



Windows PowerShell Get-Help on Cmdlet 'Debug-Process'

PS:\>Get-HELP Debug-Process -Full

NAME

Debug-Process

SYNOPSIS

Debugs one or more processes running on the local computer.

SYNTAX

Debug-Process [-Id] <System.Int32[]> [-Confirm] [-WhatIf] [<CommonParameters>]

Debug-Process -InputObject <System.Diagnostics.Process[]> [-Confirm] [-WhatIf] [<CommonParameters>]

Debug-Process [-Name] <System.String[]> [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The `Debug-Process` cmdlet attaches a debugger to one or more running processes on a local computer. You can specify the processes by their process name or process ID

(PID), or you can pipe process objects to this cmdlet.

This cmdlet attaches the debugger that is currently registered for the process. Before using this cmdlet, verify that a debugger is downloaded and correctly configured.

PARAMETERS

-Id <System.Int32[]>

Specifies the process IDs of the processes to be debugged. The Id parameter name is optional.

To find the process ID of a process, type ``Get-Process``.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-InputObject <System.Diagnostics.Process[]>

Specifies the process objects that represent processes to be debugged. Enter a variable that contains the process objects or a command that gets the process objects, such as the ``Get-Process`` cmdlet. You can also pipe process objects to this cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Name <System.String[]>

Specifies the names of the processes to be debugged. If there is more than one process with the same name, this cmdlet attaches a debugger to all processes with that name. The Name parameter is optional.

Required? true
Position? 0
Default value None
Accept pipeline input? True (ByPropertyName)
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
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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.Int32

You can pipe a process ID to this cmdlet.

System.Diagnostics.Process

You can pipe a process object to this cmdlet.

System.String

You can pipe a process name to this cmdlet.

OUTPUTS

None

This cmdlet returns no output.

NOTES

This cmdlet uses the AttachDebugger method of the Windows Management Instrumentation (WMI) Win32_Process class. For more information about this method, see

AttachDebugger method (<https://go.microsoft.com/fwlink/?LinkId=143640>) in the MSDN library.

-- Example 1: Attach a debugger to a process on the computer --

```
PS C:\> Debug-Process -Name "Windows Powershell"
```

This command attaches a debugger to the PowerShell process on the computer.

Example 2: Attach a debugger to all processes that begin with the specified string

```
PS C:\> Debug-Process -Name "SQL*"
```

This command attaches a debugger to all processes that have names that begin with SQL.

----- Example 3: Attach a debugger to multiple processes -----

```
PS C:\> Debug-Process "Winlogon", "Explorer", "Outlook"
```

This command attaches a debugger to the Winlogon, Explorer, and Outlook processes.

----- Example 4: Attach a debugger to multiple process IDs -----

```
PS C:\> Debug-Process -Id 1132, 2028
```

This command attaches a debugger to the processes that have process IDs 1132 and 2028.

Example 5: Use Get-Process to get a process then attach a debugger to it

```
PS C:\> Get-Process "Windows PowerShell" | Debug-Process
```

This command attaches a debugger to the PowerShell processes on the computer. It uses the `Get-Process` cmdlet to get the PowerShell processes on the computer, and it

uses a pipeline operator (`|`) to send the processes to the `Debug-Process` cmdlet.

To specify a particular PowerShell process, use the ID parameter of `Get-Process`.

Example 6: Attach a debugger to a current process on the local computer

```
PS C:\> $PID | Debug-Process
```

This command attaches a debugger to the current PowerShell processes on the computer.

The command uses the `$PID` automatic variable, which contains the process ID of the current PowerShell process. Then, it uses a pipeline operator (`|`) to send the process ID to the `Debug-Process` cmdlet.

For more information about the `$PID` automatic variable, see [about_Automatic_Variables](#) (`./Microsoft.PowerShell.Core/About/about_Automatic_Variables.md`).

Example 7: Attach a debugger to the specified process on multiple computers

```
PS C:\> Get-Process -ComputerName "Server01", "Server02" -Name "MyApp" | Debug-Process
```

This command attaches a debugger to the MyApp processes on the Server01 and Server02 computers.

The command uses the ``Get-Process`` cmdlet to get the MyApp processes on the Server01 and Server02 computers. It uses a pipeline operator to send the processes to the ``Debug-Process`` cmdlet, which attaches the debuggers.

Example 8: Attach a debugger to a process that uses the InputObject parameter

```
PS C:\> $P = Get-Process "Windows PowerShell"
PS C:\> Debug-Process -InputObject $P
```

This command attaches a debugger to the PowerShell processes on the local computer.

The first command uses the ``Get-Process`` cmdlet to get the PowerShell processes on the computer. It saves the resulting process object in the variable named ``$P``.

The second command uses the InputObject parameter of the ``Debug-Process`` cmdlet to submit the process object in the ``$P`` variable.

RELATED LINKS

Online

Version:

[https://learn.microsoft.com/powershell/module/microsoft.powershell.management/debug-process?view=powershell-5.1&WT.](https://learn.microsoft.com/powershell/module/microsoft.powershell.management/debug-process?view=powershell-5.1&WT.mc_id=ps-gethelp)

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[Get-Process](#)

[Start-Process](#)

[Stop-Process](#)

[Wait-Process](#)