Windows PowerShell Get-Help on Cmdlet 'Get-Variable'

PS:\>Get-HELP Get-Variable -Full

NAME

   Get-Variable

SYNOPSIS

   Gets the variables in the current console.

SYNTAX

      Get-Variable [[-Name] <System.String[]>] [-Exclude <System.String[]>] [-Include <System.String[]>] [-Scope
<System.String>] [-ValueOnly] [<CommonParameters>]

DESCRIPTION

   The `Get-Variable` cmdlet gets the PowerShell variables in the current console. You can retrieve just the values of the

variables by specifying the ValueOnly

   parameter, and you can filter the variables returned by name.

PARAMETERS

   -Exclude <System.String[]>

Specifies an array of items that this cmdlet excludes from the operation. Wildcards are permitted.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? true

-Include <System.String[]>

Specifies an array of items upon which the cmdlet will act, excluding all others. Wildcards are permitted.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? true

-Name <System.String[]>

Specifies the name of the variable. Wildcards are permitted. You can also pipe a variable name to `Get-Variable`.

Required?   false

Position?   0

Default value   None

Accept pipeline input?   True (ByPropertyName, ByValue)

Accept wildcard characters? true

-Scope <System.String>

Specifies the variables in the scope.The acceptable values for this parameter are:

- Global - Local - Script - A number relative to the current scope (0 through the number of scopes, where 0 is the current scope and 1 is its parent) Local is the

default. For more information, see about_Scopes (../Microsoft.PowerShell.Core/About/about_Scopes.md).

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-ValueOnly <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet gets only the value of the variable.

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.String

You can pipe a string that contains the variable name to this cmdlet.

OUTPUTS

System.Management.Automation.PSVariable

By default, this cmdlet returns a AutomationPSVariable object for each variable that it gets. The object type depends

on the variable.

System.Object[]

When you specify the ValueOnly parameter and the specified variable's value is a collection, this cmdlet returns a

`[System.Object[]]`. This behavior prevents

normal pipeline operation from processing the variable's values one at a time. A workaround to force collection enumeration is to enclose the `Get-Variable`

command in parentheses.

NOTES

Windows PowerShell includes the following aliases for `Get-Variable`:

- `gv`

- This cmdlet does not manage environment variables. To manage environment variables, you can use the environment variable provider.

-------------- Example 1: Get variables by letter --------------

Get-Variable m*

----------- Example 2: Get variable values by letter -----------

Get-Variable m* -ValueOnly

----------- Example 3: Get variables by two letters -----------

Get-Variable -Include M*,P*

-------------- Example 4: Get variables by scope --------------

Get-Variable -Scope 0

Compare-Object (Get-Variable -Scope 0) (Get-Variable -Scope 1)

RELATED LINKS

Clear-Variable

New-Variable

Remove-Variable

Set-Variable