

Virtual Server Data Protection and High Availability

WHILE SERVER VIRTUALIZATION REDUCES IT INFRASTRUCTURE COSTS, IT ALSO ADDS COMPLEXITY TO PROTECTING THE WIDE RANGE OF APPLICATIONS INSTALLED ON THE VIRTUAL MACHINES AND THE EVER-INCREASING VOLUMES OF DATA CREATED. DISRUPTIONS TO SYSTEM AND APPLICATION AVAILABILITY AND LOSS OF DATA TYPICALLY TRANSLATES TO LOSS OF REVENUE, LOWER CUSTOMER SERVICE AND EMPLOYEE PRODUCTIVITY, AND EVEN LOSS OF REPUTATION. ORGANIZATIONS NEED MORE THAN BASIC BACKUP TO PROVIDE BUSINESS PROTECTION IN TODAY'S FAST PACED ENVIRONMENT. THEY SEEK FASTER RECOVERY TIMES WITH CONTINUOUS DATA PROTECTION AND HIGH AVAILABILITY TO SUPPORT THEIR DEMANDING SERVICE LEVEL AGREEMENTS AND DISASTER RECOVERY STRATEGIES.

CHALLENGES

Protecting virtualized servers, whether they are VMware, Microsoft Hyper-V or Citrix XenServer, requires more than backup and restore alone can provide. Some virtualization vendors provide data protection capabilities but they only work on their own platform. Point solutions are not cost-effective, and they make managing a mixed environment complex. And what about protecting physical servers?

PRODUCT INFO

The CA ARCserve® Family of Products helps ensure the reliability and availability of your virtualized environment. It provides fast backup, granular recovery, replication and high availability of physical and virtual environments with easy-to-use tools, and innovative technology that offers exceptional flexibility. You get protection at the Hypervisor, Guest & virtual machine levels along with visualization of the entire ecosystem to ease management along and provides .

BENEFITS

With the CA ARCserve Family of Products, organizations have more control over their virtualized environment to meet demanding service level agreements and disaster recovery strategies. The ARCserve Family of Products helps eliminate downtime, providing total system and data protection, and speeds recovery of virtualized servers and data. It enables companies to easily manage and maintain their virtual servers without disruption to ongoing business operations.

Today, many businesses, government agencies and education institutions face the daunting task of protecting the information created by applications installed on virtual servers. Historically, some of these organizations have utilized a software backup solution, but the process of virtual server backup and restore is not the same as that performed on physical servers with only one application installed. Some backup solutions don't offer the restoration granularity required for quick restore and others demand full VM restore to temporary disk space—even to recover a single file. Backup to tape adds additional time in finding and mounting the correct tape before the process can even begin. And then, most organizations run backups on a daily or weekly basis which may not really support the desired recovery point objective (RPO) -- which is the amount of data an organization is willing to risk losing between periodic backups. Organizations today are turning to other complementary solutions like VSS Snapshots, replication and continuous data protection, referred to as CDP, especially for critical applications and data or more important user groups.



The Solution: CA ARCserve Family of Products

The CA ARCserve® Family of Products gives you control over your virtualized environments by delivering total protection, recovery and availability for your virtualized application servers, applications and data. The CA ARCserve Family of Products is the only solution that offers a full range of products from Bare Metal Restore to fully automated failover for High Availability. You get a complete strategy to manage backup, recovery and availability in both virtual and physical environments.

CA ARCserve® Backup goes beyond backup, giving small and medium-sized businesses highly reliable data protection with centralized management that makes sense, no matter how complex your data or IT infrastructure is – at a fraction of the cost of the competition. Reduce your backup storage by up to 80 percent and gain back precious time with the only product that combines data deduplication, granular restore of applications like Active Directory, Exchange and SharePoint, and infrastructure visualization – for both physical and virtual servers in a single package. It offers auto-discovery of your VMware and Hyper-V virtualized server environment and enables image-based backups with granular restore without the need for a staging server.

CA ARCserve® D2D is a new disk-based recovery product designed to provide the perfect combination of fast and reliable protection and recovery for all of your business information, on both physical and virtual servers. A unique, innovative Web 2.0 interface proactively feeds you updates that let you confidently meet and manage your recovery SLAs. It is the only product that has Bare Metal Restore to dissimilar hardware and block-level infinite incremental snapshots, based on CA's patent-pending I² Technology™ in one package.¹ Like data deduplication, I² Technology™ will drastically reduce your virtual server backup window, network traffic and disk storage and load on your production applications. Companies that already have an installed backup system can use CA ARCserve D2D to improve their recovery time.

CA ARCserve® Replication, formally known as CA XOSoft™ Replication, provides continuous data protection along with an easy way to migrate or copy data between servers and locations, whether physical or virtual. It enables quick and easy data consolidation between remote offices and a central site for secure backup and archiving. CA ARCserve Replication delivers LAN and WAN continuous and periodic replication, for onsite and offsite data protection. Combined with its data rewind feature, it offers continuous data protection (CDP) to complement any periodic backup solution, helping speed recovery and minimize data loss. CA ARCserve Replication also includes CA ARCserve® Assured Recovery™ for automated non-disruptive recovery testing.

CA ARCserve® High Availability, formally known as CA XOSoft™ High Availability provides application and data high availability along with continuous data protection and helps maximize system, application and data uptime and availability for virtual and physical environments. CA ARCserve High Availability includes all CA ARCserve Replication features and adds real-time server and application monitoring, automated and push-button failover and push-button failback. Monitoring works at both server and application levels so unlike other high availability solutions, CA ARCserve High Availability responds to issues at the application level. It also enables you to test and then safely migrate from physical to virtual servers. CA ARCserve Assured Recovery, a key feature, provides automated non-disruptive recovery testing. Both CA ARCserve Replication and CA ARCserve High Availability include a true, unified management console across all operating systems, virtualization platforms and applications.

The CA ARCserve Family of Products' comprehensive set of features, along with its affordable, flexible, and simple licensing structure, make it a value leader in the market—delivering enterprise-class virtualized system, application and data protection. Available for a wide range of operating environments, all products are certified across an extensive range of industry platforms and applications providing compatibility and support for heterogeneous environments.

[1] AS OF FEBRUARY 2010.



The CA ARCserve Family of Products gives you control over your virtualized environment by delivering total protection, recovery and availability for your systems, applications and data. It is the only solution that offers a full range of products from Bare Metal Restore to fully automated failover for High Availability.

By using the CA ARCserve Family of Products' integrated easy-to-use tools and innovative technology, you get a complete strategy to manage backup and recovery, and keep your entire physical and virtualized environment highly available.



The CA ARCserve Family of Products

Key Features

“1-STEP” GRANULAR RESTORE FROM IMAGE BACKUP helps speed backup of VMs while reducing recovery time. It eliminates the need for a VMware staging server helping reduce costs.

INTEGRATED DATA DEDUPLICATION Improves the economics of disk-based backup solutions by enabling longer retention periods, providing a cost-effective means of reducing storage needs.

DASHBOARD WITH SRM REPORTING offers graphical insight into the backup environment to monitor the status of all backup activities, available resources and current utilization.

INFINITE INCREMENTAL BACKUPS reduces backup window, network traffic, disk storage, and application load.

BARE METAL RESTORE offers a very fast way to recover a crashed server to the same or dissimilar hardware significantly speeding server recovery

SINGLE SNAPSHOT BACKUP WITH FOUR RESTORE TYPES provides the ability to rapidly restore files, volumes, databases, or the entire system to any server in both physical and virtual environments from a single pass backup.

POINT-IN-TIME BACKUP VIEW provides a full point-in-time picture of the disk for rapid recovery of files, folders, volumes and databases.

FULL SYSTEM HIGH AVAILABILITY provides replication and failover of the entire system including the operating system, system state, application and data from any physical or virtual server to a Hyper-V server to ease and speed deployment, management and maintenance.

LAN/WAN DATA REPLICATION provides continuous and periodic onsite and offsite Windows, Linux and UNIX data protection and migration.

DATA REWIND provides true continuous data protection (CDP) with near-instantaneous recovery of lost / damaged data and databases.

AUTOMATED AND PUSH-BUTTON FAILOVER and end-user redirection for fast response to unplanned outages and to eliminate downtime during planned maintenance.

AUTOMATED, NON-DISRUPTIVE RECOVERY TESTING helps ensure the replica/failover system, application and data is available.



Supported Platforms

The CA ARCserve Family of Products supports a wide range of operating systems and virtualization platforms including:

- Microsoft Windows Server 2003, 2008 and 2008R2 in Standard or Enterprise Edition (32-bit or 64-bit)
- Microsoft Windows SBS 2000, 2003 and 2008 in Standard or Premium Edition
- UNIX AIX 5.2, 5.3 6.1, Solaris 9, 10 , SPARC, Intel
- Linux RedHat 4,5, SuSE 9, 10
- Rim Blackberry Server
- Microsoft Hyper-V, VMware Virtual Infrastructure and vSphere and Citrix XenServer

Benefits

The CA ARCserve Family of Products provides economical and comprehensive solutions to address your organization's challenges and initiatives. Together they provide a wide range of benefits and gives customers more control over their changing people, processes and technologies including:

- Providing a complete strategy and full range of products to manage your VMware, Microsoft Hyper-V and Citrix XenServer system, application and data protection
- Helping minimize system downtime that affects sales, service, customer satisfaction, and employee productivity
- Improving overall data protection and speeds application and data recovery
- Easing the deployment, management and maintenance of virtual servers and data
- Improving service levels while reducing IT costs
- Supporting any combination of virtual and physical environments

The CA ARCserve Family of Products Advantage

Through close collaboration with our strategic partners including Microsoft, VMware and Citrix Systems, CA is able to deliver tight integration of The CA ARCserve Family of Products across diverse virtualization platforms enabling the delivery of industry-leading system, application and data protection and high availability solutions for businesses of all sizes. The CA ARCserve Family of Products efficiently and cost-effectively helps you reduce the costs of protecting your virtual and physical servers. Certified across an extensive range of industry platforms and applications, it provides compatibility and support for heterogeneous environments.

You need the right tool for the right job, so the CA ARCserve Family of Products is designed to be used as an integrated set of tools or as separate products to meet your specific system, application and data protection requirements. Use them together for a complete strategy to manage backup, recovery and availability of your Exchange Server system, application and data environment. Mix and match them with each other technologies or integrate them into your existing data protection environment and strategy for complete and flexible control and interoperability.

Next Steps

Learn more about how the CA ARCserve Family of Products will help your organization meet its system, application and data protection needs. There are a wide range of in-depth product and feature briefs and demos, customer success stories, and technical whitepapers available at arcserve.com/products. Please contact your local reseller or visit arcserve.com/partnerlocator to locate an authorized partner in your area.

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