



python



PowerShell

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PowerShell Get-Help on command 'Get-SmbServerNetworkInterface'

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

NAME

Get-SmbServerNetworkInterface

SYNOPSIS

Retrieves the network interfaces used by the SMB server.

SYNTAX

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

DESCRIPTION

The Get-SmbServerNetworkInterface cmdlet retrieves the network interfaces that are used by 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.

-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 -----

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

Scope Name	Interface Index	RSS Capable	RDMA Capable
Speed	IpAddress		
-----	-----	-----	-----
-----	-----		
Contoso-FS	14	False	False
1 Gbps	192.168.100.22		
Contoso-FS	12	True	True
32 Gbps	192.168.101.22		

Contoso-FS	15	True	True
32 Gbps	192.168.102.22		
*	15	True	True
32 Gbps	192.168.102.22		
*	15	True	True
32 Gbps	192.168.102.11		
*	14	False	False
1 Gbps	192.168.100.22		
*	14	False	False
1 Gbps	192.168.100.11		
*	13	False	False
1 Gbps	172.30.182.8		
*	12	True	True
32 Gbps	192.168.101.22		
*	12	True	True
32 Gbps	192.168.101.11		
Contoso-SO	15	True	True
32 Gbps	192.168.102.11		
Contoso-SO	14	False	False
1 Gbps	192.168.100.11		
Contoso-SO	12	True	True
32 Gbps	192.168.101.11		
FE80::C8C0:F65D:... 13		False	False
1 Gbps	172.30.182.8		

This command retrieves the network interfaces that are used by the SMB server.

--- Example 2: Get network interfaces that match a property ---

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

Scope Name	Interface Index	RSS Capable	RDMA Capable
Speed	IpAddress		

```

-----
Contoso-FS      12          True      True
32 Gbps        192.168.101.22
Contoso-FS      15          True      True
32 Gbps        192.168.102.22
*              15          True      True
32 Gbps        192.168.102.22
*              15          True      True
32 Gbps        192.168.102.11
*              12          True      True
32 Gbps        192.168.101.22
*              12          True      True
32 Gbps        192.168.101.11
Contoso-SO      15          True      True
32 Gbps        192.168.102.11
Contoso-SO      12          True      True
32 Gbps        192.168.101.11

```

This command retrieves the network interfaces that are used by the SMB server that have the link speed of 10 gigabits or faster.

--- Example 3: Get network interfaces for a specific server ---

```
PS C:\>Get-SmbServerNetworkInterface | Where-Object -Property ScopeName -Eq
```

```
Contoso-FS
```

```

Scope Name      Interface Index  RSS Capable      RDMA Capable
Speed           IpAddress
-----

```

```

-----
-----
Contoso-FS      14          False           False
1 Gbps         192.168.100.22
Contoso-FS      12          True            True
32 Gbps        192.168.101.22
Contoso-FS      15          True            True

```

32 Gbps 192.168.102.22

This command retrieves the network interfaces that are used by the SMB server named Contoso-FS.

Example 4: Get properties of network interfaces of an SMB server

```
PS C:\>Get-SmbServerNetworkInterface | Where-Object -Property ScopeName -Eq  
Contoso-FS | Select-Object -Property *
```

FriendlyName : Internal

InterfaceIndex : 14

IpAddress : 192.168.100.22

LinkSpeed : 10000000000

RdmaCapable : False

RssCapable : False

ScopeName : Contoso-FS

PSComputerName :

CimClass :

ROOT/Microsoft/Windows/SMB:MSFT_SmbServerNetworkInterface

CimInstanceProperties : {FriendlyName, InterfaceIndex, IpAddress,
LinkSpeed...}

CimSystemProperties :

Microsoft.Management.Infrastructure.CimSystemProperties

FriendlyName : RDMA1

InterfaceIndex : 12

IpAddress : 192.168.101.22

LinkSpeed : 32000000000

RdmaCapable : True

RssCapable : True

ScopeName : Contoso-FS

PSComputerName :

CimClass :

ROOT/Microsoft/Windows/SMB:MSFT_SmbServerNetworkInterface

CimInstanceProperties : {FriendlyName, InterfaceIndex, IpAddress,
LinkSpeed...}

CimSystemProperties :

Microsoft.Management.Infrastructure.CimSystemProperties

FriendlyName : RDMA2

InterfaceIndex : 15

IpAddress : 192.168.102.22

LinkSpeed : 32000000000

RdmaCapable : True

RssCapable : True

ScopeName : Contoso-FS

PSComputerName :

CimClass :

ROOT/Microsoft/Windows/SMB:MSFT_SmbServerNetworkInterface

CimInstanceProperties : {FriendlyName, InterfaceIndex, IpAddress,
LinkSpeed...}

CimSystemProperties : Microsoft.Management.Infrastructure.CimSystemProperties

This command retrieves all properties of the network interfaces that are used
by the SMB server named Contoso-FS.

REMARKS

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

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

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

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