

HP Disaster Recovery Solutions with VMware vSphere 4

Rethink your approach to disaster recovery

Solution brief

Minimize risk as you keep your business running

Enterprises such as yours depend on rapidly evolving technology to keep business operations connected, drive revenue, and support customer demands. Yet many organizations' business continuity and disaster recovery plans are outdated and rigid. As your organization deals with constant changes—such as operational growth, expansion from mergers or acquisitions, new business processes, and shifting personnel—your IT infrastructure might not be in a position to recover from a disaster. If that's the case, the entire enterprise may be at risk—and it's probably time to focus on this issue.

The trouble is that traditional disaster recovery solutions are often costly and complex. Even if you double your server and storage (and cost) for protected applications, the expansion still might not meet your recovery objectives. If your storage capacity at the recovery site isn't efficiently utilized, your costs may be impacted even more. Plus, when you test your recovery plans, the steps are often tedious and the documentation hard to maintain—and keeping two sets of hardware in sync is nearly impossible.

HP and VMware® virtualization solutions can help. You can achieve rapid, reliable, and automated disaster recovery between your primary production and secondary recovery sites by deploying HP Disaster Recovery Solutions with VMware vSphere™ 4. These solutions leverage HP StorageWorks SAN solutions and advanced replication technologies, integrated seamlessly with VMware vCenter™ Site Recovery Manager.

A flexible, comprehensive approach to disaster recovery

When you deploy HP Disaster Recovery Solutions with VMware vSphere, you gain a flexible approach to disaster recovery that delivers increased server utilization, simplified management, and the peace of

mind that comes from knowing your business will keep running in the event of a disaster. This comprehensive solution has three main components:

- HP StorageWorks SAN solutions with data replication software
- VMware vSphere from HP
- VMware vCenter Site Recovery Manager from HP

HP StorageWorks SAN solutions

HP offers a range of efficient HP StorageWorks SAN storage solutions that properly support the advanced requirements of virtualized environments. The comprehensive suite of replication software from HP lets you protect your valuable data by replicating between HP StorageWorks SAN systems. It also provides ease of management, and efficient storage and network resource utilization. HP array-based replication software is fully integrated and certified with VMware through HP Storage Replication Adapters (SRAs) for VMware vCenter Site Recovery Manager.

VMware vSphere and VMware vCenter Site Recovery Manager from HP

With VMware vSphere and VMware vCenter Site Recovery Manager, you are able to build, manage, and execute reliable disaster recovery plans. As an optionally integrated element of VMware vSphere, VMware vCenter Site Recovery Manager helps you to:

- Accelerate recovery for the virtual environment through automation
- Promote reliable recovery by enabling non-disruptive testing
- Simplify recovery by eliminating complex manual recovery steps and centralizing management of recovery plans

Finally, VMware vCenter Site Recovery Manager integrates with HP StorageWorks array-based replication software to simplify and remove the risk and worry from disaster recovery.



HP Disaster Recovery Solutions with VMware vSphere meet a variety of business needs

Regardless of the size or breadth of your organization, HP Disaster Recovery Solutions with VMware vSphere deliver complete protection of the systems, data, and applications that run your business.

Enterprises

Large, geographically dispersed firms can build disaster recovery solutions based on the powerfully simple HP Enterprise Virtual Array (EVA). The EVA allows you to virtualize everything for no stranded capacity or performance—while seamlessly provisioning your storage as you grow your application environment. HP StorageWorks Command View software offers ease of management, which means less time spent on maintenance and administrative intervention. By adding the HP StorageWorks SAN Virtualization Services Platform (SVSP)—a network-based virtualization application—you can improve asset utilization by 300%, simplify operations, and lower your total cost of ownership (TCO) by enabling the pooling and sharing of your choice of storage resources.

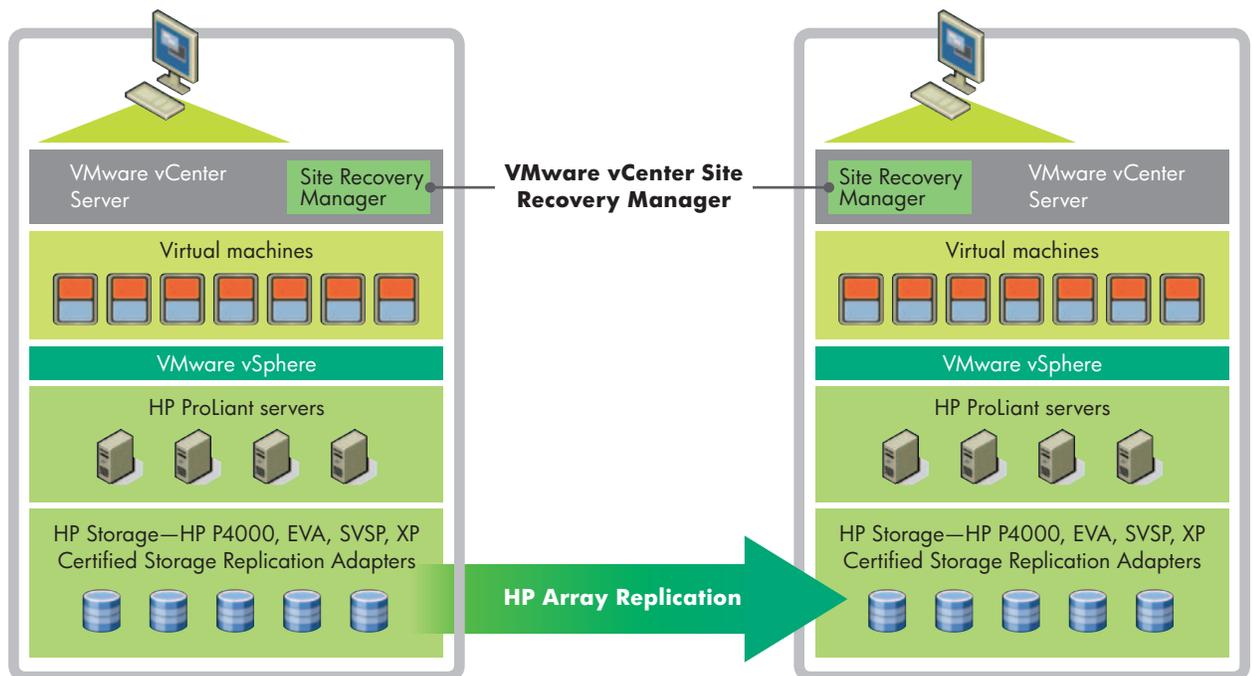
The HP Disaster Recovery Solution for enterprises includes:

- VMware vCenter Site Recovery Manager for fast, reliable, and automated disaster recovery capabilities
- VMware vSphere data center virtualization platform
- HP StorageWorks EVA 6400/EVA 8400 with built-in virtualization to support the most critical enterprise applications
- HP StorageWorks Continuous Access EVA/SVSP Software to replicate data over distance, along with HP Storage Replication Adapters for VMware vCenter Site Recovery Manager
- HP ProLiant or HP BladeSystem servers
- HP ProCurve or 3Com IP network switches
- HP reference architectures, best practices, and technical white papers

Midsize businesses

HP Disaster Recovery Solutions with VMware vSphere for midsize businesses are based on HP StorageWorks P4000 G2 SAN solutions, which are optimized for database and email applications as well as for virtualized servers. With a pay-as-you-grow, all-inclusive pricing model (including three years of

Disaster Recovery with HP StorageWorks and VMware vCenter Site Recovery Manager





support) and intuitive storage management, this SAN is perfect for the budget-minded. The P4000 G2 SAN is built on a storage clustering architecture that scales capacity and performance in a linear fashion without incurring downtime or performance bottlenecks—or forcing expensive upgrades. And reservation-less thin provisioning substantially increases your storage utilization.

The HP Disaster Recovery Solution for midsize businesses includes:

- VMware vCenter Site Recovery Manager for fast, reliable, and automated disaster recovery capabilities
- VMware vSphere data center virtualization platform
- HP P4000 G2 SAN solution for cost-effective, scalable, highly available SAN storage
- HP Remote Copy software (included with P4000 G2 SAN) for capacity- and network-efficient asynchronous data replication, along with HP Storage Replication Adapters for VMware vCenter Site Recovery Manager
- HP ProLiant or HP BladeSystem servers
- HP ProCurve or 3Com IP network switches
- HP reference architectures, best practices, and technical white papers

Remote and branch offices

Cost-effective disaster recovery can be implemented in remote locations or branch offices by using the HP StorageWorks P4000 Virtual SAN Appliance software (VSA) and VMware vSphere. The VSA combines the benefits of a physical SAN with the ability to transform server disk drives or attached external storage and create a virtual iSCSI SAN. As a result, you can eliminate the costs and complexity of purchasing a new SAN system. The VSA includes Remote Copy software for asynchronous data replication to a VSA or P4000 SAN at other sites. The VSA installs easily on any VMware host server, including more than 100 HP ProLiant rack and HP BladeSystem servers. It is certified with VMware vCenter Site Recovery Manager to simplify and automate recovery processes.

The HP Disaster Recovery Solution for remote/branch offices includes:

- HP StorageWorks P4000 Virtual SAN Appliance software
- VMware Essentials Plus
- VMware vCenter Site Recovery Manager
- HP ProLiant or HP BladeSystem servers
- HP ProCurve or 3Com IP network switches

Why HP Disaster Recovery solutions?

HP has the experience in disaster recovery solutions and VMware environments to provide a solution that meets your particular business needs. Key advantages of the HP Disaster Recovery solutions with VMware include:

- **Reduced costs by automating and simplifying disaster recovery**—With the combination of HP remote replication technologies, VMware vSphere, and vCenter Site Recovery Manager, you can more easily manage and implement your recovery plan.
- **Increased agility with a flexible virtualized infrastructure that adapts to changing business needs**—HP storage, compute, and network virtualization solutions, combined with VMware vSphere, enable you to optimize every data center resource and respond to business requests faster and more effectively.
- **Decreased deployment time and risk with predictable results**—HP reference architectures, best practices, and technical white papers provide a foundation that enable you to quickly and accurately deploy a disaster recovery solution.

Tested, proven solutions from VMware

As a VMware Global Technology Alliance Partner, HP works closely with VMware engineering teams to certify, integrate, and validate HP StorageWorks devices with VMware technologies. HP engineering teams produce a wealth of VMware-specific best practices guides, reference architectures, technical white papers, and solution blocks to reduce risk and lessen the time and effort needed to deploy solutions that combine HP and VMware products. These documents cover not only storage, but also the server, networking, and application aspects of the solution.

To learn more

Together, HP and VMware have tested, validated, and documented our joint solutions. For more information about HP Disaster Recovery Solutions with VMware or other joint HP and VMware solutions, please contact your HP sales representative or channel partner, or visit: www.hp.com/go/vmware

Share with colleagues



Get connected

www.hp.com/go/getconnected

Get the insider view on tech trends, alerts, and HP solutions for better business outcomes

© Copyright 2010 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

VMware is a registered trademark or trademark of VMware, Inc., in the United States and/or other jurisdictions.

4AA2-1230ENW, Created July 2010; Updated August 2010, Rev. 1

vmware®
READY

Business Partner

