



Solution > Infrastructure > Virtualization

NetApp Solution for Microsoft Virtualized Environments

KEY BENEFITS

Maximize efficiency

Use 50% less storageguaranteed*.

Achieve up to 50% savings in power, cooling, and space without sacrificing performance.

Accelerate time to market

Provision your storage as quickly as your virtual machines.

Increase productivity

Eliminate labor-intensive processes by streamlining and automating backup, recovery, and disaster recovery.

Meet uptime requirements

Back up and restore your virtual environment almost instantaneously plus protect your entire environment with costeffective DR.

THE CHALLENGE

Maximize the benefits of your virtualized server environment

Poor server and storage utilization leads to overinvestments in hardware, operational inefficiencies, and wasted space and power. Microsoft® virtualization enables you to optimize your server environment and substantially reduce operating costs and capital expenditures. However, consolidating multiple workloads onto a single physical server increases the number of applications that can be rendered inaccessible by a single component failure while complicating and often extending backups.

To fully realize the benefits of your virtualized environment, you must eliminate storage inefficiencies while addressing the increased demands server virtualization imposes on your storage infrastructure.

THE SOLUTION

An end-to-end virtualization solution from NetApp and Microsoft

NetApp provides the ideal storage foundation of a comprehensive virtualized infrastructure.

NetApp enables you to get the most out of your Microsoft environment by extending the inherent efficiencies of the Windows® Server 2008 Hyper-V™ platform with a broad variety of unique storage efficiency technologies. NetApp also complements Microsoft data protection capabilities with simplified, automated backup, recovery, and disaster recovery to provide best-inclass data protection. Finally, NetApp facilitates increased business agility by bringing the same type of provisioning flexibility that Microsoft brings to servers to storage.



In 2009 Microsoft selected NetApp as its Advanced Storage Solutions Partner of the Year due to the compelling benefits of the joint solution combining Microsoft Windows Server 2008 Hyper-V, integrated management using Microsoft System Center, and highly efficient NetApp® storage.

MAXIMIZE EFFICIENCY

NetApp complements Hyper-V by virtualizing the underlying storage environment, consolidating hardware, and providing the same efficiencies for storage that Hyper-V does for servers to reduce storage, power, cooling, and floor space needs as much as 50%. You can dynamically provision and resize storage, deduplicate redundant data, and create instant space-saving Snapshot™ copies of virtual machine data for rapid backups without any performance penalty.

In fact, we'll guarantee* that your Microsoft virtualized environment will use 50% less storage with NetApp compared to traditional storage.

ACCELERATE TIME TO MARKET

To respond to changing business needs, you need to be able to deploy new virtual machines and provision storage for them quickly. With our nearly instant, low-overhead storage cloning and provisioning, you can slash provisioning time by up to 40% with minimal effect on servers. These same capabilities can also help you shorten test and

development cycles from weeks to minutes by enabling instantaneous storage provisioning and cloning of your virtual machines.

INCREASE PRODUCTIVITY

Automated disk-based backup and recovery streamline data protection for your entire virtualized environment. Our tight integration with Windows, Microsoft applications, and the Hyper-V architecture lets you manage, schedule, and automate instant Snapshot backups of our virtual machines and virtualized application data. You can even set up policies to automatically back up data at the VM level and monitor and provision VM capacity through Microsoft System Center Virtual Machine Manager. Unlike other point-in-time solutions, which are not coordinated with VMs, our Snapshot copies are application-aware for each VM, so your recovery is always consistent and complete. By eliminating time-consuming tasks, backing up data in seconds, and restoring in minutes, you no longer have to worry about meeting your backup windows or recovery objectives.

MEET UPTIME REQUIREMENTS

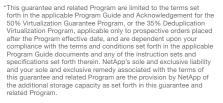
Virtualization not only helps improve the efficiency of your server infrastructure, it plays a critical role in centralizing and simplifying high availability and disaster recovery. While Microsoft virtualization technologies such as failover clustering and live migration provide simplified, reliable high availability at the host and application layers, NetApp provides continuous data availability and rapid disaster recovery at the storage layer.

Our storage- and network-efficient data protection solutions reduce the need for an expensive disaster recovery infrastructure by delivering rapid and reliable recovery across all application tiers. To further maximize the utilization of your disaster recovery assets, you can use replicated data for multiple purposes. NetApp FlexClone® lets you instantly clone VMs at remote sites, converting read-only data volumes into writable copies that can be used for DR testing, business intelligence, and development and test environments, using up to 90% less space than physical copies.

BUILD FOR TODAY, GROW FOR TOMORROW

NetApp offers the industry's broadest family of compatible storage systems and data management software to give you superior flexibility and scalability. All of our systems offer simultaneous support for both primary-to-virtual and virtual-to-virtual environments, and you can optimize resources by using different storage systems on your primary and secondary sites. To extend the benefits of our simplified data management to your third-party storage arrays, you can use our V-Series product line (V3000 and V6000).

NetApp creates innovative storage and data management solutions that help you accelerate business breakthroughs and achieve outstanding cost efficiency. Discover our passion for helping companies around the world go further, faster at NetApp.com.



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