



Support for Windows Server 2008 Failover Clustering

Organizations need their data, mission-critical applications, and services available without any downtime. If for any reason the services are disrupted (planned or unplanned) the business continuity is interrupted, which may result not just in significant financial loss but also the credibility and trustworthiness. High Availability solutions provide features like continuous online replication, Failover, failback and Clustering to help organizations meet uptime requirements for their mission critical systems.

CA ARCserve® Replication and High Availability ensures your systems, applications, and data are always available. It ensures availability of your most critical applications including: Microsoft Exchange, SQL, SharePoint, IIS, and Dynamics CRM as well as Oracle and Blackberry Servers, providing additional layer of business continuity to your cluster environment with data replication support for cluster shared storage. CA ARCserve Replication and High Availability now supports non-shared disk clusters, extending native high availability inherent in cluster environments from LAN to WAN.

OVERVIEW

CA ARCserve Replication and High Availability provides data replication for Microsoft Cluster Services (MSCS) 2008 cluster shared storage. MSCS 2008 supports nodes in different physical locations with or without shared storage and manages its own failover. However, the shared disk that stores cluster data can be a single point of failure should it suffer damage or data loss. CA ARCserve Replication and High Availability continuously replicates the data so that the clustered application can survive even after complete loss of the shared storage hardware.

CA ARCserve Replication and High Availability for Microsoft Failover Cluster includes a virtual disk resource plug-in and a lightweight interface installed on every node in the cluster helping you manage your cluster environment with ease, allowing you to replicate data to a disk resource on or off-premises.

BENEFITS

- Eliminates the single point of failure by providing an additional layer of off-site protection to Microsoft Failover Cluster 2008 deployments running in a shared storage configuration.
- Acts as a replication provider for Microsoft to enable the new geographically dispersed clustering feature introduced with Windows Server 2008 failover clustering.
- Allows for the connection of cluster nodes through a local area network (LAN) or wide area network (WAN), spanning many miles, for a solution that provides automatic disaster recovery.

Install/Configure

Installation on clusters is similar to that of a standard installation. Before you install CA ARCserve replication and High Availability for Microsoft Failover Cluster, ensure your environment meets the minimum requirements for Microsoft Failover Cluster. Ensure that you install the following on all nodes in the cluster: CA ARCserve Replication Engine, Microsoft .NET Framework 3.5, and Windows Server 2008 Failover Cluster feature.

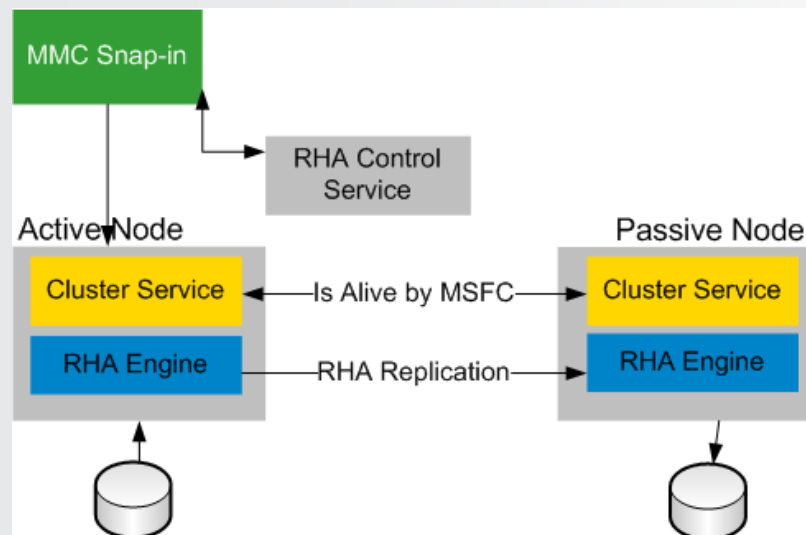
Run the MSFC plug-in CAARCserveRHAforMSFC.exe or CAARCserveRHAforMSFC64.exe (64-bit version) on each node to launch the Install Shield wizard. The wizard guides you through the process of installing the Disk Resource for Microsoft Failover Cluster and the Disk Cluster Manager MMC Snap-in. You can choose either the Complete Setup or Custom Setup depending on your site requirements. To configure CA ARCserve Replication and High Availability on a cluster, enter the Virtual Server Network Name (or IP Address) resource (in the group you intend to protect) as the Master or Replica name. Do not use node names or IP addresses when configuring the scenario.

After installation, you should restart the Replication Engine before you create a disk resource. During installation, the required processes are added to the Windows Firewall as exceptions. If you are using another firewall product or have manually configured one, you must remember to add the CA ARCserve RHA for Microsoft Failover Cluster processes as exceptions to ensure proper communication between MMC and the Replication Engine.

How CA ARCserve Replication and High Availability Cluster Support Works

CA ARCserve Replication and High Availability plug-in for Microsoft Failover Cluster (MSFC) 2008 lets you copy data between cluster nodes. To copy data between cluster nodes you need to create a new resource, a disk to store data replicated from the source node. You can manage (change properties or monitor replication status) the new disk resource using the MMC snap-in. The CA ARCserve RHA Control Service (installed on a separate server) is used to apply licenses.

You can launch the software from the Windows Start menu or you may also manually integrate the software with the Microsoft



Failover Cluster Manager. To manually integrate CA ARCserve Replication and High Availability for Microsoft Failover Cluster, launch MMC and choose the CA ARCserve RHA Console for MSFC and Failover Cluster Manager from the list of available snap-ins, and Add it to the Selected Snap-ins list. The Console Root tree updates to include the specified snap-ins. From here, you may manage your CA ARCserve Replication and High Availability disk resources

From the CA ARCserve RHA for Microsoft Failover Cluster Console, you can perform various actions to help you manage and monitor replication status. You can Open/Browse a Cluster, create new Disk Resource, add Disk Resource to Applications, Manage Licenses, and Browse Events.

Microsoft Failover Cluster manages failover within the cluster while CA ARCserve Replication and High Availability replicates the disk resource.

Summary

CA ARCserve High Availability is a powerful, easy-to-use product that provides integrated application-aware Replication and High Availability for different applications. CA ARCserve Replication and High Availability provides additional value on top of native cluster functionality for Microsoft Failover Cluster by allowing you to replicate data to a disk resource on or off-premises; extending native high availability inherent in cluster environments from LAN to WAN.

For more information about the CA ARCserve Family of products, please visit arcserve.com/products or test drive our products at arcserve.com/software-trials.