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

PS:\>Get-HELP Set-Variable	e -Ful	I
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NAME

Set-Variable

#### **SYNOPSIS**

Sets the value of a variable. Creates the variable if one with the requested name does not exist.

### **SYNTAX**

Set-Variable [-Name] <System.String[]> [[-Value] <System.Object>] [-Description <System.String>] [-Exclude <System.String[]>] [-Force] [-Include <System.String[]>]

[-Option {None | ReadOnly | Constant | Private | AllScope | Unspecified}] [-PassThru] [-Scope <System.String>] [-Visibility {Public | Private}] [-Confirm] [-WhatIf]

[<CommonParameters>]

### **DESCRIPTION**

The `Set-Variable` cmdlet assigns a value to a specified variable or changes the current value. If the variable does not exist, the cmdlet creates it.

### **PARAMETERS**

-Description <System.String>

Specifies the description of the variable.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

# -Exclude <System.String[]>

Specifies an array of items that this cmdlet excludes from the operation. The value of this parameter qualifies the Path parameter. Enter a path element or

pattern, such as `\*.txt`. Wildcards are permitted.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? true

# -Force <System.Management.Automation.SwitchParameter>

Allows you to create a variable with the same name as an existing read-only variable, or to change the value of a read-only variable.

By default, you can overwrite a variable, unless the variable has an option value of `ReadOnly` or `Constant`. For more information, see the Option parameter.

Required? false

Position? named

Default value False

Accept pipeline input? False

-Include <System.String[]>

Specifies an array of items that this cmdlet includes in the operation. The value of this parameter qualifies the Name parameter. Enter a name or name pattern,

such as `c\*`. Wildcards are permitted.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? true

-Name <System.String[]>

Specifies the variable name.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Option <System.Management.Automation.ScopedItemOptions>

Specifies the value of the Options property of the variable.

Valid values are:

- `None`: Sets no options. (`None` is the default.)
- `ReadOnly`: Can be deleted. Cannot be changed, except by using the Force parameter.
- `Constant`: Cannot be deleted or changed. `Constant` is valid only when you are creating a

in the current scope.

- `AllScope`: The variable is copied to any new scopes that are created.

These values are defined as a flag-based enumeration. You can combine multiple values together to set multiple flags using this parameter. The values can be

passed to the Option parameter as an array of values or as a comma-separated string of those values. The cmdlet will combine the values using a binary-OR

operation. Passing values as an array is the simplest option and also allows you to use tab-completion on the values.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PassThru <System.Management.Automation.SwitchParameter>

Returns an object representing the new variable. By default, this cmdlet does not generate any output.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Scope <System.String>

Specifies the scope of the variable. The acceptable values for this parameter are:

- `Global`

- `Local` Page 4/10

- `Script`
- `Private`
- 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 Local
Accept pipeline input? False
Accept wildcard characters? false
-Value <system.object></system.object>
Specifies the value of the variable.
Required? false
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName, ByValue)
Accept wildcard characters? false
-Visibility <system.management.automation.sessionstateentryvisibility></system.management.automation.sessionstateentryvisibility>
Determines whether the variable is visible outside of the session in which it was created. This parameter is designed
for use in scripts and commands that will be

delivered to other users.

Valid values are:

- `Public`: The variable is visible. (`Public` is the default.)

- `Private`: The variable is not visible.

When a variable is private, it does not appear in lists of variables, such as those returned by `Get-Variable`, or in displays of the Variable: drive. Commands to

read or change the value of a private variable return an error. However, the user can run commands that use a private variable if the commands were written in the

session in which the variable was defined.

Required? false

Position? named

Default value Public

Accept pipeline input? False

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false Page 6/10

Position?	named				
Default value	False				
Accept pipelin	e input? False				
Accept wildcar	rd characters? false				
<commonparam< td=""><td>eters&gt;</td></commonparam<>	eters>				
This cmdlet su	This cmdlet supports the common parameters: Verbose, Debug,				
ErrorAction, E	rrorVariable, WarningAction, WarningVariable,				
OutBuffer, Pip	elineVariable, and OutVariable. For more information, see				
about_Commo	onParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).				
INPUTS					
System.Object					
You can pipe a	an object representing the value of the variable to this cmdlet.				
OUTPUTS					
None					
By default, this	s cmdlet returns no output.				
System.Manager	ment.Automation.PSVariable				
When you u	se the PassThru parameter, this cmdlet returns a PSVariable object representing the new or change				
variable.					
NOTES					
Windows Pow	erShell includes the following aliases for `Set-Variable`:				
- `set`					

- `sv`

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	Example 1: Set a variable and get its value
Set-Var	iable -Name "desc" -Value "A description"
Get-Vai	iable -Name "desc"
Name	Value
desc	A description
	Example 2: Set a global, read-only variable
Set-V	ariable -Name "processes" -Value (Get-Process) -Option constant -Scope global -Description "All processes"
-PassThru	
Form	at-List -Property *
The co	mmand uses the `Set-Variable` cmdlet to create the variable. It uses the PassThru parameter to create an object
representi	ng the new variable, and it uses the
	operator (` `) to pass the object to the `Format-List` cmdlet. It uses the Property parameter of `Format-List` with a I (`*`) to display all
	es of the newly created variable.
The va	lue, `(Get-Process)`, is enclosed in parentheses to ensure that it is executed before being stored in the variable.
Otherwise	, the variable contains the words
`Get-Pr	ocess`.
Ex	ample 3: Understand public vs. private variables
New-Va	riable -Name "counter" -Visibility Public -Value 26
\$Count	er

Name	Value
	<del></del>
Culture	en-US
ConsoleFilel	Name
ConfirmPref	erence High
CommandLi	neParameters {}
Counter	26
Set-Variable	e -Name "counter" -Visibility Private
Get-Variable	e c*
Name	Value
Culture	en-US
ConsoleFilel	
ConfirmPref	
CommandLi	neParameters {}
\$counter	
φοσιπει	
"Cannot acc	ress the variable '\$counter' because it is a private variable"
.\use-counte	pr.ps1
#Commands	s completed successfully.
This comm	and shows how to change the visibility of a variable to Private. This variable can be read and changed by
scripts with the	e required permissions, but it is
not visible to	o the user.

**RELATED LINKS** 

Get-Variable c\*

Online Page Psich:

https://learn.microsoft.com/powershell/module/microsoft.pov	wershell.utility/set-variable?view=powershell-5.1&WT.mc_id=ps-
gethelp	
Clear-Variable	
Get-Variable	
New-Variable	
Remove-Variable	