



python



PowerShell

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PowerShell Get-Help on command 'Get-SmbClientNetworkInterface'

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

NAME

Get-SmbClientNetworkInterface

SYNOPSIS

Retrieves the network interfaces used by the SMB client.

SYNTAX

```
Get-SmbClientNetworkInterface [-AsJob] [-CimSession <CimSession[]>]
[-ThrottleLimit <Int32>] [<CommonParameters>]
```

DESCRIPTION

The Get-SmbClientNetworkInterface cmdlet retrieves the network interfaces used by the Server Message Block (SMB) client.

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.

-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>).

--- Example 1: Get network interfaces used by an SMB client ---

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

Interface Index	RSS Capable	RDMA Capable	Speed
12	True	True	32 Gbps
{192.168.101.13}	RDMA1		
15	True	True	32 Gbps
{192.168.102.13}	RDMA2		

```

17          False          False          0 bps
{fe80::5efe:192.... isatap.{EF722F0D...
18          False          False          0 bps
{fe80::5efe:192.... isatap.{BD3C4A04...
19          False          False          0 bps
{fe80::5efe:192.... isatap.{597B0A73...
20          False          False          0 bps
{fe80::6065:ddb... Local Area Conne...
32          False          False          10 Gbps
{172.30.182.10} ExternalVirtual
16          False          False          3 Gbps
{2001:4898:0:fff... isatap.corp.cont...
14          False          False          1 Gbps
{192.168.100.13} Internal

```

This command retrieves the network interfaces used by the SMB client.

Example 2: Get network interfaces used by an SMB client for a specified link speed

```
PS C:\>Get-SmbClientNetworkInterface | Where-Object -Property LinkSpeed -Gt 10GB
```

```

Interface Index  RSS Capable  RDMA Capable  Speed
-----
IpAddresses      Friendly Name
-----
-----
12              True         True           32 Gbps
{192.168.101.13} RDMA1
15              True         True           32 Gbps
{192.168.102.13} RDMA2

```

This command retrieves the network interfaces used by the SMB client that match the link speed of 10 gigabits or more.

----- Example 3: Display details for network interfaces -----

```
PS C:\>Get-SmbClientNetworkInterface | Where-Object -Property LinkSpeed -Gt
10GB | Select-Object -Property *
```

```
FriendlyName      : RDMA1
```

```
InterfaceIndex    : 12
```

```
IpAddresses       : {192.168.101.13}
```

```
LinkSpeed         : 32000000000
```

```
RdmaCapable       : True
```

```
RssCapable        : True
```

```
PSComputerName    :
```

```
CimClass          :
```

```
ROOT/Microsoft/Windows/SMB:MSFT_SmbClientNetworkInterface
```

```
CimInstanceProperties : {FriendlyName, InterfaceIndex, IpAddresses,
LinkSpeed...}
```

```
CimSystemProperties  :
```

```
Microsoft.Management.Infrastructure.CimSystemProperties
```

```
FriendlyName      : RDMA2
```

```
InterfaceIndex    : 15
```

```
IpAddresses       : {192.168.102.13}
```

```
LinkSpeed         : 32000000000
```

```
RdmaCapable       : True
```

```
RssCapable        : True
```

```
PSComputerName    :
```

```
CimClass          :
```

```
ROOT/Microsoft/Windows/SMB:MSFT_SmbClientNetworkInterface
```

```
CimInstanceProperties : {FriendlyName, InterfaceIndex, IpAddresses,
LinkSpeed...}
```

```
CimSystemProperties  : Microsoft.Management.Infrastructure.CimSystemProperties
```

This command displays all of the information retrieved from the network interfaces used by the SMB client that match the link speed of 10 gigabits or more.

REMARKS

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

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

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

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