



python



PowerShell

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PowerShell Get-Help on command 'Get-SmbOpenFile'

PS C:\Users\wahid> Get-Help Get-SmbOpenFile

NAME

Get-SmbOpenFile

SYNOPSIS

Retrieves basic information about the files that are open on behalf of the clients of the SMB server.

SYNTAX

```
Get-SmbOpenFile [[-FileId] <UInt64[]>] [[-SessionId] <UInt64[]>]
[[-ClientComputerName] <String[]>] [[-ClientUserName] <String[]>]
[[-ScopeName] <String[]>] [[-ClusterNodeName] <String[]>] [-AsJob]
[-CimSession <CimSession[]>] [-IncludeHidden] [-SmbInstance {Default | CSV |
SBL | SR}] [-ThrottleLimit <Int32>] [<CommonParameters>]
```

DESCRIPTION

The Get-SmbOpenFile cmdlet retrieves basic information about the files that are open on behalf of the clients of the Server Message Block (SMB) server.

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

-CimSession <CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a `New-CimSession` (<https://go.microsoft.com/fwlink/p/?LinkId=227967>) or `[Get-CimSession](https://go.microsoft.com/fwlink/p/?LinkId=227966)cmdlet`. The default is the current session on the local computer.

-ClientComputerName <String[]>

Specifies the filters for the returned open files so that only files opened from the specified client computer are returned.

-ClientUserName <String[]>

Specifies the name of the user whose open files are retrieved.

-ClusterNodeName <String[]>

Specifies, in the case of a share hosted by a windows cluster, the name of the server which hosts the open files that are retrieved.

-FileId <UInt64[]>

Specifies the file identifier (ID) of the file for which the information is retrieved.

-IncludeHidden [<SwitchParameter>]

Indicates that handles that are created and used internally are enumerated also.

-ScopeName <String[]>

Specifies the scope of the open files that are retrieved.

-SessionId <UInt64[]>

Specifies a session ID. This cmdlet returns only files that have been opened in the specified session.

-SmbInstance <SmbInstance>

Specifies the input to this cmdlet. You can use this parameter, or you can pipe the input to this cmdlet.

-ThrottleLimit <Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then Windows PowerShell calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit applies only to the current cmdlet, not to the session or to the computer.

<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).

----- Example 1: Get information about opened files -----

```
PS C:\>Get-SMBOpenFile
```

Field	SessionId	Path	ShareRelativePath
ClientComputerName	ClientUserName		
-----	-----	----	-----
-----	-----		
4415226382229	4415226380377	C:\ClusterStorag...	VM4\Virtual
Mach...	192.168.102.14	Contoso\Contoso-HV2\$	
4415226382237	4415226380385	C:\ClusterStorag...	VM4\VIRTUAL

MACH... 192.168.102.14 Contoso\Contoso-HV2\$
4415226383517 4415226380393 C:\ClusterStorag... VM4\VIRTUAL
MACH... 192.168.102.14 Contoso\Contoso-HV2\$
4415226383521 4415226380393 C:\ClusterStorag... VM4\Virtual
Mach... 192.168.102.14 Contoso\Contoso-HV2\$
4415226383529 4415226380393 C:\ClusterStorag... VM4\Virtual
Mach... 192.168.102.14 Contoso\Contoso-HV2\$
4415226383569 4415226380393 C:\ClusterStorag... VM4.VHDX
192.168.102.14 Contoso\Contoso-HV2\$
4415226383589 4415226380393 C:\ClusterStorag... VM4.VHDX
192.168.102.14 Contoso\Contoso-HV2\$
8813541326973 8813272891469 I:\VMS\VM1\VIRTU... VM1\VIRTUAL
MACH... 192.168.101.13 Contoso\Contoso-HV1\$
8813541326977 8813272891469 I:\VMS\VM1\Virtu... VM1\Virtual
Mach... 192.168.101.13 Contoso\Contoso-HV1\$
8813541326993 8813272891469 I:\VMS\VM1.VHDX VM1.VHDX
192.168.101.13 Contoso\Contoso-HV1\$
8813541326997 8813272891469 I:\VMS\VM1\Virtu... VM1\Virtual
Mach... 192.168.101.13 Contoso\Contoso-HV1\$
8813541327109 8813272891469 I:\VMS\VM1.VHDX VM1.VHDX
192.168.101.13 Contoso\Contoso-HV1\$
8813272891805 8813272891441 I:\VMS\VM1\Virtu... VM1\Virtual
Mach... 192.168.101.13 Contoso\Contoso-HV1\$
8813272891813 8813272891449 I:\VMS\VM1\VIRTU... VM1\VIRTUAL
MACH... 192.168.101.13 Contoso\Contoso-HV1\$
8813541327273 8813272891581 D:\VMS\VM5\VIRTU... VM5\VIRTUAL
MACH... 192.168.102.13 Contoso\Contoso-HV1\$
8813541327281 8813272891585 D:\VMS\VM5\VIRTU... VM5\VIRTUAL
MACH... 192.168.102.13 Contoso\Contoso-HV1\$
8813272892105 8813272891457 C:\ClusterStorag... VM3\Virtual
Mach... 192.168.101.13 Contoso\Contoso-HV1\$
8813272892113 8813272891461 C:\ClusterStorag... VM3\VIRTUAL
MACH... 192.168.101.13 Contoso\Contoso-HV1\$

```

8813541328145    8813272891517    J:\VMS\VM2\VIRTU... VM2\VIRTUAL
MACH... 192.168.102.14    Contoso\Contoso-HV2$
8813541328149    8813272891517    J:\VMS\VM2\Virtu... VM2\Virtual
Mach... 192.168.102.14    Contoso\Contoso-HV2$
8813541328157    8813272891517    J:\VMS\VM2\Virtu... VM2\Virtual
Mach... 192.168.102.14    Contoso\Contoso-HV2$
8813541328213    8813272891517    J:\VMS\VM2.VHDX    VM2.VHDX
192.168.102.14    Contoso\Contoso-HV2$
8813272892765    8813272891489    J:\VMS\VM2\Virtu... VM2\Virtual
Mach... 192.168.102.14    Contoso\Contoso-HV2$
8813541328225    8813272891517    J:\VMS\VM2.VHDX    VM2.VHDX
192.168.102.14    Contoso\Contoso-HV2$
8813272892773    8813272891493    J:\VMS\VM2\VIRTU... VM2\VIRTUAL
MACH... 192.168.102.14    Contoso\Contoso-HV2$
8813541328421    8813272891609    D:\VMS\VM5\Virtu... VM5\Virtual
Mach... 192.168.102.13    Contoso\Contoso-HV1$
8813541328425    8813272891609    D:\VMS\VM5\VIRTU... VM5\VIRTUAL
MACH... 192.168.102.13    Contoso\Contoso-HV1$
8813541328457    8813272891609    D:\VMS\VM5\Virtu... VM5\Virtual
Mach... 192.168.102.13    Contoso\Contoso-HV1$
8813541328501    8813272891613    C:\ClusterStorag... VM3.VHDX
192.168.101.13    Contoso\Contoso-HV1$
8813541328529    8813272891613    C:\ClusterStorag... VM3.VHDX
192.168.101.13    Contoso\Contoso-HV1$

```

This command retrieves basic information about the files that are open on behalf of the clients of the SMB server.

----- Example 2: Get information about an opened file -----

```

PS C:\>Get-SmbOpenFile -FileId 4415226383569 | Select-Object -Property *
ClientComputerName    : 192.168.102.14
ClientUserName        : Contoso\Contoso-HV2$
ClusterNodeName       : Contoso-FS2

```

```

ContinuouslyAvailable : True
Encrypted              : False
FileId                : 4415226383569
Locks                 : 1
Path                  : C:\ClusterStorage\Volume2\VMS\VM4.VHDX
Permissions           : 1179785
ScopeName             : Contoso-SO
SessionId             : 4415226380393
ShareRelativePath    : VM4.VHDX
PSComputerName       :
CimClass              : ROOT/Microsoft/Windows/SMB:MSFT_SmbOpenFile
CimInstanceProperties : {ClientComputerName, ClientUserName, ClusterNodeName,
ContinuouslyAvailable...}
CimSystemProperties  : Microsoft.Management.Infrastructure.CimSystemProperties

```

This command retrieves all information about the file identified as 4415226383569 that is open on behalf of the clients of the SMB server.

Example 3: Get information about a file opened for an SMB client

```
PS C:\>Get-SmbOpenFile -SessionId 4415226380393
```

FileId	SessionId	Path	ShareRelativePath
ClientComputerName	ClientUserName		
4415226383517	4415226380393	C:\ClusterStorag...	VM4\VIRTUAL
MACH...	192.168.102.14	Contoso\Contoso-HV2\$	
4415226383521	4415226380393	C:\ClusterStorag...	VM4\Virtual
Mach...	192.168.102.14	Contoso\Contoso-HV2\$	
4415226383529	4415226380393	C:\ClusterStorag...	VM4\Virtual
Mach...	192.168.102.14	Contoso\Contoso-HV2\$	
4415226383569	4415226380393	C:\ClusterStorag...	VM4.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
4415226383589	4415226380393	C:\ClusterStorag...	VM4.VHDX

192.168.102.14 Contoso\Contoso-HV2\$

This command retrieves basic information about the files that are open on behalf of the SMB client identified as 4415226380393 of the SMB server.

Example 4: Get information about a file opened for an SMB client on an SMB server

```
PS C:\>Get-SmbOpenFile -ScopeName "Contoso-SO"
```

FileId	SessionId	Path	ShareRelativePath
ClientComputerName	ClientUserName		
-----	-----	----	-----
-----	-----		-----
4415226382229	4415226380377	C:\ClusterStorag...	VM4\Virtual
Mach... 192.168.102.14	Contoso\Contoso-HV2\$		
4415226382237	4415226380385	C:\ClusterStorag...	VM4\VIRTUAL
MACH... 192.168.102.14	Contoso\Contoso-HV2\$		
4415226383517	4415226380393	C:\ClusterStorag...	VM4\VIRTUAL
MACH... 192.168.102.14	Contoso\Contoso-HV2\$		
4415226383521	4415226380393	C:\ClusterStorag...	VM4\Virtual
Mach... 192.168.102.14	Contoso\Contoso-HV2\$		
4415226383529	4415226380393	C:\ClusterStorag...	VM4\Virtual
Mach... 192.168.102.14	Contoso\Contoso-HV2\$		
4415226383569	4415226380393	C:\ClusterStorag...	VM4.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
4415226383589	4415226380393	C:\ClusterStorag...	VM4.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
8813272892105	8813272891457	C:\ClusterStorag...	VM3\Virtual
Mach... 192.168.101.13	Contoso\Contoso-HV1\$		
8813272892113	8813272891461	C:\ClusterStorag...	VM3\VIRTUAL
MACH... 192.168.101.13	Contoso\Contoso-HV1\$		
8813541328501	8813272891613	C:\ClusterStorag...	VM3.VHDX
192.168.101.13	Contoso\Contoso-HV1\$		
8813541328529	8813272891613	C:\ClusterStorag...	VM3.VHDX

192.168.101.13 Contoso\Contoso-HV1\$

This command retrieves basic information about the files that are open on behalf of the SMB client of the SMB server named Contoso-SO.

Example 5: Get information about files that have a specified file name extension

```
PS C:\>Get-SmbOpenFile | Where-Object -Property ShareRelativePath -Match ".VHDX"
```

FileId	SessionId	Path	ShareRelativePath
ClientComputerName	ClientUserName		
-----	-----	---	-----
-----	-----		
4415226383569	4415226380393	C:\ClusterStorag...	VM4.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
4415226383589	4415226380393	C:\ClusterStorag...	VM4.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
8813541326993	8813272891469	I:\VMS\VM1.VHDX	VM1.VHDX
192.168.101.13	Contoso\Contoso-HV1\$		
8813541327109	8813272891469	I:\VMS\VM1.VHDX	VM1.VHDX
192.168.101.13	Contoso\Contoso-HV1\$		
8813541328213	8813272891517	J:\VMS\VM2.VHDX	VM2.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
8813541328225	8813272891517	J:\VMS\VM2.VHDX	VM2.VHDX
192.168.102.14	Contoso\Contoso-HV2\$		
8813541328501	8813272891613	C:\ClusterStorag...	VM3.VHDX
192.168.101.13	Contoso\Contoso-HV1\$		
8813541328529	8813272891613	C:\ClusterStorag...	VM3.VHDX
192.168.101.13	Contoso\Contoso-HV1\$		

This command retrieves basic information about the files that have the file name extension of .VHDX that are open on behalf of the SMB client of the SMB server.

REMARKS

To see the examples, type: "get-help Get-SmbOpenFile -examples".

For more information, type: "get-help Get-SmbOpenFile -detailed".

For technical information, type: "get-help Get-SmbOpenFile -full".

For online help, type: "get-help Get-SmbOpenFile -online"