

# Arcserve RHA PowerShell Commands Guide

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Arcserve RHA Administration Guide

PowerShell is based on the standard Windows PowerShell, while adding to it a number of scenario-related-commands, called snap-ins

Formating Command Output

Format-List

Format-Custom

Format-Table

Format-Wide

Connecting and Registration Commands

Connect-XO : connect PowerShell to a Control Service

eg:

```
connect-xo 192.168.1.151 qa880w3k3\administrator https
```

Connect PowerShell to a Control Service using a script

eg: (to encrypt your password and run it as an object)

```
read-host -assecurestring | convertfrom-securestring | out-file C:\securestring.txt <password>
```

```
$pass = cat C:\securestring.txt | convertto-securestring
```

```
$mycred = new-object -typename System.ManagementAutomation.PSCredential -argumentlist <domain\user_name>,$pass
```

```
Connect-XO [-Host] <String> $mycred [[-Protocol][<String>]][[-Port][<String>]]
```

Disconnect-XO : disconnect from a running control service

eg:

```
disconnect-xo
```

Note: Closing the PowerShell window also causes PowerShell to disconnect from the Control Service.

Get-License : display your Arcserve RHA License

eg:

```
get-license
```

Set-License : Register Arcserve RHA

xo-import-credential : reads all credential records in the given XML file and adds thm to the connected Control Service, via the command Add-Credential.

xo-convertto-securefile : converts a plain text CVS file to a secured XML file.

xo-credential : convert a string to a PSCredential Object

eg:

```
xo-credential johnsmith mypwd2
```

Add-Credential : add credentials to a host

eg:

```
$c = xo-credential "administrator" "Password";
```

```
Add-Credential $c "9.182.102.229" 25000
```

Set-HostUserCredential : set the user credentials property for a host

eg:

```
$c = xo-credential "administrator" "Password";
```

```
Set-HostUserCredential -name "scenarioe01" e-eehoeste e9e.182.102.229 -credential $c
```

Set-ScenarioUserCredential : set the user credentials property of a scenario

eg:

```
$c = xo-credential "administrator" "Password";
```

```
Set-ScenarioUserCredential -name "scenario 1" -credential $c
```

Controlling Commands

Diff-Scenario : generate a difference report

eg:

```
diff-scenario "File Server 1" F 1
```

Export-Scenario : export a scenario to a specified location

eg:

```
export-scenario "File Server 1" C:\Scenarios\Scenario_exp_file_1
```

Expose-Snapshot : expose a snapshot

eg:

```
Expose-Snapshot 192.168.1.153 0 E: 25000
```

Import-Scenario : Import a scenario to the Manager

eg:

```
import-scenario c:\scenarios
```

Mount-Snapshot : mount a snapshot

eg:

```
mount-snapshot 192.168.1.153 0 F:
```

Prepare-Reboot: prepare a host for maintenance

Recover-Scenario : recover lost data from the Replica to the Master

eg:

```
Recover-Scenario "File Server 1" 192.168.1.153 F 1 0 A 2
```

Resume-IsAliveCheck : resume isalive checking of a running scenario

eg:

```
Resume-IsAliveCheck SQLscenario
```

Resume-Scenario : resume replication on a suspended replica

eg:

```
resume-scenario "File Server 1" 192.168.1.153
```

Run-Scenario : start a scenario

eg:

```
run-scenario "File Server 1" F 1
```

Run-Assessment : run a scenario in assessment mode

This command enables you to assess the accurate bandwidth usage and compression ratio benchmarking that is needed for replication, without actually replicating data.

eg:

```
run-assessment "File Server 1"
```

Set-Bookmark : set a rewind bookmark

A bookmark is like a snapshot. This command enables you to set a bookmark for a given scenario.

eg:

```
set-bookmark "File Server 1" Backup1
```

Stop-Scenario : stop a scenario

eg:

stop-scenario "File Server 1"

Suspend-IsAliveCheck : suspend IsAlive Checking of a Running Scenario

eg:

suspend-isalivecheck SQLscenario

Suspend-Scenario : suspend updates on a Replica

This command enables you to temporarily cease delivering changes to a suspended Replica. During the suspension, changes are eaccumulated in a spool until replication is resumed so that re-synchronization is not required.

eg:

suspend-scenario "File Server 1" 192.168.1.153

Switchover-Scenario : perform a switchover

This command enables you to start the switchover process for a given HA scenario.

eg:

Switchover-Scenario "SQL Server 1" 1

Sync-Scenario : Initiate a Synchronization

This command enables you to synchronize the Master and the Replica of a given scenario. The synchronization process can be manually activated at any time, whether replication is running or not.

eg:

sync-scenario "File Server 1" F 1

Test-Integrity : perform integrity test for assured recovery

eg:

Test-Integrity "Exchange Server 1" 192.168.1.153

Unmount-Snapshot : unmount a snapshot

This command enables you to release an exposed snapshot without losing the snapshot itself. The snapshot is still exposed but it does not use a mount point.

#### Editing Commands

Add-Appliance : specify an appliance for a full system scenario

eg:

Add-Appliance -Name FULL -Parent 9.181.130.110 -Host 9.181.130.64 -Type H

Add-Dir : add root directories to the master and replica hosts

eg:

add-dir "File Server 1" C:/Tools

Add-Group : create a scenario group

eg:

add-group "File Server Scenarios"

Add-Master : add a master host to a scenario

eg:

add-master "File Server 1" 130.119.185.152

Add-Replica : add a replica host ot a scenario

eg:

add-replica "File Server 1" 130.119.185.153 -parent 130.119.185.152

Add Replicas : add multiple replica hosts to a scenario

This command enables you to add multiple replica hosts at once to a given scenario. To add multiple replica hosts, you need to create a text file that contains the hostnames and IP addresses of th hosts. When you use the command, first define the scenario name and the parent host of all the Replica hosts you want to add. Then, specify the nam and path of the file that contains the details of the new hosts.

eg:

add-replicas "Exchange Server" QA95-W2K3-EX1 D:\New\_Replica\_Hosts.txt

Add-Scenario : create a new scenario

When creating a new scenario, you need to define the following:

The scenario name

The scenario group to which this scenario will be assigned (optional)

The type of application or database server to be protected

The type of data protection solution

Whether to enable the Integrity Testing option for Assured Recovery.

eg:

add-scenario "File Server 1" "File Server Scenarios" FS DR 0

Create-D2DScenario : create the D2D Scenario

eg:

Create-D1DScenario -ServerURL http://test01:8014 -Credentials testserv/testpass -ReplicaHostName test01 -ScenarioName testD2D

Create-HBBUScenario : create the Arcserve Central Applications Integration Scenario

eg:

Create-HBBUScenario -ServerURL http://test01:8015 -ScenarioName testHBBU -MasterHostName test02 -ReplicaHostName test\_replica

Get-D2DBackupDestination : get the d2d backup destination

eg:

Get-D2DBackupDestination -ServerURL http://test01:8014 Credentials admin/testpass

Get-HBBUVM : get VMs from the Arcserve Central Applications Server

eg:

Get-HBBUVM <http://test01:8015>

Remove-Dir : remove root directories from the master and replica

eg:

remove-dir "File Server 1" C:/Tools

Remove-Group : delete a scenario group

eg:

remove-group "new group 1"

Note: You can only remove an empty scenario group. If you want to remove a group that contains scenarios, first you need to remove the scenarios.

Remove-Replica : remove a replica host from a scenario

eg:

remove-replica "FS 1" 130.119.185.153 -parent 130.119.185.152

Remove-Scenario : delete a scenario

eg:

remove-scenario "File Server 2"

Rename-Group : rename a scenario group

eg:

rename-group Server "Exchange Server Scenarios"

Rename-Scenario : change a sceario name

eg:

rename-scenario "File Server 1" "File Server"

Commands for changing scenarios whine running

Apply-AllPendingRuntimeChangeableScenarioProperties : apply all changes to all changed scenarios at run time

eg:

Suppose you changed properties on several scenarios. Those changes are all pending. To apply them immediately use this command.

Apply-PendingRuntimeChangeableScenarioProperties: apply all changes to the specified running scenario.

eg: the following command applies changes to the scenario called FileServer

Apply-PendingRuntimeChangeableScenarioProperties FileServer

Discard-AllPendingRuntimeChangeableScenarioProperties : cancels all the changes you configured for all scenarios.

Discard-RuntimeChangeableScenarioProperties

eg: If you have made numerous changes to a running scenario called FileServer and discover problems, use the following command to set the scenario back to all original values

Discard-RuntimeChangeableScenarioProperties FileServer

Get-AllPendingRuntimeChangeableScenarioProperties : list all the scenarios that were changed while running

eg: list all the scenarios changed while running

Get-AllPendingRuntimeChangeableScenarioProperties

Get-AllRuntimeChangeableScenarioProperties : list all the properties that can be changed while any scenario is running.

eg: list all editable properties and redirect the output to a text file.

Get-AllRuntimeChangeableScenarioProperties > d:\l.txt

Get-RuntimeChangeableScenarioProperties : find all the properties you can edit while the specified scenario is running.

eg: list all the editable properties for the scenario called File Server Scenario 1

Get-RuntimeChangeableScenarioProperties FileServerScenario1

Get-PendingRuntimeChangeableScenarioProperties : list all the changes made to the specified running scenario.

eg: shows the list of all properties changed for the scenario called FileServer

Set-RuntimeChangeableScenarioProperty : update the value of the specified property in the named scenario while it is running.

eg: update the argument of the suspend script property based on its name

Set-RuntimeChangeableScenarioProperty FileServer SpecificReplicaProps.Suspend.SuspendScript 456 -Host 10.0.0.1

Test-RuntimeChangeableScenarioProperty : confirm whether the specified property can still be edited while the scenario is running.

eg:

Test-RuntimeChangeableScenarioProperty FileServer 113 -host 10.0.0.3

Monitoring commands

Get-Dirs : list all root directories of a scenario

eg:

get-dirs "File Server 1"

Get-Events : list all events of a scenario

eg:

get-events "File Server 1" | FT -auto

Get-Group : list groups that carry a given name

eg:

get-group "Server"

Get-Host : list all hosts of a scenario

eg:

get-hosts "File Server 1" | FT -auto

Get-NetworkAdapters : get network adapters of the specified host

eg:

Get-NetworkAdapters FULL 9.181.130.64

Get-Scenario : list scenarios that carry a given name

eg:

get-scenario File\* | FT -auto

Get-Snapshot : display VSS Snapshots of a Replica Host

eg:

Get-Snapshot 130.119.173.7 | FT -auto

Get-State : list all scenarios defined for a given host

eg:

get-state 130.119.185.152

Get-Stats : display replication statistics of a scenario

eg:

get-stats "File Server 1"

User Management Commands

Clean-VMResource : clean VM Resource on a Virtual Platform

eg:

Clean-VMResource FULL 9.181.130.64

Edit-NetworkMapping : map network adapters to the master and replica

eg:

Edit-NetworkMapping -Name FULL -Host 9.181.130.61 -SourceAdapter "Microsoft Network Adapter Multiplexor Driver" -TargetAdapter "Arcserve RHA internal for AR" -Type AR -IP 9.181.130.140:255.255.0.0

Get-SuperUserGroup : display the super user group name

eg:

Get-SuperUserGroup

Set-SuperUserGroup : change the super user group

eg:

Set-SuperUserGroup Administrators

Get-Users : list all users of the super user group

eg:

get-users

Get-ScenarioUsers : list all users with rights on a scenario

eg:

Get-ScenarioUsers "File Server"

Set-ScenarioUser : assign user rights on a scenario

eg:

Set-ScenarioUser "File Server" QA95-W2K3-SQL\User2 C

Remove-ScenarioUser : cancel user rights on a scenario

eg:

Remove-ScenarioUser "File Server" QA95-W2K3-SQL\User2 C

