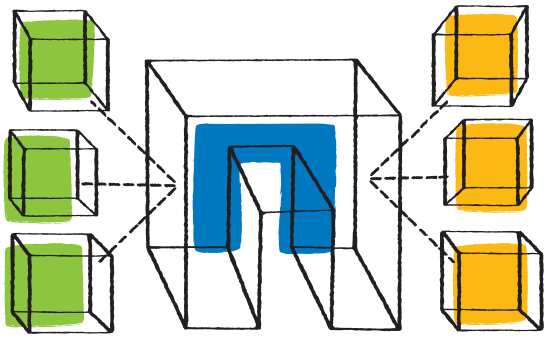
NetApp®



Solution Brief

NetApp Solution for Microsoft Virtualized Environments

KEY BENEFITS

Maximize Efficiency
Use 50% less storage, guaranteed*.

Accelerate Time to Market
Provision your storage as quickly as your virtual machines.

Achieve Intelligent Management
Deliver automated, policy-based storage provisioning, efficiency and protection.

Achieve Nondisruptive Operation
Maintain operations during storage infrastructure maintenance and upgrades and easily scale storage without taking systems offline.

Microsoft Partner Network

2012 PARTNER OF THE YEAR
Private Cloud Partner of the Year
Winner

Microsoft Partner

Gold Independent Software Vendor (ISV)
Gold Messaging
Gold Portals and Collaboration
Gold Content Management
Gold Data Platform
Gold Business Intelligence
Gold Server Platform
Gold Communications
Silver Virtualization

The Challenge

Maximize the benefits of your virtualized server environment

The scope, scale, and complexity of today's data-driven world create new demands in the data center. Poor server and storage utilization leads to overinvestment in hardware and operational inefficiencies. Windows Server® 2012 virtualization enables you to optimize your server environment. To maximum your benefit from server virtualization, you also need to optimize your storage infrastructure and data protection solution.

The Solution

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

With an agile data infrastructure from NetApp you get more efficient, scalable, and reliable data storage and cut costs simultaneously. At the same time, you are laying the groundwork for an extension to a private cloud environment, as business needs dictate. NetApp® enables you to get the most out of your Microsoft® environment by extending the value of Windows Server 2012 with our unique storage efficiency technologies.You can easily consolidate data from multiple Microsoft virtualized environments onto a unified storage architecture supporting FC, FCoE, and iSCSI SAN protocols.

NetApp storage complements Microsoft data protection capabilities with simplified, automated backup, recovery, and disaster recovery to provide best-in-class policy-based data protection. As the need arises, you can extend your storage solution to add functionality for disk-based backup vaulting and other capabilities.

Improve business results

You can improve your bottom line with NetApp storage solutions for Microsoft virtualized environments. You save money through improved storage utilization, intelligent management, and increased productivity. Your system is more reliable and agile. You're able to grow as business needs dictate, without disrupting the system or your end users. You're better able to accommodate testing and perform short-term projects. And when unforeseen disruptions occur, you can recover rapidly. Plus you've made forward-looking investments that you can leverage for an extension to a private cloud environment, as business needs dictate.

CHALLENGE	NETAPP SOLUTION
Increase data protection	With NetApp integrated data protection solutions, you can flexibly add in the data protection services you need for your business, whether it's backup recovery, disaster recovery, or archive and compliance. To maximize the value of your data protection investment, NetApp FlexClone® technology lets you instantly clone VMs at remote sites, converting read-only volumes into writable copies that can be used for disaster recover, business intelligence, and dev/test environments, all while using up to 90% less space than physical copies. NetApp OnCommand® Site Recovery extends existing Windows Server Failover Cluster services to provide a native unattended failover in the event of a failure without the need for complex scripting.
Maximize efficiency	NetApp complements Microsoft VMs by virtualizing the underlying storage environment, consolidating hardware, and providing the same efficiencies for storage that Hyper-V does for servers. You can dynamically provision and resize storage, deduplicate redundant data, and create space-saving Snapshot™ copies of VM data for rapid backups.
Achieve nondisruptive operation	NetApp storage combined with SnapManager® or SnapProtect® software let you add storage and expand volumes without taking storage systems offline. By clustering NetApp storage systems, you can maintain VM uptime during storage infrastructure maintenance and upgrades. This enables you to keep pace with your company's growing storage needs without disrupting VM availability.
Achieve intelligent management	NetApp helps you automate administrative tasks so you can manage and schedule Snapshot backups of VMs and their application data. You can even set policies at the VM level and monitor and provision VM capacity through Microsoft System Center Virtual Machine Manager. Our Snapshot copies are application-aware for each VM, so your recovery is always consistent and complete. Through our integration with leading backup and recovery partners, NetApp enables customers to easily manage Snapshot copies, replication to off-site storage, and tape management with a single backup management framework. In addition, the combination of Data ONTAP® and Windows PowerShell™ 2.0 scripting enables administrators to automate management of LUNs and volumes.
Accelerate VM provisioning	With FlexClone, you can create space-efficient copies of VMs and then accelerate your VM deployment through Rapid Provisioning Windows PowerShell cmdlets and OIP plug-ins from OnCommand plug-in for Microsoft.
Provide multi-tenancy, virtualization, and the cloud	Deploy virtualization as a foundation for private cloud environments to achieve the high efficiency and cost savings that multi-tenancy can provide. Data ONTAP offers data compartmentalization for all tenants, with each granted access only to its own designated storage container. Rich support for Data ONTAP, SnapManager, and OnCommand plug-in for Microsoft based on Windows PowerShell empowers administrators to develop automated workflows to support your multi-tenant environment.
Respond quickly to data growth	With NetApp FlexVol® thin provisioning, you can cost-effectively expand and reallocate storage while increasing efficiency through deduplication of active data without interfering with business operations. Clustered Data ONTAP allows you to nondisruptively move your data within your storage cluster to meet the changing needs.
Partner for success	NetApp Professional Services for Microsoft Applications offers a wide range of services, including virtualized environment design and implementation on the NetApp storage platform, disaster recovery, and high availability, as well as data migration to help customers achieve a successful deployment. Service engagements are delivered through NetApp Global Support in combination with a global partner ecosystem.

See your solution in action

To see how well our storage and data management solutions can support your Microsoft Windows 2012 Hyper-V™ environment, visit any Microsoft Technology Center. NetApp Global Services and our extensive partner network can assist you in planning and implementing an agile data infrastructure for your Microsoft virtualized environment. Contact your NetApp representative for more information.

For more information about NetApp Microsoft solutions, go to *www.netapp.com/microsoftsolutions.*

*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.

Use of the word "partner" or "partnership" does not imply a legal partnership between NetApp and any other company.

About NetApp

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

Go further, faster®

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