

> CA arcserve r16.5 Hybrid data protection

Whether you're protecting the data center, remote offices or desktop resources, you need a solution that helps you meet today's demanding service-level agreements (SLAs) and disaster recovery (DR) strategies. You need faster backup and faster, more granular recovery for your systems, applications and data to meet your recovery time (RTO) and recovery point objectives (RPO). And you need better ways to copy data offsite and to the cloud for disaster recovery and archiving. For critical servers and applications, you should consider a solution that helps you keep business going after a system outage. And in today's modern IT environment, your solution needs to protect both physical and virtual server environments and offer integrated cloud support. Why compromise and purchase point solutions when you can have one solution that does it all?

The Solution: CA arcserve

Intellectual Property

What are you protecting?



Data
Systems
Applications

Physical or virtual

Backup Methods

How are you protecting?



File Backup
Disk Snapshot
Replication/HA

Deduplicated or not

Storage Locations

Where are you protecting it?



Cloud
Disk
Tape

On or off premise

Restore Methods

What can you restore?



Full systems or applications
Granular Application
Files/Folders

End user or admin

CA arcserve provides Hybrid Data Protection that is used as the foundation for building your data protection, business continuity and disaster recovery strategies. It provides comprehensive protection and recovery of physical and virtual systems, applications and data that live onsite, offsite or in the cloud. As a result, you can reduce business disruptions caused by system downtime and data loss and address demanding recovery time objectives (RTO) and recovery point objectives (RPO).

This chart demonstrates that different RTO and RPO objectives require different capabilities—and CA arcserve has them all.

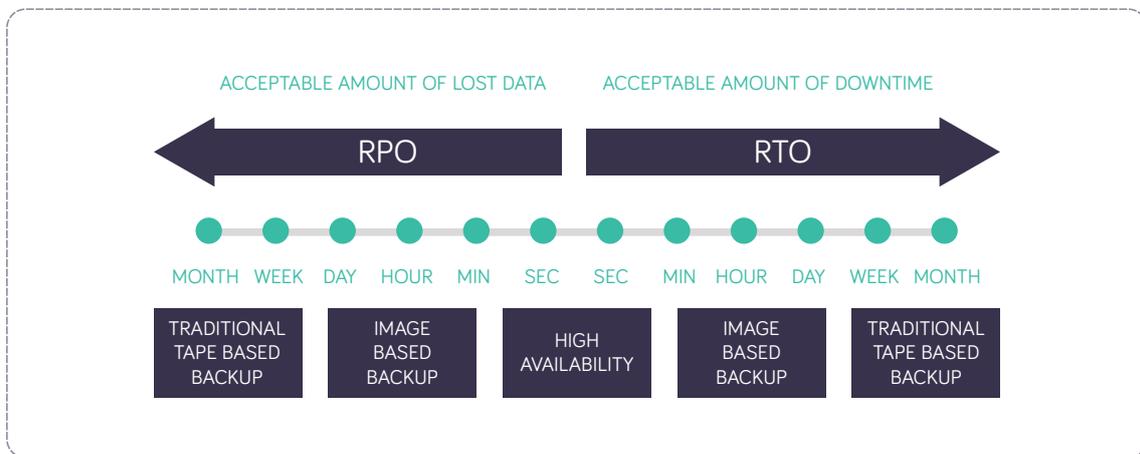
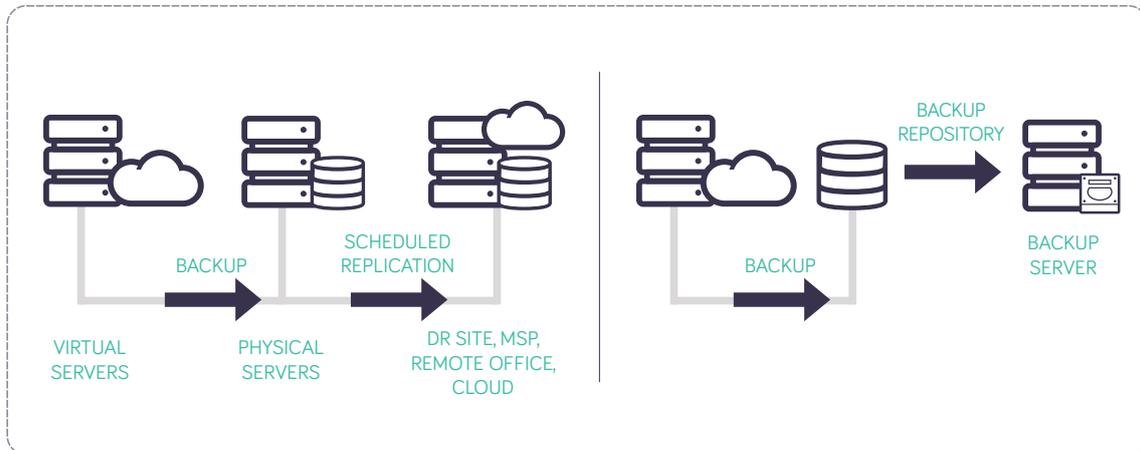
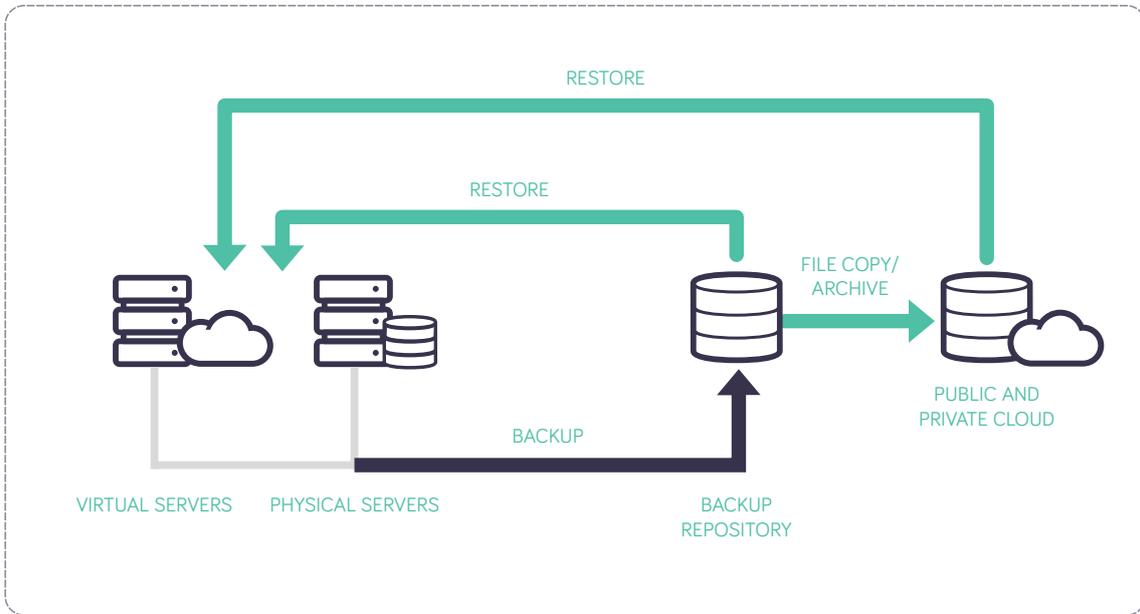


Image based backup

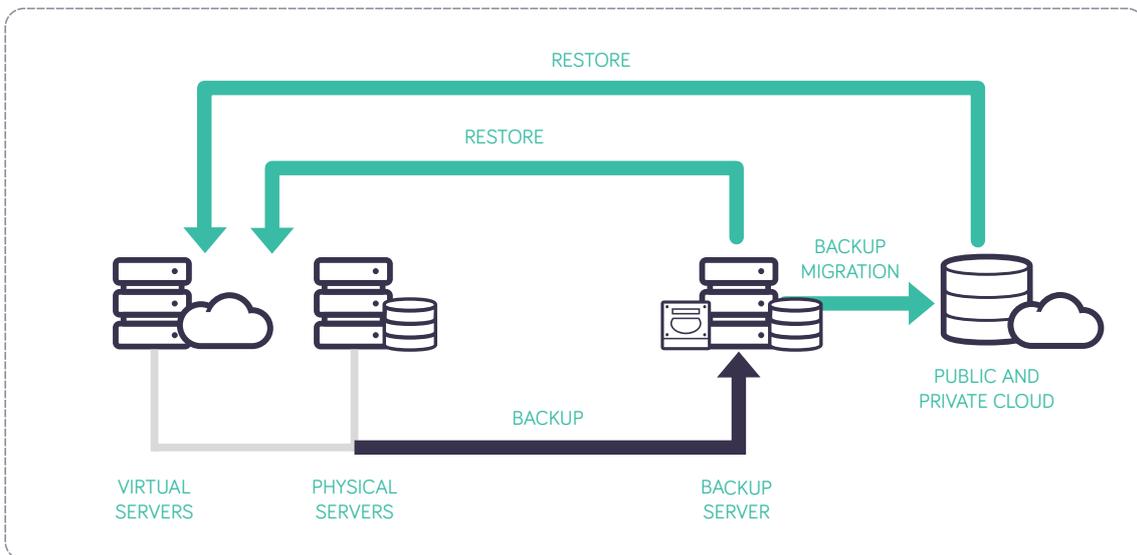
CA arcserve provides image-based backup to disk for Windows-based servers and workstations in both physical and virtual server environments. It includes CA's patent-pending block-level Infinite Incremental (I2) Technology™ that helps significantly reduce backup and restore times (RTO) and eliminates the inherent risks of tape devices and media. It also enables faster and more granular recovery points (RPO)—up to every 15 minutes—which also speeds data recovery. Once backups complete, you can automatically perform file/folder copy and archive to Amazon Web Services and Microsoft Windows Azure public clouds for offsite data protection. And CA arcserve also offers image-based backup with granular recovery, BMR and encryption for Linux servers too.



CA arcserve includes replication to migrate complete backups offsite and to the cloud for disaster recovery. And you can even migrate backups to tape for long term storage and compliance.

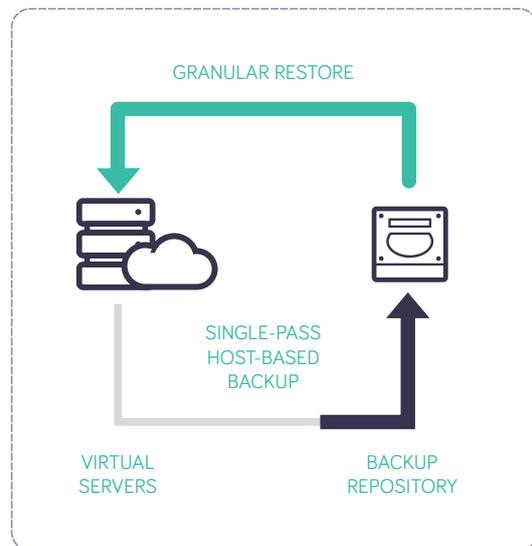
File-Based Backup

If you have a more complex environment such as one with mixed Windows, Linux and UNIX operating systems or where direct backup to tape is required, CA arcserve provides file-based backup with comprehensive tape management and support. It includes built-in data deduplication to help reduce storage requirements by up to 95 percent, providing immediate savings! You get a built-in backup dashboard with SRM reporting and infrastructure visualization to monitor the IT environment and help avoid unplanned outages. CA arcserve also includes integrated backup migration to Amazon Web Services public cloud and Eucalyptus-based private clouds for offsite data protection and disaster recovery.



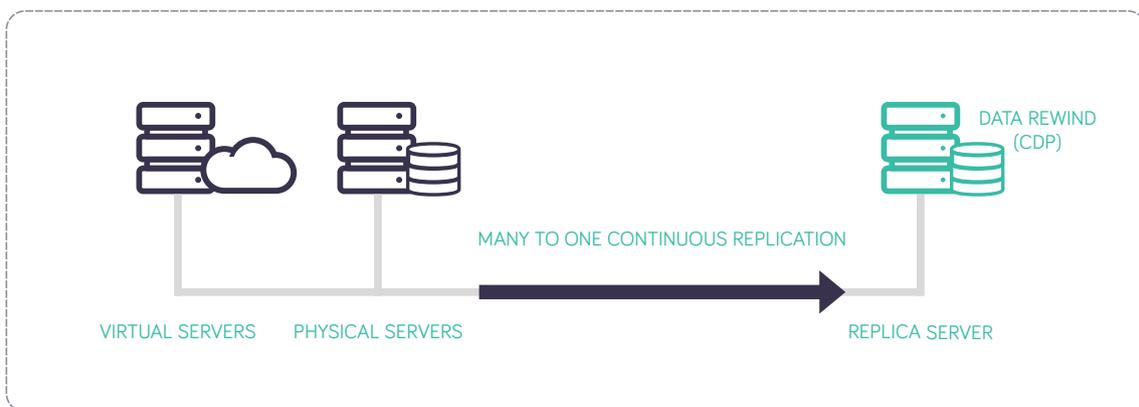
Virtual Server Data Protection

CA arcserve protects both physical and virtual server environments and includes unique virtualization data protection capabilities. For VMware, you get host-based backup using VMware Changed Block Tracking (CBT). This single pass, agent-less backup protects all the VMs on the host server and offers fast granular recovery. For Hyper-V, you can backup at the hypervisor level that includes all VMs with individual VM recovery. For more granular recovery, you perform VM-level backups. And you get support for Citrix XenServer VM-level backup and recovery. No matter which virtualization platform you use, our per-host, per-socket, and per-VM licensing can make it easier and less costly.



Continuous Data Replication

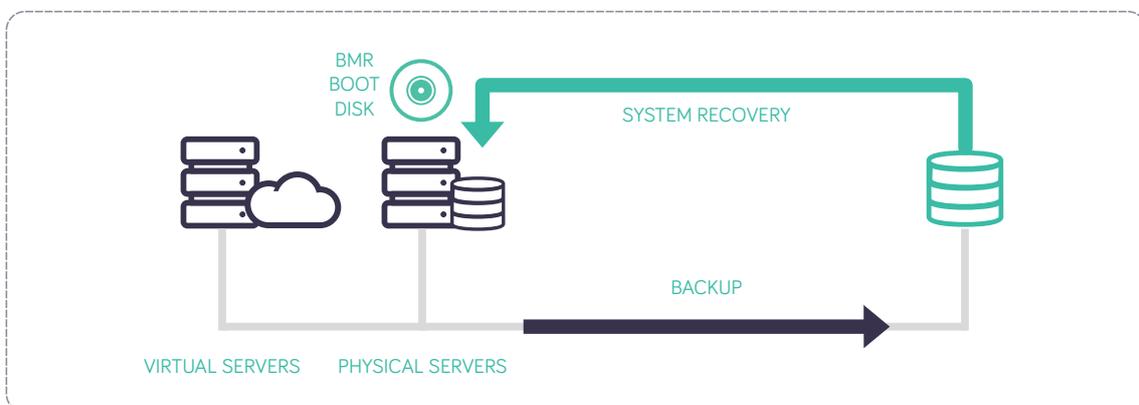
To achieve even better recovery point objectives (RPOs), CA arcserve provides comprehensive host-based real-time continuous replication for Windows, Linux and UNIX, to complement periodic backups. It includes Data Rewind for continuous data protection (CDP) that captures every change made to files and databases and enables you to quickly and easily rewind back to recover lost or damaged data—all without disrupting the production environment.



CA arcserve provides different capabilities for system recovery depending on your IT environment and recovery time (RTO) and recovery point (RPO) objectives.

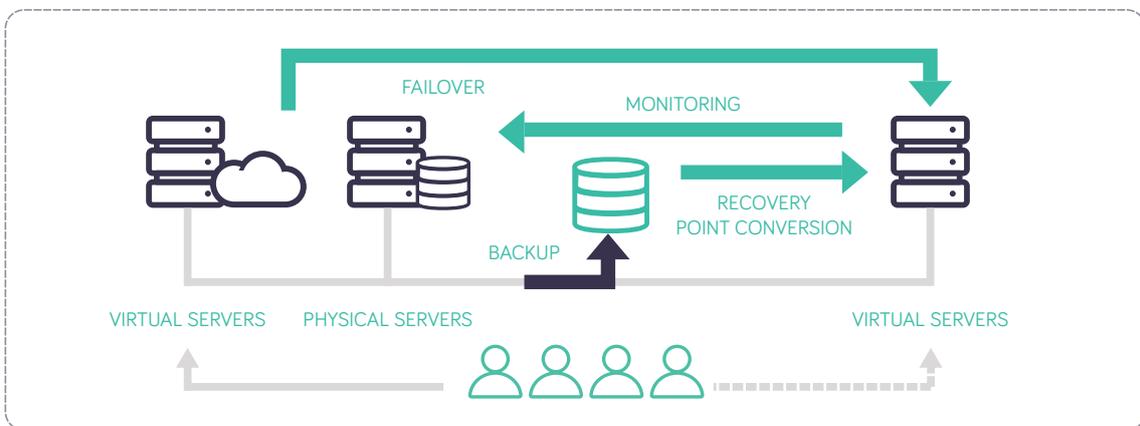
Bare Metal Recovery

CA arcserve provides hardware-independent Bare Metal Recovery (BMR) for Windows-based systems that helps you more quickly and easily rebuild damaged servers. It eliminates the time-consuming process of installing the operating system and application which can take too long and impacts both employee and IT productivity. You can use BMR to perform P2P, P2V, V2V and V2P system recovery based on your environment and goals. Basically you boot the new server from the boot disk and then run a complete system recovery.



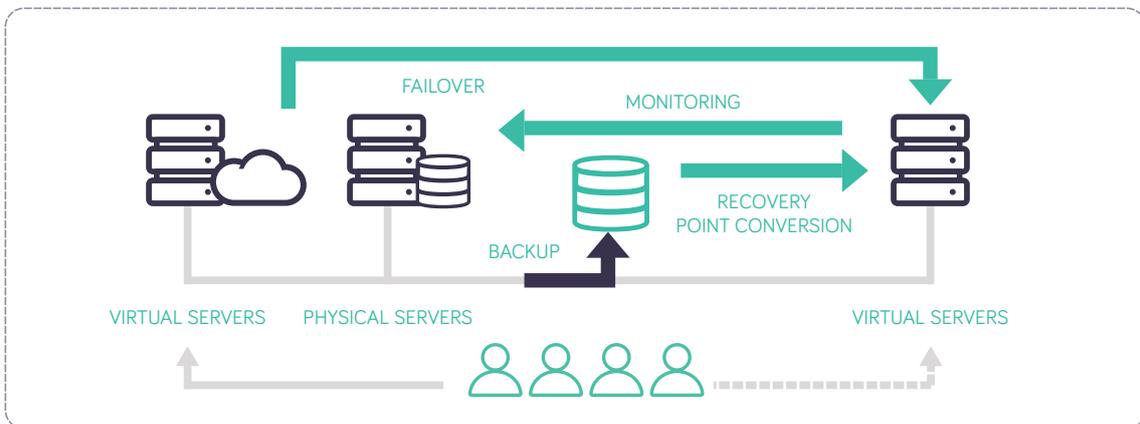
Virtual Standby

For even faster system recovery, CA arcserve includes Virtual Standby for near-instantaneous (P2V and V2V) recovery of entire Windows-based physical and virtual servers and data. This process converts periodic image-based recovery points to VMware Virtual Machine Disk (VMDK) or Microsoft Virtual Hard Disk (VHD) formats on a regularly scheduled basis. It automatically pre-registers and stores each recovery point (including incrementals) with the hypervisor for immediate use if disaster strikes. VMs can be powered on manually or automatically via server heartbeat monitoring. Virtual Standby can be used locally and remotely when also using CA arcserve's replication technology.



High Availability

For Windows, Linux and UNIX continuous system availability and data protection, CA arcserve provides high availability for physical and virtual servers. This solution performs continuous replication, system and application monitoring, automatic and push-button failover, push-button failback and automated, non-disruptive recovery testing. It is tightly integrated with Amazon Web Services (AWS) public cloud if you don't have your own remote BC/DR site. You get P2P, P2V, V2V and V2P failover and failback to support different environments. With full system protection and cascading failover, you can even deploy multiple failover servers for onsite, offsite and cloud failover.



Flexible Licensing

CA arcserve offers flexible licensing to address your needs. You can license individual components and modules (bundled components) on a per-server basis. Or use Managed Capacity licensing which is based on the volume of storage protected and may be deployed on an unlimited number of servers. For virtual servers, you can license per-host with unlimited number of virtual machines per host, per-VM and per-socket as well. And CA arcserve is available via both perpetual software licensing and Software-as-a-Service (SaaS) from many authorized MSPs with annual and monthly subscriptions.

The CA arcserve Advantage

- Delivers true hybrid data protection: That means fast onsite backup, restore and system recovery for improved business continuity along with replication and cloud support for offsite protection and disaster recovery.
- Helps you virtualize with confidence and protect your investment: VMware. Hyper-V. XenServer. You're covered, whether you choose one or any 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.
- Helps you build effective disaster recovery and business continuity strategies: With CA arcserve, you can use your own 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 the cloud for disaster recovery and business continuity.
- Lets you 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 or SharePoint database.
- Scales to meet your business's 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.
- 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.

For more information on CA arcserve, **please visit arcserve.com**

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