# ActiveDirectory

## PowerShell Command Line Examples

#### Simplest format example

C:\TEMP\Collector-ActiveDirectory.ps1 "C:\TEMP\"

#### Extensive format example

C:\TEMP\Collector-ActiveDirectory.ps1 -XmlFilePath "C:\TEMP\" -FilterType "User" -DomainName “test.local”

-SpecificDomainControllerToQuery "Domain1" -IntegratedSecurity –ProgressDisplay

## PowerShell Command Line Parameters Described

|  |  |  |
| --- | --- | --- |
| **Parameter Name** |  |  |
|  | .\Collector-ActiveDirectory.ps1 | Script name in current folder. |
| -XmlFilePath | C:\TEMP\ | Fully Qualified Path to storage location of XML file to be created. The application will automatically generate the file name depending on the FilterType specified.  If the FilterType is “Computer” then “adcomputers\_MM\_DD\_YYYY HH.MM.SS.xml”. If the FilterType is “User” then “adusers\_MM\_DD\_YYYY HH.MM.SS.xml”. |
| -FilterType | Computer | This parameter specifies the type of filter to be applied when selecting information from Active Directory. The two valid values are "Computer" (Device related information) and "User" (User related information). If no value is specified, the script will default to "Computer". |
| -DomainName | Domain.local | This parameter specifies the name of the domain to access. The machine running this script must be trusted on the specified domain and the current user account or supplied credentials must have permission to access the information on the specified domain. |
| -NumberOfDomainControllersToQuery | 1 | Specifies how many Domain Controllers to query in the current or specified Domain. If no value is specified for this parameter, the script will default to querying only one Domain Controller. To query all Domain Controllers in the Domain, set this parameter to 0. |
| -SpecificDomainControllerToQuery | TestSvr1.company. local OR TestSvr | If a value is supplied, only Domain Controllers that begin with a matching value will be selected. The more specific the value the finer the result set. If a value is supplied for this parameter, any value provided for the NumberOfDomainControllersToQuery parameter will be ignored (its value will be set to its default of 0). |
| -IntegratedSecurity | -IntegratedSecurity | If specified, the connection to the database is made using Windows Integrated Authentication. If this value is not specified, the user may include a PSCredential object containing a valid SQL Server login using the Credential parameter. If neither of these parameters are specified, the user will be prompt to supply a valid SQL login at execution time. |
| -Credential | System.Management.Automation.PSCredential Object | This parameter accepts a PSCredential object that should contain a valid SQL Server login. |
| -ProgressDisplay | -ProgressDisplay | If specified, the command window includes a progress activity indicator. |
| -SuppressLogFile | -SuppressLogFile | Log files are created by default, if this switch is included the creation of a Log file will be suppressed. |
| -LogFilePath | C:\TEMP\ | Fully Qualified Path to storage location of Log file to be created. If no path is specified, the file will be created in the same folder as the XML file. The application will automatically generate the file name. The file name will be generated by the PowerShell script and either be “adcomputers\_MM\_DD\_YYYY HH.MM.SS.log” or “adusers\_MM\_DD\_YYYY HH.MM.SS.log”. |
| -xDTCall |  | This value is reserved for internal processing and should be omitted unless instructed otherwise. |
| -DataSource |  | This value is reserved for internal processing and should be omitted unless instructed otherwise. |
| -AppVersion |  | This value is reserved for internal processing and should be omitted unless instructed otherwise. |
|  | Get-Help .\Collector-ActiveDirectory.ps1 | For additional command line help use the PowerShell Get-Help cmdlet. |

## Script Requirements

The only required parameter is a fully qualified path to the folder location of the file to be created. All other parameters are optional. If this required parameter is not provided on the command line when the script is run the user will be prompted to provide it. If all parameters are entered and in the order displayed in the “PowerShell Command Line Parameters Described“ section above then the “Parameter Name” labels may be omitted. If parameters are omitted or submitted in an order other than that displayed above, then the “Parameter Name” must accompany the supplied value (ex. –XmlFilePath “C:\TEMP\” or –ProgressDisplay). The individual running the script or the UserName & Password supplied during execution of the script must have sufficient permission for the script to successfully collect the required information from the Database.

Also, it may be necessary to enable PowerShell script execution. If you receive a warning when executing the script indicating, you do not have permission to run the script on the machine, you can try changing the script execution policy. To change the execution policy, from the PowerShell command prompt type the following command then press Enter

Set-ExecutionPolicy Unrestricted -Scope CurrentUser

## Description

When the script is run a connection will be made to the current or specified Domain’s Directory services. The account used to access the Directory Service, either using the users Domain Integrated or supplied security credentials, must have adequate permission to succeed. If neither the “IntegratedSecurity” nor the “Credential” parameters are provided at run time, the script will prompt the proper Credentials when run. Also, there are different filtering conditions applied when collecting “Computer” or “User” data and a single individual may not have permission to access both types of information. Once the credentials have been accepted the script will begin collecting the data and creating the XML export file. If the “ProgressDisplay” parameter was specified the current progress of activity will be displayed at the top of the PowerShell Command window as the data is collected and written. If the “ProgressDisplay” parameter is not supplied, then no information will be displayed until the script has completed. Regardless of the “ProgressDisplay” setting, when the script completes it will display an execution completion status consisting of three values.

CollectionSuccess: True is successful else False

FileName: The fully qualified name of the file created. If the CollectionSuccess is False, this value will be omitted.

Error: Display of error discovered during execution. If the CollectionSuccess is False, this should contain a description of the issues encountered that did not permit the script to complete successfully.

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