



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

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

NAME

Get-PSCallStack

SYNOPSIS

Displays the current call stack.

SYNTAX

Get-PSCallStack [<CommonParameters>]

DESCRIPTION

The ``Get-PSCallStack`` cmdlet displays the current call stack.

Although it is designed to be used with the Windows PowerShell debugger, you can use this cmdlet to display the call stack in a script or function outside of the debugger.

To run a ``Get-PSCallStack`` command while in the debugger, type ``k`` or ``Get-PSCallStack``.

PARAMETERS

<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

None

You can't pipe objects to this cmdlet.

OUTPUTS

System.Management.Automation.CallStackFrame

This cmdlet returns an object representing the items in the call stack.

NOTES

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

- ``gcs``

----- Example 1: Get the call stack for a function -----

```
PS C:\> function my-alias {  
$p = $args[0]  
Get-Alias | where {$_.definition -like "$p"} | format-table definition, name -auto  
}
```

```
PS C:\ps-test> Set-PSBreakpoint -Command my-alias
```

```
Command : my-alias
```

Action :
Enabled : True
HitCount : 0
Id : 0
Script : prompt PS C:\> my-alias Get-Content

Entering debug mode. Use h or ? for help.

Hit Command breakpoint on 'prompt:my-alias'

my-alias get-content

[DBG]: PS C:\ps-test> s

\$p = \$args[0]

DEBUG: Stepped to ' : \$p = \$args[0] ' ' '

[DBG]: PS C:\ps-test> s

get-alias | Where {\$_.Definition -like "\$p*"} | format-table Definition,

[DBG]: PS C:\ps-test>get-pscallstack

Name	CommandLineParameters	UnboundArguments	Location
prompt	{}	{}	prompt
my-alias	{}	{get-content}	prompt
prompt	{}	{}	prompt

PS C:\> [DBG]: PS C:\ps-test> o

Definition Name

----- ----

Get-Content gc

Get-Content cat

Get-Content type

This command uses the `Get-PSCallStack` cmdlet to display the call stack for `My-Alias`, a simple function that gets the aliases for a cmdlet name.

``Set-PSBreakpoint`` cmdlet to set a breakpoint on the ``My-Alias``

function. The third command uses the ``My-Alias`` function to get all of the aliases in the current session for the ``Get-Content`` cmdlet.

The debugger breaks in at the function call. Two consecutive ``step-into`` (``s``) commands begin executing the function line by line. Then, a ``Get-PSCallStack`` command is used to retrieve the call stack.

The final command is a ``Step-Out`` command (``o``) that exits the debugger and continues executing the script to completion.

RELATED LINKS

Online

Version:

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

Disable-PSBreakpoint

Enable-PSBreakpoint

Format-Table

Get-PSBreakpoint

Remove-PSBreakpoint

Set-PSBreakpoint