NetApp and VMware:
Business-Critical Applications

KEY HIGHLIGHTS

Drive Strategic Value with NetApp and VMware for Your Business-Critical Applications

NetApp FAS and V-Series storage arrays have been fully tested and certified for use in Fiber Channel and IP-based VMware environments. Benefits of implementing NetApp storage integrated with VMware virtualization include:

- Provision cloud-based services in 24 hours or less; reduce storage provisioning time from hours to minutes
- Enable "five-nines" availability of IT services
- Boost application availability with zero performance impact
- Scale your virtualized environment without traditional storage restraints or additional storage investment
- Reduce IT storage management costs by up to 60%
- Use 50% less storage—**guaranteed**
- Reduce power and cooling requirements
- Rapid recovery of application data

Business-critical applications may be the lifeblood of your business. But within IT, the challenge of managing those applications can become increasingly burdensome. Some of the issues you may face today include:

- Your environment is growing in size and complexity, making it increasingly difficult to contain costs and/or meet service level agreements
- Data protection technologies may negatively impact the performance of your production servers
- High availability, backup, recovery, disaster recovery and archiving may be increasingly complex and costly; meeting Recovery Point Objectives or Recovery Time Objectives may be difficult or impossible for your business-critical applications
- You may be struggling to provision IT resources quickly enough to meet your business' requirements
- You lack end-to-end visibility into your application, server, network and storage systems

NetApp and VMware enable your IT organization to streamline the virtualization of applications most important to your company's business, enabling your IT organization to:

- Optimize IT resources and system capacity
- Improve service levels
- Boost system performance
- Reduce operational and energy costs
- Transform datacenters into dramatically simplified cloud computing infrastructures
- Achieve high availability and business continuity
- Simplify infrastructure management
- Reduce storage management costs

Answers for Tier 1 Applications

VMware and NetApp virtualization solutions are proven, future-proof data center technologies that will enable you to confidently and securely virtualize the applications that power your business.

With our integrated solutions, you will enable a more flexible, manageable and efficient infrastructure. You will streamline provisioning and become more responsive to business requests. You'll improve your ability to protect data and raise your standards for Business Continuity, High Availability and Disaster Recovery. Key business applications you can deploy with this technology include:

Microsoft®

By combining NetApp unified storage hardware and software with VMware technology, you can virtualize your Microsoft® applications, including Microsoft Exchange, Microsoft SQL Server® and Microsoft SharePoint® Server. Deploy these applications on NetApp storage across any storage profile, including Fiber Channel, iSCSI or Network File System.

KEY HIGHLIGHTS

Proven Solutions

Many of the world's most successful clouds are built on integrated NetApp and VMware platforms.

Here are some examples of how customers have benefited:

- ExamWorks avoided over $1M in IT staffing costs while saving nearly 500K in capital and operational expenses
- Telstra boosted storage utilization from less than 30% to more than 65%—with half the footprint
- T-Systems deployed SAP in eight hours, instead of six to nine weeks
- DCI reduced its data center footprint by over 75% and cut its annual power/cooling costs by $125K
- LexisNexis automated data protection operations, decreasing its customer data management costs by as much as 30%
- Activision achieved robust disaster recovery capabilities and reduced its DR test processes by 80%
- Sensis reduced time-to-market for new services from weeks to days

SAP

NetApp and VMware have a reference architecture and best practices framework that lets you transition your existing or new SAP infrastructure to a dynamic, flexible cloud computing platform. This solution allows you to perform live migrations without disrupting users.

Fully Integrated Offering Combines Virtualized Infrastructure and Flexible Storage

VMware's Cloud Infrastructure solutions coupled with NetApp's flexible, efficient storage foundation deliver scalability, performance and enhanced data protection for the most resource-intensive applications.

Industry Leading Virtualization and Storage Solutions

Improve resource, operational and management efficiencies and drive down overall costs with industry-leading virtualization and storage solutions.

- VMware® vSphere™ 5.0: Scale virtual machines up to 32 vCPUs and 1 TB of RAM
- VMware ESXi Hypervisor: The gold standard in hypervisor architectures
- VMware High Availability (HA): Increase the baseline level of availability for all of your applications and ensure service level agreements are met
- VMware® vCenter Site Recovery Manager™: Automate recovery processes and eliminate the complexity of managing and testing recovery
- NetApp's unified architecture: Simplify storage and data management operations and reduce storage costs while improving performance in both SAN- and NAS-based VMware infrastructures
- NetApp's unmatched storage efficiencies. NetApp guarantees a minimum of 50% storage savings in virtualized environments
- NetApp plug-ins VMware® vCenter™ and VMware® vCloud Director™. Achieve "single pane of glass" management efficiencies and infrastructure visibility

Automated Data Protection and Application Mobility

Protect your virtual infrastructure and applications with automated data protection and application mobility for continuous operations at minimum cost and impact.

- Empowers Virtual Infrastructure Administrators to centrally manage backup, recovery and replication of virtual machines through VMware vCenter—with no performance impact
- Provides reliable, repeatable automated Disaster Recovery workflows (failover and failback) for the highest availability of applications, along with zero cost, zero downtime disaster recovery testing
- Achieves non-stop operation with non-disruptive data and application mobility, even over extended distances
- Delivers end-to-end advanced data protection, including unified data management of virtual machines and applications

Increased Business Flexibility

Increase business flexibility; respond faster to changing business and application needs with a scalable, dynamic virtual infrastructure.

- Provides ease of integration with management, automation, orchestration and cloud platforms
- Slashes time to provision a system and activate new applications from weeks to days/hours
- Manages service delivery and SLAs through intelligent policy-based provisioning and protection
- Relies on accurate forecasting and capacity planning to avoid over-provisioning
- Accelerates management decisions based on real-time information
- Improves quality and time to service delivery by accelerating application dev/test from weeks to minutes

For More Information

For more information on our integrated solutions, visit

http://www.netapp.com/us/partners/alliance-technology/global-alliance/vmware-partnership.html

Additional Resources

Virtualization–The Catalyst for Change: Best Practices for Virtualizing IBM DB2 with Technologies from VMware, Intel, and NetApp: http://media.netapp.com/documents/wp-7109.pdf

Oracle Dev/Test on VMware vSphere and NetApp Storage: http://media.netapp.com/documents/tr-3861.pdf

MS Exchange Server, SQL Server, and SharePoint Server Mixed workload on VMware and NetApp: http://media.netapp.com/documents/tr-3785.pdf

Disaster Recovery of MS Exchange, SQL Server, and Share Point Server with VMware Site Recovery Manager and NetApp SnapManager: http://media.netapp.com/documents/tr-3822.pdf

Microsoft Exchange 2010 with VMware vSphere on Cisco and NetApp: http://www.cisco.com/en/US/docs/solutions/Enterprise/Data_Center/App_Networking/Exchange_VSphere_UCS_NetApp.html#wp274268

Gartner/Burton Report: Email Servers and Virtualization: http://www.netapp.com/us/media/techtalk/bgr-email-servers-virt.html

ESG Report: Deploying Microsoft Exchange 2010 in a Virtualized Environment with NetApp Networked Storage http://www.netapp.com/us/library/white-papers/wp-deploying-ms-exchange-2010.html

Forrester Report: Exchange 2010—An Upgrade Worth Considering: http://media.netapp.com/documents/wp-exchange-201001.pdf

Exchange 2010 on VMware: http://communities.netapp.com/docs/DOC-7535

Marvell Engages NetApp for Seamless, Cost-Saving Transition to Exchange 2007 on VMware: http://media.netapp.com/documents/marvell-technology-group.pdf

Roundtable Report: DR for Microsoft Applications with VMware SRM and NetApp: http://www.netapp.com/us/media/tech-ontap/tot-dr-msapps-1006.html