



SOFTWARE

NETAPP SERVER SUITE

KEY FEATURES

Advanced Storage Virtualization

Virtualize NetApp storage resources and integrate with native disk and volume management.

Automated Mapping and Management of New Storage Resources

Provision new storage resources cleanly and efficiently, without application or server downtime.

Dynamic Storage Allocation

Quickly and easily reallocate storage in response to shifts in application or server demand.

NetApp Server Suite offers a server-aware alternative to manual storage integration and management. System administrators can easily map, manage, and migrate data between underlying storage infrastructure components without disrupting downstream applications or databases.

THE CHALLENGE:

Flexible Storage Management with No Risk to Business Operations

Networked storage broke past the limitations of direct-attached storage to give you lower cost and higher utilization. However, in the process, the direct relationship between applications, servers, and the physical storage was lost. We now had the risk that if servers did not have the latest infrastructure information, then storage changes could unexpectedly disrupt business-critical applications.

THE SOLUTION

With the NetApp Server Suite of software products, you can have the flexibility of networked storage while reducing the risk of disruptions to critical operations. NetApp SnapDrive® software, for example, tightly integrates with native file systems, providing a dynamic link between application data, the server, and the physical storage. Thus, changes in underlying storage allocations are transparent and nondisruptive to applications and databases. SnapDrive works in Microsoft®, UNIX®, and Linux® server environments.

Another way to leverage the power of NetApp servers is to monitor and manage them using third-party tools. If you manage your enterprise network with HP OpenView,

Tivoli Enterprise, or Microsoft Operations Manager, NetApp ApplianceWatch™ software will enable you to view, monitor, and configure NetApp storage systems from within these storage management environments.

ADVANCED STORAGE VIRTUALIZATION

The benefit of virtualization lies in allowing you to manage the server data, not the underlying physical storage infrastructure details. However, unless the virtualization dynamically accounts for changes to the physical storage infrastructure, you must use manual methods to avoid disruptions. With the NetApp SnapDrive products, changes at the physical level are automatically reflected at the server file management level. Applications and databases on that server continue to operate without missing a beat.

AUTOMATED MANAGEMENT AND MAPPING OF NEW STORAGE RESOURCES

One of the great advantages of networked storage is the ability to add new storage as needed, without disrupting your existing database and application servers. With the NetApp SnapDrive products, storage resources can be easily mapped, managed, and migrated as needed to match the underlying demand. As a result, you achieve much better storage utilization.

DYNAMIC STORAGE ALLOCATION

As companies grow, the challenges become more complex, and your storage capacity scales to match. That storage must be as flexible and adaptable as possible for optimal overall performance and utilization. Often, there is too much capacity allocated to one application or database, while another is dangerously close to exhausting its spare storage resources. In order to maintain and improve operational efficiency, NetApp Server Suite allows you to easily map, manage, and migrate storage resources without disruptions to the dependent applications and servers.

SnapDrive

You're proactive, so in the absence of a prebuilt solution, you build your own. That's why many server administrators use manual scripts to maintain the server links to the underlying storage resources. However, doing so can expose you to undue delay, possible errors, and frequent updating. With NetApp SnapDrive for Windows® and SnapDrive for UNIX, there's no need to resort to manual processes. You can effectively manage your growing storage infrastructure, take advantage of existing skills, and increase your storage utilization. You benefit from the virtualization capabilities of SnapDrive. SnapDrive creates virtual disks from a centrally managed pool of networked storage that can be distributed among several storage appliances. As a result, you can respond easily to rapidly changing storage needs.

With SnapDrive, you can add, delete, map, unmap, and mirror virtual disks online. You can expand capacity on-the-fly without disrupting applications or system performance. When used in conjunction with other NetApp software, SnapDrive augments backup and restore and online data replication.

In the Windows environment, SnapDrive can be administered using the Microsoft Management Console. In the UNIX environment, SnapDrive features a command-line interface.

ApplianceWatch

For those who manage their enterprise networks using HP OpenView, Tivoli Enterprise, or Microsoft Operations Manager (MOM) and who want to leverage the power of NetApp storage systems, ApplianceWatch is an easy way to integrate NetApp into their management environment.

ApplianceWatch for HP OpenView, ApplianceWatch for Tivoli Enterprise, and ApplianceWatch for MOM enables you to monitor and manage distributed NetApp storage systems in those enterprise environments.

ApplianceWatch for HP OpenView is integrated with OpenView's Network Node Manager software module. It enables you to autodiscover NetApp systems, display them as icons, view their health status, and configure them as needed.

ApplianceWatch for Tivoli Enterprise is a Tivoli-certified, Tivoli-Ready Plus Module that seamlessly integrates NetApp storage systems into the Tivoli Management Framework.

With ApplianceWatch for Tivoli Enterprise, you can automatically track NetApp storage systems, monitor a variety of events and alarm conditions, and specify alarms and actions to be taken. You can also specify SNMP trap displays, modify or add rules for correlating NetApp events, partition and delegate NetApp administrative duties, and create NetApp product-specific task libraries.

ApplianceWatch for MOM enables integration with the Microsoft Operations Manager enterprise management tool. It is designed to be installed on the MOM server and interprets SNMP traps from Network Appliance™ systems. This allows MOM's standard event classification and response rules to be applied to NetApp systems.

ABOUT NETWORK APPLIANCE

Network Appliance is a world leader in unified storage solutions for today's data-intensive enterprise. Since its inception in 1992, Network Appliance has delivered technology, product, and partner firsts that simplify data management. Information about Network Appliance solutions and services is available at www.netapp.com.

