Leveraging the Cloud for Business Continuity and Disaster Recovery
There are many reasons why businesses today find high value in a cloud service, whether it’s a private cloud offered by a Managed Services Provider (MSP) or a public cloud such as Microsoft Windows Azure, Amazon Web Services (AWS) and Fujitsu Global Cloud Platform. Many businesses don't have a remote site to use for business continuity (BC) and disaster recovery (DR) planning to address incidents like power outage, fire, flood, hurricane, earthquake, tornado and even theft, so the cloud makes a great alternative. A data protection solution that offers cloud integration may also help make your IT organization more agile as cloud-based servers and storage resources can be added and removed as desired, to address the evolving needs of the business. But using the cloud also means you need to carefully assess the technology and integration used to make sure you can still meet demanding service level agreements (SLAs).
Customer Challenges

To meet today’s demanding SLAs and BC/DR strategies, IT organizations should consider a hybrid data protection approach—one that leverages both on-premise and offsite resources. Performing backup directly to the cloud may be challenging, especially if you have large volumes of data. You may not be able to complete a backup within your ever-shortening backup window. And how long will it take you to recover your data from the cloud, especially if you have a large Exchange or SQL database? And how long would it take to recover a complete server system, application and data across the WAN?

The Solution: CA ARCserve®

CA ARCserve provides many capabilities to help you address your recovery time objectives (RTO) and reduce risk of data loss to achieve better recovery point objectives (RPO), all while maximizing the value of a private or public cloud for offsite data protection and system availability. You get:

- image and file-based backup that delivers fast backup and restore while reducing storage requirements and costs
- Scheduled replication to copy backups offsite and to the cloud for disaster recovery and continuous replication to complement periodic backups for critical servers and applications
- Automated system failover for high availability and business continuity
- Bare metal recovery (BMR) that speeds system recovery by up to 80% over traditional methods.
- Support for both physical and virtual servers including VMware, Hyper-V and XenServer

CA ARCserve is tightly integrated with public cloud services such as Microsoft Windows Azure, Amazon Web Services, and Eucalyptus and it is used by MSPs around the world to deliver private cloud service offerings.

Backup and Recovery

CA ARCserve provides fast image-based disk-to-disk backup and recovery for Windows-based physical and virtual servers (VMware, Hyper-V and XenServer) as well as distributed workstations, providing fast RTO. Its block-level, Infinite Incremental (I² Technology™) helps speed backups to address backup window constraints and can significantly reduce storage costs and the volume of data transmitted across the network. It also enables more frequent backups (up to every 15-minutes) to help improve your RPO. You get an easy to use solution with centralized deployment, management and reporting to help improve IT productivity. CA ARCserve also provides hardware-independent bare metal recovery (BMR) to slash system recovery time over traditional methods. Once local backups are completed, critical data and information can be automatically copied to Amazon Web Services (AWS/S3) and Microsoft Windows Azure clouds for offsite data protection and archiving. Information is encrypted for security and you can define file versioning and retention policies to help control cloud storage costs and meet compliance requirements.
If you require backup to tape, or have a mixed operating system environment (Windows, Linux, UNIX, MAC), CA ARCserve provides file-based backup with comprehensive tape management and support. You also get a comprehensive backup dashboard, SRM reporting and infrastructure visualization to monitor the environment and help reduce unplanned outages. Once local backups are completed, they can be migrated to private and public clouds for offsite data protection and archiving. This technology is integrated with Amazon Web Services (AWS/S3) and Eucalyptus clouds. Since CA ARCserve file-based backup includes deduplication at no additional cost, to help reduce cloud storage costs it probably makes sense to dedupe your backups first and then replicate the deduplicated data to the cloud.

**Replication**

If you’re looking to migrate physical or virtual server backups from the data center or remote offices offsite or to the cloud, CA ARCserve provides scheduled replication that is used once backup completes. CA ARCserve’s replication can be used with deduplicated data to reduce the amount of data transmitted and stored in the cloud. If you’re looking to reduce risk of data loss and address demanding recovery point objectives (RPOs), you can use continuous data replication—whether to a local server or to the cloud. CA ARCserve’s replication technology is integrated with Amazon Web Services (AWS/EC2) public cloud for quick and easy offsite data protection if you don’t have your own remote site.

**High Availability**

Today, performing basic backup and recovery is just not good enough to meet demanding service level agreements (SLAs) and business continuity and disaster recovery strategies. Most IT organizations need to deliver near-continuous availability for their most critical systems and applications and must be able to address both simple outages and true disasters.

To help reduce business downtime caused by system and application outages, CA ARCserve provides comprehensive system, application and data high availability for physical and virtual servers running Windows, Linux and UNIX. It performs continuous replication, server & application monitoring, automatic and push-button failover, and hardware independent BMR failback after the production server is repaired or replaced. *Full System Protection* replicates an entire server environment to an offline virtual machine in the cloud so you typically don’t pay for server processing time until an actual failover. It includes integration with Amazon Web Services (AWS/EC2) for failover to the cloud.
Licensing

CA ARCserve offers flexible licensing options. For environments with a large number of servers, you can use Managed Capacity licensing that allows for an unlimited number of servers/VMs based on the volume of data being protected. For virtual servers, per-host licensing is offered that allows you to protect an unlimited number of Virtual Machines (VMs) on a single host server with one, low-cost license. You can also choose from per-socket licensing and per-VM licensing—whichever best meets your specific needs.

Software-as-a-Service (SaaS)

CA ARCserve is available as SaaS if you prefer a subscription-based, service offering. If you want a Disaster Recovery service, CA ARCserve offers CA ARCserve® D2D On Demand, where you perform image-based backups to local disk and then critical files and data are automatically copied or archived to bundled Microsoft Windows Azure public cloud storage for offsite data protection. If you want a Business Continuity service, CA ARCserve offers a system and data high availability service called CA Instant Recovery On Demand™ that provides real-time continuous replication, system and application monitoring, and automatic and push-button failover using CA’s cloud data center.

The CA ARCserve Advantage

- **Delivers true hybrid data protection**: That means fast onsite backup and restore along with integrated cloud support.
- **Helps you build effective business continuity and disaster recovery strategies**: You can use your own on-premise and remote facilities and resources, partner with a managed services provider (MSP) or leverage a public cloud. Besides offering onsite protection and recovery, it allows you to quickly and easily migrate files, applications and even entire systems offsite and to a public cloud for disaster recovery. You can even run your systems and applications from the cloud for business continuity.
- **Allows you to recover assets where, when and how you like**: That includes all your systems, applications and data. You can recover a single file, folder or email, an Exchange mailbox, a large server volume or an entire Exchange, SQL Server or SharePoint database.
- **Helps you virtualize with confidence and protect your investment**: VMware. Hyper-V. XenServer. You’re covered, whether you choose one or some combination of these for your server virtualization platform. By using server virtualization as part of your system and data protection strategy, you can speed recovery time and reduce costs.
- **Scales to meet your business’ future needs**: As your business grows and your IT environment and data protection strategies evolve, you can adopt new components to address new challenges.

Benefits

- Reduce cost, risk and complexity by having one solution with comprehensive protection and recovery capabilities for both physical and virtual servers.
- Enhance business continuity and disaster recovery by recovering systems, applications and data up to 80 percent faster than with traditional methods.
- Reduce storage requirements by up to 95 percent.
- Meet demanding compliance requirements.
- Save money by taking advantage of flexible, needs-based license management.
Summary

Whether you’re protecting a handful of servers or thousands of virtual machines across your enterprise, CA ARCserve offers you a wide range of cloud integrated technologies that provide a solid foundation for your business continuity and disaster recovery strategies to help reduce business downtime caused by system outages and data loss.

Next Steps

Learn more about CA ARCserve by visiting arcserve.com. Please contact your local reseller or visit arcserve.com/us/partners-info to locate an authorized partner in your area.

Try CA ARCserve now, visit arcserve.com/software-trials