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

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

NAME

   Get-PSBreakpoint

SYNOPSIS

   Gets the breakpoints that are set in the current session.

SYNTAX

   Get-PSBreakpoint -Command <System.String[]> [-Script <System.String[]>] [<CommonParameters>]

   Get-PSBreakpoint [-Id] <System.Int32[]> [<CommonParameters>]

   Get-PSBreakpoint [-Script <System.String[]>] [<CommonParameters>]

   Get-PSBreakpoint [-Script <System.String[]>] -Variable <System.String[]> [<CommonParameters>]

   Get-PSBreakpoint [-Type] {Line | Variable | Command} [-Script <System.String[]>] [<CommonParameters>]

DESCRIPTION

The `Get-PSBreakPoint` cmdlet gets the breakpoints that are set in the current session. You can use the cmdlet parameters to get particular breakpoints.

A breakpoint is a point in a command or script where execution stops temporarily so that you can examine the instructions. `Get-PSBreakpoint` is one of several

cmdlets designed for debugging PowerShell scripts and commands. For more information about the PowerShell debugger, see about_Debuggers

(../microsoft.powershell.core/about/about_debuggers.md).

PARAMETERS

-Command <System.String[]>

Specifies an array of command breakpoints that are set on the specified command names. Enter the command names, such as the name of a cmdlet or function.

Required?   true

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-Id <System.Int32[]>

Specifies the breakpoint IDs that this cmdlet gets. Enter the IDs in a comma-separated list. You can also pipe breakpoint IDs to `Get-PSBreakpoint`.

Required?   true

Position?   0

Default value   None

Accept pipeline input?   True (ByValue)

Accept wildcard characters? false

-Script <System.String[]>

Specifies an array of scripts that contain the breakpoints. Enter the path (optional) and names of one or more script

files. If you omit the path, the default

location is the current directory.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   True (ByValue)

Accept wildcard characters? false

-Type <Microsoft.PowerShell.Commands.BreakpointType[]>

Specifies an array of breakpoint types that this cmdlet gets. Enter one or more types. The acceptable values for this

parameter are:

- Line

- Command

- Variable

You can also pipe breakpoint types to `Get-PSBreakPoint`.

Required?   true

Position?   0

Default value   None

Accept pipeline input?   True (ByValue)

Accept wildcard characters? false

-Variable <System.String[]>

Specifies an array of variable breakpoints that are set on the specified variable names. Enter the variable names

without dollar signs.

Required?   true

Position?   named

Default value   None

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.Int32

You can pipe breakpoint IDs to this cmdlet.

Microsoft.PowerShell.Commands.BreakpointType

You can pipe breakpoint types to this cmdlet.

OUTPUTS

System.Management.Automation.CommandBreakpoint

System.Management.Automation.LineBreakpoint

System.Management.Automation.VariableBreakpoint

System.Management.Automation.Breakpoint

This cmdlet returns objects that represent the breakpoints in the session.

NOTES

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

- `gbp`

- Example 1: Get all breakpoints for all scripts and functions -

Get-PSBreakpoint

--------------- Example 2: Get breakpoints by ID ---------------

Get-PSBreakpoint -Id 2

Function   :
IncrementAction :
Enabled   :
TrueHitCount   : 0
Id   : 2
Script   : C:\ps-test\sample.ps1
ScriptName   : C:\ps-test\sample.ps1

--------- Example 3: Pipe an ID to `Get-PSBreakpoint` ---------

$B = `Set-PSBreakpoint` -Script "sample.ps1" -Command "Increment"
$B.Id | Get-PSBreakpoint

The `Set-PSBreakpoint` cmdlet creates a breakpoint on the Increment function in the `Sample.ps1` script and saves the breakpoint object in the `$B` variable. The Id

property of the breakpoint object in the `$B` variable is piped to the `Get-PSBreakpoint` cmdlet to display the breakpoint information.

----- Example 4: Get breakpoints in specified script files -----

Get-PSBreakpoint -Script "Sample.ps1, SupportScript.ps1"

This command does not get other breakpoints that might be set in other scripts or on functions in the session.

------- Example 5: Get breakpoints in specified cmdlets -------

Get-PSBreakpoint -Command "Read-Host, Write-Host" -Script "Sample.ps1"

---- Example 6: Get Command breakpoints in a specified file ----

Get-PSBreakpoint -Type Command -Script "Sample.ps1"

This command gets all Command breakpoints in the Sample.ps1 file.

------------ Example 7: Get breakpoints by variable ------------

Get-PSBreakpoint -Variable "Index, Swap"

-- Example 8: Get all Line and Variable breakpoints in a file --

Get-PSBreakpoint -Type Line, Variable -Script "Sample.ps1"

RELATED LINKS

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

Disable-PSBreakpoint

Enable-PSBreakpoint

Get-PSCallStack

Remove-PSBreakpoint

Set-PSBreakpoint