

How can VMware and CA help us maximize the availability, business value and resiliency of our IT infrastructure?



vmware®



The background of the slide is composed of several large, overlapping triangles in various shades of green and blue. The top-left corner is a dark green triangle. A large, light green triangle covers the upper right and middle sections. A medium green triangle is positioned below the light green one. In the bottom-left corner, there is a blue triangle. The overall design is modern and geometric.

VMware Virtual Infrastructure and
CA Recovery Management team up to
deliver higher availability and risk-resistance
for business-critical information and
applications, while lowering management
and operational costs and complexity.

Overview

Challenge

Your business relies on its IT infrastructure to effectively manage your computing systems and critical applications, yet you must also find innovative ways to optimize your limited resources and minimize system downtime — both scheduled and unplanned. The challenge lies in striking the right balance between cost and risk as you seek to optimize your limited resources while maintaining availability of critical systems and applications.

Solution

Your business needs a solution that provides robust and cost-effective management of your critical IT assets. CA Recovery Management coupled with VMware Virtual Infrastructure provides a best-in-class solution to optimize and manage your IT infrastructure and improve business continuity. This solution enables you to virtualize your existing technology and resources to gain efficiencies. In addition, you can implement a powerful, multi-layered business continuity solution for both your physical and virtual systems that covers a wide range of contingencies.

Benefits

VMware Virtual Infrastructure and CA Recovery Management reduce costs, complexity and risk by enabling you to implement a disaster recovery solution across a virtualized IT environment. Your business is protected even when high cost and complexity make traditional business continuity approaches unfeasible. Together, the CA Recovery Management and the VMware Virtual Infrastructure improves operational efficiency and dramatically reduces the total cost of ownership by offering a simple and flexible business continuity solution.

CA Advantage

The combination of VMware Virtual Infrastructure and CA Recovery Management offers the flexibility, functionality and interoperability your enterprise needs to maximize the business value of its IT investments. The VMware-CA solution provides comprehensive management and protection of physical and virtual servers and the business-critical applications and information they host. The solution also enhances your enterprise's abilities to deliver more effective and economical business continuity (BC), disaster recovery (DR) and high availability (HA). This means your enterprise can be more agile, disaster-resistant, productive and responsive to both challenges and opportunities. In addition, CA Recovery Management includes integrated features for automated DR plan testing, to ensure that backed up information can be recovered. The VMware-CA solution also demonstrates and is supported by a strong commitment by VMware and CA to delivering solutions that work for enterprise customers and the channel partners supporting them. That commitment includes a robust ecosystem of shared industry allies and value-enhancing services.

Next Steps

Your IT infrastructure is critical to the survival and success of your business. The combined solution from VMware and CA provides essential protection for data and applications while delivering maximum business value from your company's IT investments. Visit <http://www.ca.com/vmware> or contact your local solution provider today to learn more about how this powerful combination of solutions can help secure vital information and continuity of IT resources for your business.

CHALLENGE

Getting the Greatest Business Value out of IT

Virtualization and Protection: Critical Elements of Effective Response

As an IT professional, you know that your business has four critical IT-related requirements. Your IT infrastructure must support the deployment of servers on a stable platform, at reasonable cost, as needed. It must be able to manage all of them, physical and virtual, comprehensively and proactively. It must also be able to deliver the highest levels of protection from disasters and other threats. Finally, it must allow rapid and complete recovery from those threats — with no loss of data integrity or business continuity.

To achieve these goals you need a comprehensive, integrated set of product solutions for both physical and virtual server deployments to support an effective business continuity-disaster recovery (BC/DR) implementation. These solutions must be flexible and configurable for easy adaptation to a variety of complex businesses, infrastructures and processes. They must be highly automated to maximize operational efficiency and to minimize costs and the potential for human error. And they must be economical, generating initial and sustained return on investment (ROI) while reducing risk and increasing application availability.

Above and beyond all of this, your business needs solutions that can easily grow and adapt to dynamic business requirements. This means those solutions must be significant elements of an effective IT management architecture that combines people, processes, services and technologies in ways that address critical business needs, today and tomorrow.

SOLUTION

The VMware-CA Solution: Comprehensive, Integrated and Effective

VMware and CA have joined forces to deliver the functionality, integration and economy your business wants and needs. VMware Virtual Infrastructure, featuring VMware ESX Server and VirtualCenter, is a widely used, broadly supported suite of tools that provides virtualization of network, server and storage environments while enabling multiple operating systems and applications to run on virtual servers sharing physical resources. With VMware Infrastructure, businesses report increasing hardware utilization by as much as 50 to 70 percent, while decreasing operating costs by similar amounts. A recent VMware customer survey found that 63 percent of VMware customers are using VMware Infrastructure in a BC/DR capacity.

VMware Infrastructure includes the VMware ESX Server virtualization platform, as well as additional tools that provide powerful and valuable features to business IT infrastructures:

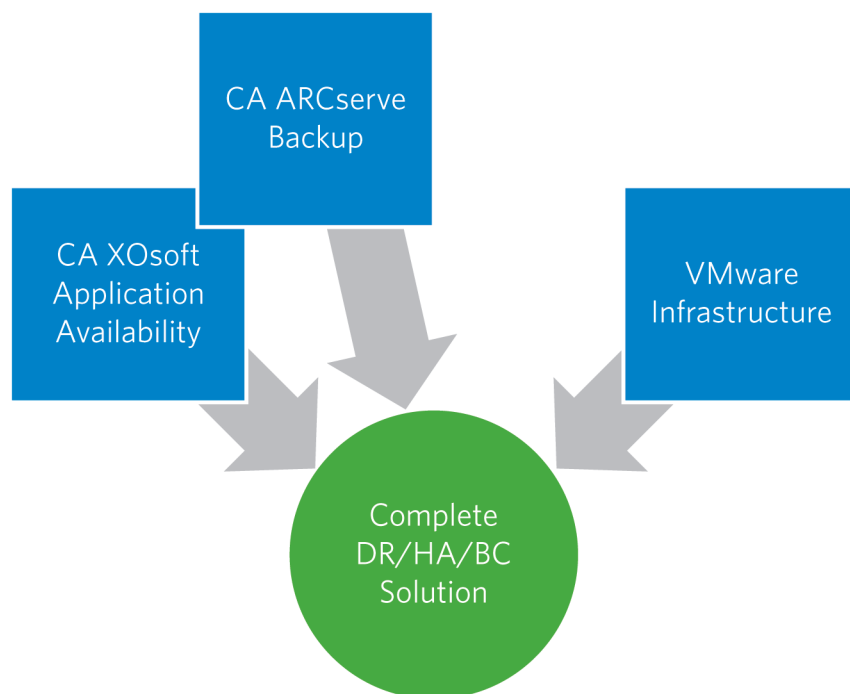
VMware VMFS	A high-performance cluster file system for storage virtualization
VMware Virtual SMP	Enables multi-processor support for virtual machines
VMware VirtualCenter	Gives you centralized IT infrastructure automation, management and optimization
VMware HA	Delivers cost-effective high availability for virtual machines
VMware DRS	Offers dynamic resource allocation and balancing for virtual machines

VMware VMotion	Enables live migration of virtual machines without interruption of service or operations
VMware Consolidated Backup	Delivers consolidated data protection through industry leading solutions like CA ARCserve Backup CA Recovery Management complements and extends the capabilities, features and benefits of VMware Infrastructure by delivering comprehensive, integrated protection and recovery features for physical and virtual servers, applications and information. CA Recovery Management combines proven, powerful solutions — CA ARCserve® Backup and CA XOsoft™ WANSync™HA.
CA ARCserve® Backup	A high-performance, proven backup and recovery solution for a wide range of operating environments. It combines innovative "D2D2T" (disk-to-disk-to-tape) backup with powerful, integrated anti-virus and encryption tools, making it the most secure "out-of-the-box" backup solution on the market.
CA XOsoft™ WANSync™HA	A high-availability business continuity solution based on asynchronous, real-time data replication with automatic failover and failback. It also offers integrated continuous data protection to guard against data corruption, and automated DR testing to help ensure the recoverability of your critical business data and applications. And it supports a wide range of those applications, on both 32- and 64-bit Microsoft Windows servers.
CA ARCserve® Backup for Laptops and Desktops	Delivers transparent backup and restoration of data on Microsoft Windows-based laptop and desktop computers. Designed to scale from small departmental environments to large worldwide enterprises, it is easy to use and offers the advanced technology required to protect the environment without excessive hardware or staffing costs. The solution also offers extensive protection against data loss or theft, human error and other challenges, whether PCs are in the office or on the road.

FIGURE A

Figure A depicts the backup and recovery product elements detailed above and how they combine to create a complete data protection solution for both your physical and virtual servers.

CA AND VMWARE WORKING TOGETHER



BENEFITS

“CA is delivering on its promise to expand its next-generation recovery management platform with the integration of continuous data protection, replication and automated failover capabilities in its CA XOssoft WANSyncHA application availability solution.”

Enterprise Strategy Group (ESG)
February 2007 Research Brief

Real Benefits, Now and into the Future

Your business needs the best available solutions to maximize business continuity and IT investment value while minimizing risk.

VMware Virtual Infrastructure coupled with CA Recovery Management addresses these challenges simply and cost effectively. Going beyond disaster recovery and high availability, VMware Virtual Infrastructure and CA Recovery Management together provide a powerful, multi-layered business continuity solution that covers a wide range of contingencies.

VMware Virtual Infrastructure and CA Recovery Management reduce business risk by allowing protection of more systems than previously possible and by preventing lapses in protection as new systems are implemented. By making DR possible when it would otherwise not be feasible, this solution improves operational efficiency by letting you assign continuity to the stand-by site that works best for the business, rather than the site that technology dictates. This approach enables you to gain flexible control over your IT infrastructure while dramatically reducing the total cost of ownership for contingency planning.

Together, VMware and CA significantly improve management of your physical and virtual servers. The combined VMware-CA solutions ease deployment, increase availability of applications and servers and make them more resistant to threats, potential disasters and other challenges. In addition, VMware and CA solutions help to enable, support and accelerate a variety of key IT initiatives, from data center and server consolidation to application roll-outs and upgrades. VMware and CA help your business reduce costs, operational risks and staffing and training requirements.

“The business value proposition of any new technology must be justified in terms of cost-savings, risk reduction and top line growth,” says Jon Toigo, CEO of industry watchdog and consumer advocacy Toigo Partners International. “The simple fact is that VMware’s business value is dramatically enhanced by the resiliency capabilities introduced by CA XOssoft. For what complexity VMware drives out of server infrastructure management, there is a corresponding increase in the complexity of the virtualized server environment from a business continuity standpoint that must be addressed economically and effectively. CA XOssoft is just what the doctor ordered to realize the cost savings of server virtualization without increasing business risk.”

Enterprise Strategy Group (ESG), a leading market-watcher, highlighted the strengths of CA Recovery Management in a February 2007 Research Brief. “CA is delivering on its promise to expand its next-generation recovery management platform with the integration of continuous data protection, replication and automated failover capabilities in its CA XOssoft WANSyncHA application availability solution [and] its ARCserve Backup traditional backup and recovery. The combined offering provides a continuum of data protection tools to meet all recovery objectives and more closely aligns data protection and business requirements in one easy-to-manage package.”¹

¹ Whitehouse, Lauren, “CA Bundles Up: Integrates CA ARCserve and CA XOssoft WANSyncHA,” Business Strategy Group (ESG), Feb. 7, 2007.

NEXT STEPS

Next Steps: Your BC, DR and HA Readiness

You know your IT infrastructure, including its applications, servers and data, is the most critical and irreplaceable source of information for your business. You also know that:

- Virtualization is an ever-growing fact of life in businesses of all sizes and types
- BC, DR and HA are increasingly necessary to protect business-critical IT-based resources
- It's only going to get more challenging

In collaboration with their extensive network of channel partners and resellers, VMware and CA can help your business operate a more economical, flexible, responsive and well-managed IT infrastructure. With VMware and CA, you will be able to do more — better and more efficiently — today and tomorrow.

If you're ready to take a closer look at the combined solutions for business continuity, data recovery, high availability and server provisioning and management offered by VMware and CA, please visit the websites listed below.

To learn more and see how VMware and CA solutions enable organizations to deploy, manage and protect business servers for better business results, visit ca.com/vmware or vmware.com/ca.

CA, one of the world's largest information technology (IT) management software companies, unifies and simplifies complex IT management across the enterprise for greater business results. With our Enterprise IT Management vision, solutions and expertise, we help customers effectively govern, manage and secure IT.



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