



Windows PowerShell Get-Help on Cmdlet 'Remove-Item'

PS:\>Get-HELP Remove-Item -Full

NAME

Remove-Item

SYNOPSIS

Deletes the specified items.

SYNTAX

```
Remove-Item [-Credential <System.Management.Automation.PSCredential>] [-DeleteKey] [-Exclude <System.String[]>]
[-Filter <System.String>] [-Force] [-Include
<System.String[]>] -LiteralPath <System.String[]> [-Recurse] [-Stream <System.String[]>] [-UseTransaction] [-Confirm]
[-WhatIf] [<CommonParameters>]
```

```
Remove-Item [-Path] <System.String[]> [-Credential <System.Management.Automation.PSCredential>] [-DeleteKey]
[-Exclude <System.String[]>] [-Filter <System.String>]
[-Force] [-Include <System.String[]>] [-Recurse] [-Stream <System.String[]>] [-UseTransaction] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

DESCRIPTION

The `Remove-Item` cmdlet deletes one or more items. Because it's supported by many providers, it can delete many different types of items, including files, folders, registry keys, variables, aliases, and functions.

PARAMETERS

`-Credential <System.Management.Automation.PSCredential>`

> [!NOTE] > This parameter isn't supported by any providers installed with PowerShell. > To impersonate another user, or elevate your credentials when running this cmdlet, > use `Invoke-Command` (`../Microsoft.PowerShell.Core/Invoke-Command.md`).

Required?	false
Position?	named
Default value	Current user
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

`-DeleteKey <System.Management.Automation.SwitchParameter>`

This is a dynamic parameter made available by the Certificate provider. The Certificate provider and this parameter are only available on Windows platforms.

When provided, the cmdlet deletes the private key when the certificate is deleted.

For more information, see `about_Certificate_Provider` (`../Microsoft.PowerShell.Security/About/about_Certificate_Provider.md`).

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

`-Exclude <System.String[]>`

Specifies, as a string array, an item or items that this cmdlet excludes in the operation. The value of this parameter qualifies the Path parameter. Enter a path

element or pattern, such as ``.txt``. Wildcard characters are permitted. The Exclude `*` parameter is effective only when the command includes the contents of an

item, such as ``C:\Windows*``, where the wildcard character specifies the contents of the ``C:\Windows`` directory.

When using Recurse with Exclude , Exclude only filters results of the current directory. If there are files that match the Exclude pattern in subfolders, those

files are removed along with its parent directory.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	true

-Filter <System.String>

Specifies a filter to qualify the Path parameter. The FileSystem (`../Microsoft.PowerShell.Core/About/about_FileSystem_Provider.md`) provider is the only installed

PowerShell provider that supports the use of filters. You can find the syntax for the FileSystem filter language in `about_Wildcards`

(`../Microsoft.PowerShell.Core/About/about_Wildcards.md`). Filters are more efficient than other parameters, because the provider applies them when the cmdlet gets

the objects rather than having PowerShell filter the objects after they're retrieved.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	true

-Force <System.Management.Automation.SwitchParameter>

Forces the cmdlet to remove items that can't otherwise be changed, such as hidden or read-only files or read-only

aliases or variables. The cmdlet can't remove

constant aliases or variables. Implementation varies from provider to provider. For more information, see [about_Providers](#)

(../Microsoft.PowerShell.Core/About/about_Providers.md). Even using the Force parameter, the cmdlet can't override security restrictions.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-Include <System.String[]>

Specifies, as a string array, an item or items that this cmdlet includes in the operation. The value of this parameter qualifies the Path parameter. Enter a path

element or pattern, such as `"*.txt"`. Wildcard characters are permitted. The Include * parameter is effective only when the command includes the contents of an

item, such as ``C:\Windows*``, where the wildcard character specifies the contents of the ``C:\Windows`` directory.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	true

-LiteralPath <System.String[]>

Specifies a path to one or more locations. The value of LiteralPath is used exactly as it's typed. No characters are interpreted as wildcards. If the path

includes escape characters, enclose it in single quotation marks. Single quotation marks tell PowerShell not to interpret any characters as escape sequences.

For more information, see [about_Quoting_Rules](#) (../Microsoft.Powershell.Core/About/about_Quoting_Rules.md).

Required? true
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Path <System.String[]>

Specifies a path of the items being removed. Wildcard characters are permitted.

Required? true
Position? 0
Default value None
Accept pipeline input? True (ByPropertyName, ByValue)
Accept wildcard characters? true

-Recurse <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet deletes the items in the specified locations and in all child items of the locations.

The Recurse parameter might not delete all subfolders or all child items. This is a known issue.

> [!NOTE] > This behavior was fixed in Windows versions 1909 and newer.

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-Stream <System.String[]>

This is a dynamic parameter made available by the FileSystem provider. This parameter is only available on Windows.

This parameter can't be used in combination

with the Recurse parameter.

You can use ``Remove-Item`` to delete an alternative data stream, such as ``Zone.Identifier``. However, it isn't the recommended way to eliminate security checks that

block files that are downloaded from the Internet. If you verify that a downloaded file is safe, use the ``Unblock-File`` cmdlet.

This parameter was introduced in Windows PowerShell 3.0.

For more information, see [about_FileSystem_Provider](#) ([../Microsoft.PowerShell.Core/About/about_FileSystem_Provider.md](#)).

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	true

`-UseTransaction` <System.Management.Automation.SwitchParameter>

Includes the command in the active transaction. This parameter is valid only when a transaction is in progress. For more information, see [about_Transactions](#)

([../Microsoft.PowerShell.Core/About/about_Transactions.md](#))

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. For more information, see the following articles:

- [about_Preference_Variables](#) ([../microsoft.powershell.core/about/about_preference_variables.md#confirmpreference](#))-
[about_Functions_CmdletBindingAttribute](#)

([../microsoft.powershell.core/about/about_functions_cmdletbindingattribute.md?#confirmimpact](#))

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 isn't 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.String

You can pipe a string that contains a path, but not a literal path, to this cmdlet.

OUTPUTS

None

This cmdlet returns no output.

Windows PowerShell includes the following aliases for ``Remove-Item``:

- ``del``

- ``erase``

- ``rd``

- ``ri``

- ``rm``

- ``rmdir``

The ``Remove-Item`` cmdlet is designed to work with the data exposed by any provider. To list the providers available in your session, type ``Get-PsProvider``. For

more information, see `about_Providers` (`../Microsoft.PowerShell.Core/About/about_Providers.md`).

When you try to delete a folder that contains items without using the `Recurse` parameter, the cmdlet prompts for confirmation. Using ``-Confirm:$false`` doesn't

suppress the prompt. This is by design.

----- Example 1: Delete files that have any file extension -----

```
Remove-Item C:\Test\*.*
```

----- Example 2: Delete document files in a folder -----

```
Remove-Item * -Include *.doc -Exclude *1*
```


It uses the wildcard character (*) to specify the contents of the current folder. It uses the Include and Exclude parameters to specify the files to delete.

----- Example 3: Delete hidden, read-only files -----

```
Remove-Item -Path C:\Test\hidden-RO-file.txt -Force
```

It uses the Path parameter to specify the file. It uses the Force parameter to delete it. Without Force , you can't delete read-only or hidden files.

----- Example 4: Delete files in subfolders recursively -----

```
Get-ChildItem * -Include *.csv -Recurse | Remove-Item
```

In the Get-ChildItem command, Path has a value of (*), which represents the contents of the current folder. It uses Include to specify the CSV file type, and it

uses Recurse to make the retrieval recursive. If you try to specify the file type in the path, such as -Path *.csv, the cmdlet interprets the subject of the search to be a file that has no child items, and Recurse fails.

> [!NOTE] > This behavior was fixed in Windows versions 1909 and up.

----- Example 5: Delete subkeys recursively -----

```
Remove-Item HKLM:\Software\MyCompany\OldApp -Recurse
```

----- Example 6: Deleting files with special characters -----

```
Get-ChildItem
```

Directory: C:\temp\Downloads

Mode	LastWriteTime	Length	Name
----	-----	-----	----

```
-a---      6/1/2018 12:19 PM      1362 myFile.txt
-a---      6/1/2018 12:30 PM      1132 myFile[1].txt
-a---      6/1/2018 12:19 PM      1283 myFile[2].txt
-a---      6/1/2018 12:19 PM      1432 myFile[3].txt
```

```
Get-ChildItem | Where-Object Name -Like '*`[*'
```

Directory: C:\temp\Downloads

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a---	6/1/2018 12:30 PM	1132	myFile[1].txt
-a---	6/1/2018 12:19 PM	1283	myFile[2].txt
-a---	6/1/2018 12:19 PM	1432	myFile[3].txt

```
Get-ChildItem | Where-Object Name -Like '*`[*' | ForEach-Object { Remove-Item -LiteralPath $_.Name }
```

```
Get-ChildItem
```

Directory: C:\temp\Downloads

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a---	6/1/2018 12:19 PM	1362	myFile.txt

----- Example 7: Remove an alternate data stream -----

```
Get-Item C:\Test\Copy-Script.ps1 -Stream Zone.Identifier
```

```
FileName: \\C:\Test\Copy-Script.ps1
```

Stream	Length
-----	-----

```
Remove-Item C:\Test\Copy-Script.ps1 -Stream Zone.Identifier

Get-Item C:\Test\Copy-Script.ps1 -Stream Zone.Identifier
```

```
Get-Item : Could not open alternate data stream 'Zone.Identifier' of file 'C:\Test\Copy-Script.ps1'.
At line:1 char:1
+ Get-Item 'C:\Test\Copy-Script.ps1' -Stream Zone.Identifier
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Test\Copy-Script.ps1:String) [Get-Item], FileNotFoundException
+ FullyQualifiedErrorId : AlternateDataStreamNotFound,Microsoft.PowerShell.Commands.GetItemCommand
```

The Stream parameter `Get-Item` gets the `Zone.Identifier` stream of the `Copy-Script.ps1` file. `Remove-Item` uses the Stream parameter to remove the

`Zone.Identifier` stream of the file. Finally, the `Get-Item` cmdlet shows that the `Zone.Identifier` stream was deleted.

RELATED LINKS

	Online	Version:
https://learn.microsoft.com/powershell/module/microsoft.powershell.management/remove-item?view=powershell-5.1&WT.mc_id=ps-gethelp		
Clear-Item		
Copy-Item		
Get-Item		
Invoke-Item		
Move-Item		
New-Item		
Remove-ItemProperty		
Rename-Item		
Set-Item		
about_Providers		
about_Preference_Variables		
about_Functions_CmdletBindingAttribute		

