Windows PowerShell Get-Help on Cmdlet 'Restart-Service'

PS:\>Get-HELP Restart-Service -Full

NAME

   Restart-Service

SYNOPSIS

   Stops and then starts one or more services.

SYNTAX

    Restart-Service -DisplayName <System.String[]> [-Exclude <System.String[]>] [-Force] [-Include <System.String[]>]
[-PassThru] [-Confirm] [-WhatIf] [<CommonParameters>]

    Restart-Service [-InputObject] <System.ServiceProcess.ServiceController[]> [-Exclude <System.String[]>] [-Force]
[-Include <System.String[]>] [-PassThru] [-Confirm]

   [-WhatIf] [<CommonParameters>]

   Restart-Service [-Name] <System.String[]> [-Exclude <System.String[]>] [-Force] [-Include <System.String[]>] [-PassThru]
[-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The `Restart-Service` cmdlet sends a stop message and then a start message to the Windows Service Controller for a specified service. If a service was already

stopped, it is started without notifying you of an error. You can specify the services by their service names or display names, or you can use the InputObject

parameter to pass an object that represents each service that you want to restart.

PARAMETERS

  -DisplayName <System.String[]>

    Specifies the display names of services to restarted. Wildcard characters are permitted.

    Required?   true

    Position?   named

    Default value   None

    Accept pipeline input?   False

    Accept wildcard characters? true

  -Exclude <System.String[]>

      Specifies services that this cmdlet omits. The value of this parameter qualifies the Name parameter. Enter a name element or pattern, such as s*. Wildcard

    characters are permitted.

    Required?   false

    Position?   named

    Default value   None

    Accept pipeline input?   False

    Accept wildcard characters? true

  -Force <System.Management.Automation.SwitchParameter>

    Forces the command to run without asking for user confirmation.

    Required?   false

    Position?   named

Default value   False

Accept pipeline input?   False

Accept wildcard characters? false

-Include <System.String[]>

    Specifies services that this cmdlet restarts. The value of this parameter qualifies the Name parameter. Enter a name element or pattern, such as s*. Wildcard

    characters are permitted.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? true

-InputObject <System.ServiceProcess.ServiceController[]>

    Specifies ServiceController objects that represent the services to restart. Enter a variable that contains the objects, or type a command or expression that gets

    the objects.

Required?   true

Position?   0

Default value   None

Accept pipeline input?   True (ByValue)

Accept wildcard characters? false

-Name <System.String[]>

    Specifies the service names of the services to restart.

Required?   true

Position?   0

Default value   None

Accept pipeline input?   True (ByPropertyName, ByValue)

Accept wildcard characters? true

-PassThru <System.Management.Automation.SwitchParameter>

   Returns an object that represents the service. By default, this cmdlet does not generate any output.

   Required?   false

   Position?   named

   Default value   False

   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

   Position?   named

   Default value   False

   Accept pipeline input?   False
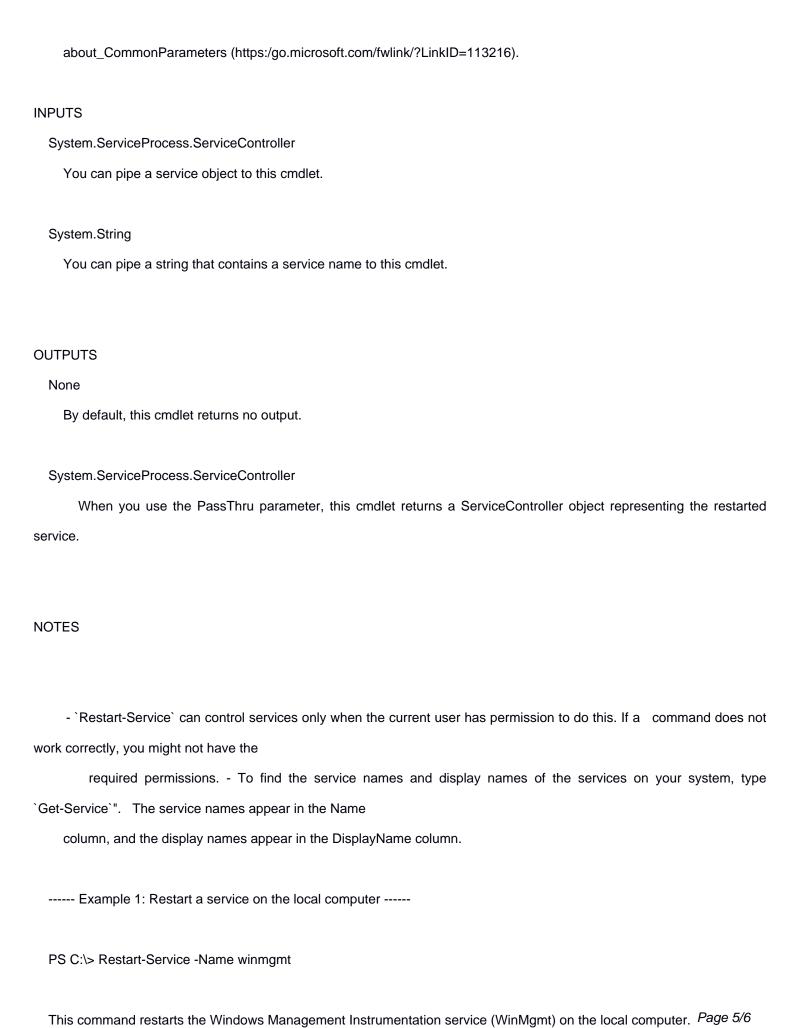
   Accept wildcard characters? false

<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).

INPUTS

System.ServiceProcess.ServiceController

You can pipe a service object to this cmdlet.

System.String

You can pipe a string that contains a service name to this cmdlet.

OUTPUTS

None

By default, this cmdlet returns no output.

System.ServiceProcess.ServiceController

When you use the PassThru parameter, this cmdlet returns a ServiceController object representing the restarted service.

NOTES

- `Restart-Service` can control services only when the current user has permission to do this. If a   command does not work correctly, you might not have the

required permissions. - To find the service names and display names of the services on your system, type `Get-Service`".   The service names appear in the Name

column, and the display names appear in the DisplayName column.

------ Example 1: Restart a service on the local computer ------

PS C:\> Restart-Service -Name winmgmt

This command restarts the Windows Management Instrumentation service (WinMgmt) on the local computer.

---------------- Example 2: Exclude a service ----------------

PS C:\> Restart-Service -DisplayName "net*" -Exclude "net logon"

This command restarts the services that have a display name that starts with Net, except for the Net Logon service.

-------- Example 3: Start all stopped network services --------

PS C:\> Get-Service -Name "net*" | Where-Object {$_.Status -eq "Stopped"} | Restart-Service

This command starts all of the stopped network services on the computer.

This command uses the `Get-Service` cmdlet to get objects that represent the services whose service name starts with net. The pipeline operator (`` `|` ``) sends the

services object to the `Where-Object` cmdlet, which selects only the services that have a status of stopped. Another pipeline operator sends the selected services to

`Restart-Service`.

In practice, you would use the WhatIf parameter to determine the effect of the command before you run it.

RELATED LINKS

Online Version:
https://learn.microsoft.com/powershell/module/microsoft.powershell.management/restart-service?view=powershell-5.1&WT.mc_id=ps-gethelp

Get-Service

New-Service

Resume-Service

Set-Service

Start-Service

Stop-Service

Suspend-Service