



Support for Amazon Cloud

CA ARCserve Replication and High Availability is a solution based on asynchronous real-time replication and automated application switchover and switchback to provide cost-effective business continuity for physical and virtualized environments on Windows servers. 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.

CA ARCserve Replication and High Availability lets you replicate data to a local or remote server, making it possible to recover that data due to server crash or site disaster. You may switch your users to the replica server manually, or automatically. The solution provides many different choices for this protection, anything from just files and shares through full system failover. An important part of Full System protection is the ability to make the replica within the AWS cloud (EC2). This means users can provide failover capabilities for key system without having to first have replica resources purchased and configured. Full System High Availability applies only to WINDOWS based host systems.

OVERVIEW

CA ARCserve Replication and High Availability provides data replication to protect an on-premises server by replicating it to an Amazon Web Services (AWS) cloud-based target. The Scenario Creation Wizard lets you create and configure a VPC and a VPN connection between your on-premises network and a cloud-based target. You can create a Full System EC2 High Availability scenario and replicate an entire on-premises Windows system into offline EBS-backed Windows AMIs that will be brought online should the master server fail.

This enhancement allows CA ARCserve Replication and High Availability to utilize the AWS EC2 environment as a remote replication target. Registration, installation, configuration and deployment have all been simplified to improve the user experience.

BENEFITS

- Leverages the cloud as a replication target, reducing many of the OPEX expenses associated with data protection.
- Provides and delivers methods to provide continued access to data / and applications during a system outage and/or during the repair, recovery or replacement of that failed system.
- Simplifies management of your replication/high availability to cloud by providing Cloud View panel to see and manage your AWS EC2 environment.
- Saves the time and effort of provisioning and deploying the server, OS and application in the Cloud.

Install/Configure:

Installing CA ARCserve Replication and High Availability and its components is straightforward and wizard driven. After the installation is complete, you need to create a Replication/High Availability scenario to replicate data to Amazon EC2. Ensure the following requirements are met before you create Full System Data Replication or High Availability scenario:

- Create Amazon Web Services (AWS) account.
- Create and connect the Amazon Virtual Private Cloud (VPC) with the on-premises network using VPN.
- Register the AWS account in the CA ARCserve RHA Manager.

Creating Full System High Availability EC2 scenario is the same as creating a non-cloud High Availability scenario, however the following exceptions apply:

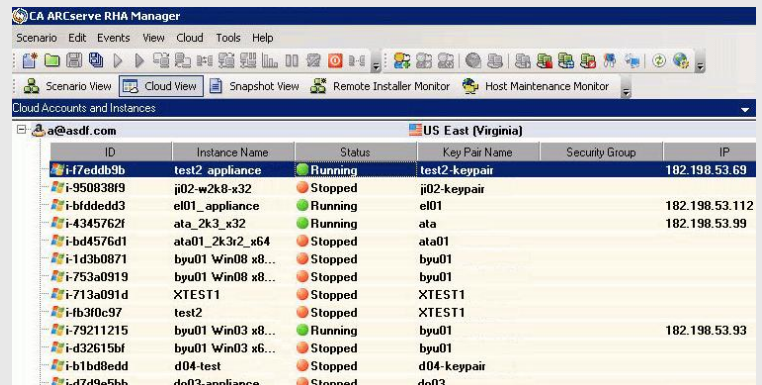
- In the Master/Replica Hosts Assignments pane, after you have assigned the master host, select the Amazon EC2 server type in the Replica Settings section. Select the EC2 replica instance (appliance).
- In the Master and Replica Properties screen, a new Cloud section is available. All of the properties are read-only except the Clean up Cloud Resources When Remove Scenario property that is disabled by default.
- All redirection methods are disabled by default, if traffic redirection is required, then you have to enable the Redirect DNS option.

How CA ARCserve Replication and High Availability Cloud Support works

CA ARCserve Replication and High Availability lets you create a Full System High Availability EC2 scenario using the Scenario Creation Wizard, this is similar to creating a non-cloud High Availability scenario. After you create a scenario, you need to run it to start the replication process. A previously created Full System EC2 High Availability or Data Replication scenario is executed as any other scenario., supporting Full System High Availability only for Microsoft Windows based host systems.

You manage and monitor your EC2 instances using the Cloud View panel, Cloud View panel supports multiple AWS accounts. You can see and manage EC2 instances in the Cloud View panel by adding a new cloud account using your AWS credentials. CA ARCserve Replication and High Availability lets you:

- Add a new Cloud Account
- Select a different AWS region while managing EC2 instances.
- Update Cloud account information.
- Delete a Cloud account.
- Create a new EC2 Replica Instance.
- Start, Stop (shut down but not remove) an EC2 instance.
- Delete a Replica EC2 Instance.



ID	Instance Name	Status	Key Pair Name	Security Group	IP
i-f7eddb9b	test2_appliance	Running	test2-keypair		
i-950838f9	ii02-w2k8-x32	Stopped	ii02-keypair		
i-bfdedd3	ei01_appliance	Running	ei01		182.198.53.112
i-4345762f	ata_2k3_x32	Running	ata		182.198.53.99
i-bd4576d1	ata01_2k3r2_x64	Stopped	ata01		
i-1d3b0871	byu01 Win08 x8...	Stopped	byu01		
i-753a0919	byu01 Win08 x8...	Stopped	byu01		
i-713a091d	XTEST1	Stopped	XTEST1		
i-fb3f0c97	test2	Stopped	XTEST1		
i-79211215	byu01 Win03 x8...	Running	byu01		182.198.53.93
i-d32615bf	byu01 Win03 x6...	Stopped	byu01		
i-b1bd8edd	d04-test	Stopped	d04-keypair		
i-d7d9e5bb	do03-appliance	Stopped	do03		

Create a New Full System EC2 High Availability Scenario

CA ARCserve Replication and High Availability lets you create a Full System EC2 High Availability scenario and replicate an entire on-premises Windows system into offline EBS-backed Windows AMIs that will be brought online should the master server fail. This procedure launches a Wizard that guides you through the steps required for High Availability scenario creation. However, properties can also be configured outside of the wizard.

Create a New Full System EC2 Replication Scenario

CA ARCserve Replication and High Availability lets you create an EC2 Data Replication scenario allowing EC2 instances specified in the Scenario Creation Wizard to be used as Replica servers. This procedure launches a Wizard that guides you through the steps required for Data Replication scenario creation. However, properties can also be configured outside of the wizard..

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 now supports Data Replication/High Availability to an Amazon Web Services (AWS) cloud-based target. The Full System Data Replication/High Availability to EC2 feature extends the list of supported virtual environments by adding support for Amazon EC2.

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.

Copyright © 2011CA. All rights reserved. Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both. UNIX is a registered trademark of The Open Group in the United States and other countries. Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both. All other trademarks, trade names, service marks and logos referenced herein belong to their respective companies.