

# Working With Files, Folders and Registry Keys

```
183.82.125.202:4499 - Remote Desktop Connection
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\devops34> Get-Command -Name Get-ChildItem -Syntax

Get-ChildItem [-Path] <string[]> [[-Filter] <string>] [-Include <string[]>] [-Exclude <string[]>] [-Recurse] [-Depth <uint32>] [-Force] [-Name] [-UseTransaction] [-Attributes <FlagsExpression[FileAttributes]>] [-Directory] [-File] [-Hidden] [-ReadOnly] [-System] [<CommonParameters>]

Get-ChildItem [-Filter] <string> -LiteralPath <string[]> [-Include <string[]>] [-Exclude <string[]>] [-Recurse] [-Depth <uint32>] [-Force] [-Name] [-UseTransaction] [-Attributes <FlagsExpression[FileAttributes]>] [-Directory] [-File] [-Hidden] [-ReadOnly] [-System] [<CommonParameters>]

PS C:\Users\devops34> Get-ChildItem -Path C:\Windows -Force

Directory: C:\Windows

Mode                LastWriteTime         Length Name
----                -
d-----          9/15/2018 12:49 PM             ADFS
d-----          9/15/2018 12:49 PM          appcompat
d-----          7/13/2025  6:42 AM  application compatibility scripts
d-----          3/14/2021  5:39 PM          apppatch
d-----          7/21/2022  2:06 PM      AppReadiness
d-r--          7/12/2022  6:04 PM          assembly
d-----          9/15/2018 12:49 PM        bcastdvr
d-----          9/15/2018 12:49 PM          Boot
d-----          9/15/2018 12:49 PM        Branding
d-----          8/27/2022  2:50 PM        CbsTemp
d-----          9/15/2018 12:49 PM        Containers
d-----          3/14/2021  5:39 PM          CSC
d-----          9/15/2018 12:49 PM        Cursors
d-----          7/12/2022  2:18 PM          debug
d-----          9/15/2018 12:49 PM        diagnostics
d-----          9/15/2018  2:37 PM      DigitalLocker
d--s-          9/15/2018 12:49 PM  Downloaded Program Files
d-----          9/15/2018 12:49 PM        drivers
d-r--          7/12/2022  3:16 PM      ELAMBKUP
d-----          9/15/2018  2:37 PM        en-US
d-r--s-          7/12/2022  3:10 PM        Fonts
d-----          9/15/2018 12:49 PM      Globalization
d-----          9/15/2018  2:37 PM          Help
d-----          9/15/2018 12:49 PM      IdentityCRL
d-----          3/14/2021  5:39 PM          INF
d-r--          7/13/2022  2:42 AM  ImmersiveControlPanel
d-----          9/6/2022  5:04 PM          INF
d-----          9/15/2018 12:49 PM      InputMethod
```

```
183.82.125.202:4499 - Remote Desktop Connection
Windows PowerShell

+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

PS C:\Users\devops34> Get-ChildItem -Path C:\Windows\w*
PS C:\Users\devops34> Get-ChildItem -Path C:\Windows\xz*
PS C:\Users\devops34> Get-ChildItem -Path C:\WINDOWS\System32\w*32*.dll -Exclude win*
>>
>> Directory: C:\WINDOWS\System32
>>

Directory: C:\WINDOWS\System32

Mode                LastWriteTime         Length Name
----                -
-a---          3/14/2021  5:37 PM        647680 w32time.dll
-a---          9/15/2018 12:42 PM         35328 w32top1.dll
-a---          3/14/2021  5:37 PM        367104 Wldap32.dll
-a---          3/14/2021  5:37 PM        434952 ws2_32.dll
-a---          9/15/2018 12:42 PM        665600 wsnmp32.dll
-a---          9/15/2018 12:42 PM        18944 wsock32.dll
-a---          9/15/2018 12:42 PM         64792 wtsapi32.dll

Directory: : The term 'Directory:' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or that the path is correct and try again.
At line:3 char:5
+ Directory: C:\WINDOWS\System32
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (Directory:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\devops34> Get-ChildItem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
Get-ChildItem : Access to the path 'C:\Windows\appcompat\Programs' is denied.
At line:1 char:1
+ Get-ChildItem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\appcompat\Programs:String) [Get-ChildItem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

Get-ChildItem : Access to the path 'C:\Windows\LiveKernelReports' is denied.
At line:1 char:1
+ Get-ChildItem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\LiveKernelReports:String) [Get-ChildItem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

Get-ChildItem : Access to the path 'C:\Windows\Logs\WindowsServerBackup' is denied.
```

```
PS C:\Users\devops34> Get-Childitem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
Get-Childitem : Access to the path 'C:\Windows\appcompat\Programs' is denied.
At line:1 char:1
+ Get-Childitem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\appcompat\Programs:String) [Get-Childitem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

Get-Childitem : Access to the path 'C:\Windows\LiveKernelReports' is denied.
At line:1 char:1
+ Get-Childitem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\LiveKernelReports:String) [Get-Childitem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

Get-Childitem : Access to the path 'C:\Windows\Logs\WindowsServerBackup' is denied.
At line:1 char:1
+ Get-Childitem -Path C:\Windows\*.dll -Recurse -Exclude [a-y]*.dll
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\Logs\WindowsServerBackup:String) [Get-Childitem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

PS C:\Users\devops34> Get-Childitem -Path C:\Windows -Include *.dll -Recurse -Exclude [a-y]*.dll
>>
>> Directory: Microsoft.Windows.PowerShell.Core\FileSystem:C:\Windows\System32\Setup
>>
Get-Childitem : Access to the path 'C:\Windows\appcompat\Programs' is denied.
At line:1 char:1
+ Get-Childitem -Path C:\Windows -Include *.dll -Recurse -Exclude [a-y] ...
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\appcompat\Programs:String) [Get-Childitem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

Get-Childitem : Access to the path 'C:\Windows\LiveKernelReports' is denied.
At line:1 char:1
+ Get-Childitem -Path C:\Windows -Include *.dll -Recurse -Exclude [a-y] ...
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\LiveKernelReports:String) [Get-Childitem], UnauthorizedAccessException
+ FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand

Get-Childitem : Access to the path 'C:\Windows\Logs\WindowsServerBackup' is denied.
At line:1 char:1
+ Get-Childitem -Path C:\Windows -Include *.dll -Recurse -Exclude [a-y] ...
+ ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Windows\Logs\WindowsServerBackup:String) [Get-Childitem], UnauthorizedAccessException
```