NetApp™
Go further, faster

Software

MultiStore

The easiest way to manage and secure enterprise storage for multi-tenant infrastructure

THE CHALLENGE

Consolidating storage in the dynamic data center
As network, Internet, and server facilities worldwide become increasingly consolidated, your concern is growing about maintaining security and privacy for your data. Since many of your users and clients may share the same storage resources, it is critically important to provide secure partitioning without the burden of administrative complexity.

Additionally, the pervasive deployment of virtual server solutions creates new challenges for your storage infrastructure since data might need to be moved from one physical storage system to another to match dynamic resource rebalancing within the data center.

THE SOLUTION

NetApp MultiStore
NetApp® MultiStore® software lets you quickly and easily create separate and private logical partitions on a single storage system. Each virtual storage partition maintains separation from every other storage partition, so you can enable multiple tenants to share the same storage resource without compromise to privacy and security. You can be confident that no information on a secured virtual partition can be viewed, used, or downloaded by unauthorized users.

SECURE STORAGE CONSOLIDATION

Many companies have thousands of Windows and UNIX file servers scattered throughout their enterprise. These servers not only represent an enormous hardware investment; they also create huge, ongoing operational costs. NetApp MultiStore reduces this major expense and complexity by enabling you to consolidate multiple file servers on a single NetApp storage system with no reconfiguration of user data. NFS exports, CIFS shares, and iSCSI partitions can be set up independently. You can also consolidate multiple domains on one system. These are all good reasons why MultiStore not only saves money on hardware, software, and support, but also reduces the administrative burden. Instead of managing multiple servers, you have just one storage system to manage—the ultimate in simplicity.

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2009 ADVANCED INFRASTRUCTURE SOLUTIONS
Storage Solutions
PARTNER OF THE YEAR
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APPLICATION HOSTING

Since MultiStore enables the creation of multiple administrative domains, it is the ideal multi-tenant foundation for a shared storage services model. Whether you provide backup as a service or a variety of other applications to multiple customers and internal users, consolidation of storage resources across a diverse set of internal users and clients can yield significant cost and operational benefits. Still, you might have concerns about secure data access and privacy. This is particularly important when you need to prevent unauthorized viewing of or tampering with sensitive information such as human resources records, patient medical histories, and customer billing information. In addition, some clients, departments, or individuals might need the added security of their own private network for their application data. With MultiStore, your users and clients have the confidence that each virtual data partition is private, and that the storage network can easily be designated as either separate or shared. You can delegate administration of individual storage partitions to the clients and departments with access privileges while sharing physical storage infrastructure across a diverse set of applications, without impact on data security.

DYNAMIC STORAGE INFRASTRUCTURE

In addition to the move toward data center consolidation, there is an increasing need to provide faster response times, increased organizational agility, and continuous business operation. You therefore need to move beyond the constraints found in the traditional approach of a tiered storage architecture.

MultiStore can help you achieve a truly dynamic data center environment, since data can be provisioned, moved, and protected based on user and application boundaries. Since your critical information is kept in virtual storage containers, you can establish operational and business continuity policies that are data and application centric and not tied to specific hardware configurations. Your ability to easily migrate data sets from one physical storage system to another is particularly important for nondisruptive system upgrades and system load balancing. MultiStore virtual partitions allow you to achieve this type of flexibility within the framework of a unified, multiprotocol architecture. MultiStore also simplifies data movement for disaster recovery since no client configuration changes are required on the destination storage system. The result is that you can create a shared storage infrastructure that is more responsive, easier to manage, and significantly less expensive to deploy.

PARTNER FOR SUCCESS

When you partner with NetApp, you get the benefits of a fully tested solution, the expertise of our Professional Services and Global Support teams, access to our innovative technologies, and the provision of best practices. We respond quickly to your problems, no matter where in the world they occur. And with one of the most flexible support programs in the industry, you get the exact support you need for your unique IT and business requirements.
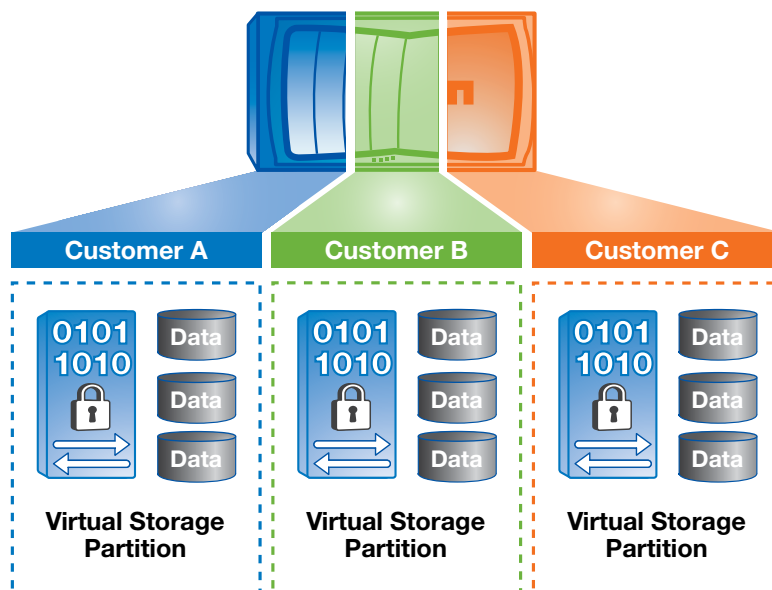

Figure 1) MultiStore enables secure multi-tenancy for shared storage implementations.

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