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Windows PowerShell Get-Help on Cmdlet 'ConvertTo-Csv'

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NAME

ConvertTo-Csv

SYNOPSIS

Converts .NET objects into a series of character-separated value (CSV) strings.

SYNTAX

ConvertTo-Csv [-InputObject] <System.Management.Automation.PSObject> [[-Delimiter] <System.Char>] [-NoTypeInformation] [<CommonParameters>]

ConvertTo-Csv [-InputObject] <System.Management.Automation.PSObject> [-NoTypeInformation] [-UseCulture] [<CommonParameters>]

DESCRIPTION

The `ConvertTo-CSV` cmdlet returns a series of character-separated value (CSV) strings that represent the objects that you submit. You can then use the

`ConvertFrom-Csv` cmdlet to recreate objects from the CSV strings. The objects converted from CSV are string values of the original objects that contain property

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values and no methods.

You can use the `Export-Csv` cmdlet to convert objects to CSV strings. `Export-CSV` is similar to `ConvertTo-CSV`, except that it saves the CSV strings to a file.

The `ConvertTo-CSV` cmdlet has parameters to specify a delimiter other than a comma or use the current culture as the delimiter.

PARAMETERS

-Delimiter <System.Char>

Specifies the delimiter to separate the property values in CSV strings. The default is a comma (`,`). Enter a character, such as a colon (`:`). To specify a

semicolon (';') enclose it in single quotation marks.

Required? false

Position? 1

Default value comma (,)

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <System.Management.Automation.PSObject>

Specifies the objects that are converted to CSV strings. Enter a variable that contains the objects or type a command or expression that gets the objects. You can

also pipe objects to `ConvertTo-CSV`.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

Removes the #TYPE information header from the output. This parameter became the default in PowerShell 6.0 and is included for backwards compatibility.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-UseCulture <System.Management.Automation.SwitchParameter>

Uses the list separator for the current culture as the item delimiter. To find the list separator for a culture, use the following command:

`(Get-Culture).TextInfo.ListSeparator`.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.Management.Automation.PSObject

You can pipe any object that has an Extended Type System (ETS) adapter to this cmdlet.

OUTPUTS

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This cmdlet returns one or more strings representing each converted object.

NOTES

In CSV format, each object is represented by a character-separated list of its property value. The property values are converted to strings using the object's

ToString() method. The strings are represented by the property value name. `ConvertTo-CSV` does not export the object's methods.

The CSV strings are output as follows:

- By default the first string contains the #TYPE information header followed by the object type's fully qualified name. For example, #TYPE

System.Diagnostics.Process . - If NoTypeInformation is used the first string includes the column headers. The headers contain the first object's property names

as a comma-separated list. - The remaining strings contain comma-separated lists of each object's property values.

When you submit multiple objects to `ConvertTo-CSV`, `ConvertTo-CSV` orders the strings based on the properties of the first object that you submit. If the

remaining objects do not have one of the specified properties, the property value of that object is Null, as represented by two consecutive commas. If the

remaining objects have additional properties, those property values are ignored.

----- Example 1: Convert an object to CSV ------

Get-Process -Name 'PowerShell' | ConvertTo-Csv -NoTypeInformation

"Name", "SI", "Handles", "VM", "WS", "PM", "NPM", "Path", "Company", "CPU", "FileVersion", ...

"powershell", "11", "691", "2204036739072", "175943680", "132665344", "33312", ...

The `Get-Process` cmdlet gets the Process object and uses the Name parameter to specify the PowerShell process object and uses the Name parameter to specify the PowerShell process.

process object is sent down the pipeline to the

`ConvertTo-CSV` cmdlet. The `ConvertTo-CSV` cmdlet converts the object to CSV strings. The NoTypeInformation parameter removes the #TYPE information header from the

CSV output.

----- Example 2: Convert a DateTime object to CSV ------

\$Date = Get-Date

ConvertTo-Csv -InputObject \$Date -Delimiter ';' -NoTypeInformation

"DisplayHint";"DateTime";"Day";"DayOfWeek";"DayOfYear";"Hour";"Kind";"Millisecond";"Minute";"Month";"Second";"Ticks";"TimeOfDay";"Year"

"DateTime";"Friday, January 4, 2019 14:40:51";"1/4/2019 00:00:00";"4";"Friday";"4";"14";"Local";"711";"40";"1";"51";"636822096517114991";"14:40:51.7114991";"2019"

The `Get-Date` cmdlet gets the DateTime object and saves it in the `\$Date` variable. The `ConvertTo-Csv` cmdlet converts the DateTime object to strings. The

InputObject parameter uses the DateTime object stored in the `\$Date` variable. The Delimiter parameter specifies a semicolon to separate the string values. The

NoTypeInformation parameter removes the #TYPE information header from the CSV output.

----- Example 3: Convert the PowerShell event log to CSV -----

(Get-Culture). TextInfo. ListSeparator

Get-WinEvent -LogName 'Windows PowerShell' | ConvertTo-Csv -UseCulture -NoTypeInformation

"Message","Id","Version","Qualifiers","Level","Task","Opcode","Keywords","RecordId", ...

"Error Message = System error","403",,"0","4","4",,"36028797018963968","46891","PowerShell", ...

The `Get-Culture` cmdlet uses the nested properties TextInfo and ListSeparator and displays the current culture's default list separator. The `Get-WinEvent` cmdlet

gets the event log objects and uses the LogName parameter to specify the log file name. The event log objects are sent down the pipeline to the `ConvertTo-Csv`

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cmdlet. The `ConvertTo-Csv` cmdlet converts the event log objects to a series of CSV strings. The UseCulture parameter uses the current culture's default list

separator as the delimiter. The NoTypeInformation parameter removes the #TYPE information header from the CSV output.

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.utility/convertto-csv?view=powershell-5.1&WT.mc_id=ps-gethelp

ConvertFrom-Csv

Export-Csv

Import-Csv