domains into a single filer

Many enterprises have thousands of Windows and UNIX file servers scattered throughout their networks. These servers not only represent an enormous hardware investment, they also create huge, ongoing administration costs. MultiStore can help avoid this major expense and complexity by enabling a single filer to do the work of multiple servers.

The transition to MultiStore is simplified because no reconfiguration of user data is required. NFS exports and CIFS shares can be set up independently for each partition. Not only that, you can also consolidate multiple domains on one filer.

For these reasons MultiStore can help you save money on hardware, software and support, and also help reduce your administration burden. Instead of managing multiple servers, an administrator has just one filer to manage—the ultimate in simplicity.

Secure consolidation for enterprises and service providers

In both enterprises and xSPs, MultiStore can partition and help protect against unauthorized viewing or tampering of sensitive information such as human resource records on employees and their salaries and other private information. In addition, some clients, departments or individuals may need the added security of their own private network for accessing their data. With MultiStore and IBM System Storage N series filers, you can easily designate a network as separate or shared—and do the same with other network resources to provide an added level of security.

Help lower your total cost of ownership

In enterprises, giving individuals, departments and remote locations their own separate storage devices isn't practical or economical. Likewise, for ISPs and colocation facilities that need to offer affordable services, it's not economically viable to have separate systems for every customer. MultiStore helps solve these challenges by providing functionality that lets users share a storage system with rich privacy and security features.

Easy setup, administration, and operation

MultiStore is designed to fit seamlessly into many existing infrastructures, avoiding added demand on administration time and resources. MultiStore's tiered storage resource management administration model lets you confidently delegate to your staff export and user management tasks such as CIFS share, NFS export management and user administration. This highly efficient model can help provide the control you need—with the potential for lower administration costs.

For more information

Contact your IBM representative or
IBM Business Partner or visit:

ibm.com/storage/nas/



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San Jose, CA 95193
U.S.A.

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MB, GB and TB equal 1,000,000, 1,000,000,000 and 1,000,000,000,000 bytes, respectively, where referring to storage capacity. Actual storage capacity will vary based upon many factors and may be less than stated. Some numbers given for storage capacities give capacity in native mode followed by capacity using data compression technology.

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