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Windows PowerShell Get-Help on Cmdlet 'Get-SmbClientNetworkInterface'

PS:\>Get-HELP Get-SmbClientNetworkInterface -Full

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.

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

-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.

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

-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.

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

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

None

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#root/Microsoft/Windows/SMB/MSFT_SmbClientNetworkInterface

The `Microsoft.Management.Infrastructure.CimInstance` object is a wrapper class that displays Windows Management Instrumentation (WMI) objects. The path after the

pound sign (`#`) provides the namespace and class name for the underlying WMI object. This cmdlet returns a MSFT_SmbClientNetworkInterface object that represents the network interfaces used by the SMB client.

NOTES

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

PS C:\>Get-SmbClientNetworkInterface

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
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         : 320000000000
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      : 320000000000
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.

RELATED LINKS

	Online	Version:
Get-SmbServerNetworkInterface		