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## Windows PowerShell Get-Help on Cmdlet 'Enter-PSHostProcess'

PS:\>Get-HELP Enter-PSHostProcess -Full

NAME

Enter-PSHostProcess

#### SYNOPSIS

Connects to and enters into an interactive session with a local process.

## SYNTAX

Enter-PSHostProcess [-HostProcessInfo] <Microsoft.PowerShell.Commands.PSHostProcessInfo> [[-AppDomainName] <System.String>] [<CommonParameters>]

Enter-PSHostProcess [-Id] <System.Int32> [[-AppDomainName] <System.String>] [<CommonParameters>]

Enter-PSHostProcess [-Name] <System.String> [[-AppDomainName] <System.String>] [<CommonParameters>]

Enter-PSHostProcess [-Process] <System.Diagnostics.Process> [[-AppDomainName] <System.String>] [<CommonParameters>]

The `Enter-PSHostProcess` cmdlet connects to and enters into an interactive session with a local process.

Instead of creating a new process to host PowerShell and run a remote session, the remote, interactive session is run in an existing process that is already running

PowerShell. When you are interacting with a remote session on a specified process, you can enumerate running runspaces, and then select a runspace to debug by running

either `Debug-Runspace` or `Enable-RunspaceDebug`.

The process that you want to enter must be hosting PowerShell (System.Management.Automation.dll). You must be either a member of the Administrators group on the

computer on which the process is found, or you must be the user who is running the script that started the process.

After you have selected a runspace to debug, a remote debug session is opened for the runspace if it is either currently running a command or is stopped in the

debugger. You can then debug the runspace script in the same way you would debug other remote session scripts.

Detach from a debugging session, and then the interactive session with the process, by running exit twice, or stop script execution by running the existing debugger

quit command.

If you specify a process by using the Name parameter, and there is only one process found with the specified name, the process is entered. If more than one process

with the specified name is found, PowerShell returns an error, and lists all processes found with the specified name.

To support attaching to processes on remote computers, the `Enter-PSHostProcess` cmdlet is enabled in a specified remote computer, so that you can attach to a local process within a remote PowerShell session.

#### PARAMETERS

-AppDomainName <System.String>

Specifies an application domain name to connect to if omitted, uses DefaultAppDomain . Use `Get-PSHostProcessInfo` to display the application domain names. Page 2/6

Required?falsePosition?1Default valueDefaultAppDomainAccept pipeline input?FalseAccept wildcard characters?false

#### -HostProcessInfo <Microsoft.PowerShell.Commands.PSHostProcessInfo>

Specifies a PSHostProcessInfo object that can be connected to with PowerShell. Use `Get-PSHostProcessInfo` to get the object.

Required?truePosition?0Default valueNoneAccept pipeline input?True (ByValue)Accept wildcard characters?false

#### -Id <System.Int32>

Specifies a process by the process ID. To get a process ID, run the `Get-Process` cmdlet.

Required? true

Position? 0

Default value None

Accept pipeline input? False

Accept wildcard characters? false

## -Name <System.String>

Specifies a process by the process name. To get a process name, run the `Get-Process` cmdlet. You can also get process names from the Properties dialog box of a

process in Task Manager.

Required?	true

0

Position?

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -Process <System.Diagnostics.Process>

Specifies a process by the process object. The simplest way to use this parameter is to save the results of a `Get-Process` command that returns process that you

want to enter in a variable, and then specify the variable as the value of this parameter.

Required?truePosition?0Default valueNoneAccept pipeline input?True (ByValue)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.Diagnostics.Process

#### OUTPUTS

## NOTES

`Enter-PSHostProcess` cannot enter the process of the PowerShell session in which you are running the command.

PowerShell session, or a PowerShell ISE session that is running at the same time as the session in which you are running `Enter-PSHostProcess`.

`Enter-PSHostProcess` can enter only those processes that are hosting PowerShell. That is, they have loaded the PowerShell engine.

To exit a process from within the process, type exit , and then press <kbd>Enter</kbd>.

Example Part 1: Start debugging a runspace within the PowerShell ISE process

PS C:\> Enter-PSHostProcess -Name powershell\_ise

[Process:1520]: PS C:\> Get-Runspace

ld	Name I	InstanceId	State Av	ailability	
1	Runspace1	2d91211d-9cce-42f0-ab0e	-71ac258b32b5	Opened	Available
2	Runspace2	a3855043-cb16-424a-a610	6-685360c3763k	o Opened	RemoteDebug
3	MyLocalRS	2236dbd8-2105-4dec-a15	a-a27d0bfaacb5	Opened	LocalDebug
4	MyRunspace	e 771356e9-8c44-4b70-9de	e5-dd17cb41e48	Be Opened	Busy
5	Runspace8	3e517382-a97a-49ba-9c3	c-fd21f6664288	Broken	None

----- Example part 2: Debug a specific runspace ------

#### [Process:1520]: PS C:\> (Get-Runspace -Id 4).ScriptStackTrace

Command	Arguments	Location
MyModuleWorkflo	owF1 {}	TestNoFile3.psm1: line 6
WFTest1	{}	TestNoFile2.ps1: line 14
TestNoFile2.ps1	{}	TestNoFile2.ps1: line 22
<scriptblock></scriptblock>	{}	<no file=""></no>

[Process: 1520]: PS C:\> Debug-Runspace -Id 4

Hit Line breakpoint on 'C:\TestWFVar1.ps1:83'

At C:\TestWFVar1.ps1:83 char:1

+ \$scriptVar = "Script Variable"

[Process: 1520]: [RSDBG: 4]: PS C:\>

Start an interactive debugging session with this runspace by running the `Debug-Runspace` cmdlet.

---- Example part 3: Finish the debugging session and exit ----

[Process:346]: [RSDBG: 3]: PS C:\> exit [Process:1520]: PS C:\> [Process:1520]: PS C:\> Exit-PSHostProcess PS C:\>

#### **RELATED LINKS**

Online Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.core/enter-pshostprocess?view=powershell-5.1&WT.mc

#### \_id=ps-gethelp

Exit-PSHostProcess

Get-PSHostProcessInfo