



**NetApp™**  
Go further, faster



Solution > Infrastructure > **Virtualization**

# NetApp Solution for Microsoft Virtualized Environments

## KEY BENEFITS

### Maximize efficiency

Use 50% less storage—guaranteed\*.

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 cost-effective 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-in-class data protection. Finally, NetApp facilitates increased business agility by bringing the same type of provisioning flexibility that Microsoft brings to servers to storage.

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

2009 ADVANCED INFRASTRUCTURE SOLUTIONS  
Storage Solutions  
**PARTNER OF THE YEAR**  
WINNER

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).



www.netapp.com

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.

\*This guarantee and related Program are limited to the terms set forth in the applicable Program Guide and Acknowledgement for the 50% Virtualization Guarantee Program, or the 35% Deduplication Virtualization Program, applicable only to prospective orders placed after the Program effective date, and are dependent upon your compliance with the terms and conditions set forth in the applicable Program Guide documents and any of the instruction sets and specifications set forth therein. NetApp's sole and exclusive liability and your sole and exclusive remedy associated with the terms of this guarantee and related Program are the provision by NetApp of the additional storage capacity as set forth in this guarantee and related Program.

© Copyright 2009 NetApp, Inc. All rights reserved. No portions of this document may be reproduced without prior written consent of NetApp, Inc. NetApp, the NetApp logo, Go further, faster, FlexClone, SnapManager, and Snapshot are trademarks or registered trademarks of NetApp, Inc. in the United States and/or other countries. Microsoft and Windows are registered trademarks and Hyper-V is a trademark of Microsoft Corporation. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such. DS-2809-0909