PowerShell Get-Help on command 'Get-NetOffloadGlobalSetting'

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

NAME

Get-NetOffloadGlobalSetting

SYNOPSIS

Gets the global TCP/IP offload settings.

SYNTAX

Get-NetOffloadGlobalSetting [-AsJob] [-Chimney {Disabled | Enabled |

Automatic}] [-CimSession <CimSession[]>] [-NetworkDirect {Disabled | Enabled}]

[-NetworkDirectAcrossIPSubnets {Blocked | Allowed}] [-PacketCoalescingFilter

{Disabled | Enabled}] [-ReceiveSegmentCoalescing {Disabled | Enabled}]

[-ReceiveSideScaling {Disabled | Enabled}] [-TaskOffload {Disabled | Enabled}]

[-ThrottleLimit <Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetOffloadGlobalSetting cmdlet gets the global TCP/IP offload

settings. These settings include Receive Side Scaling, Receive Segment

Coalescing, task offload, and NetworkDirect.

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands

that take a long time to complete.

-Chimney <ChimneyEnum[]>

Specifies an array of values of TCP Chimney global state on the computer.

The acceptable values for this parameter are:

- Enabled

- Disabled

- Automatic

The default value is Disabled.

In Automatic mode, TCP Chimney Offload offloads the processing for a

connection only if certain following criteria are met. In enabled mode,

TCP Chimney Offload offloads the processing for connections on a

first-come, first-served basis. For more information, see Using TCP

Chimney Offload

(https://technet.microsoft.com/en-us/library/gg162709(v=ws.10))in the

TechNet library.

-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.

-NetworkDirect <EnabledDisabledEnum[]>

   Specifies an array of NetworkDirect Remote Direct Memory Access (RDMA)

   values on the computer. Use this parameter only on servers. The acceptable

   values for this parameter are:

   - Enabled

   - Disabled

   The default value is Enabled.

-NetworkDirectAcrossIPSubnets <AllowedBlockedEnum[]>

   Specifies an array of NetworkDirect connectivity values from outside a

   local IP network. The acceptable values for this parameter are:

   - Allowed

   - Blocked

-PacketCoalescingFilter <EnabledDisabledEnum[]>

   Specifies the values for a packet-coalescing filter on the computer. To

   reduce the number of interrupts that a computer processes, the

   packet-coalescing filter combines random broadcast and multicast packets,

   such as Address Resolution Protocol (ARP) requests, Neighbor Discovery

   messages, and Simple Service Discovery Protocol (SSDP) requests, into a

   single packet. Use this parameter only on client computers. The acceptable

   values for this parameter are:

   - Enabled

- Disabled

The default value is Enabled.

-ReceiveSegmentCoalescing <EnabledDisabledEnum[]>

Specifies the Receive Segment Coalescing settings on the network adapter.

Receive Segment Coalescing parses small packets of data and combines the

data into a single packet. Coalescing small packets into a single packet

reduces the overhead that is required to process packets. The acceptable

values for this parameter are:

- Enabled

- Disabled

The default value is Enabled.

-ReceiveSideScaling <EnabledDisabledEnum[]>

Specifies the Receive Side Scaling settings on the computer. Receive Side

Scaling distributes the network processing load across multiple processor

cores. The acceptable values for this parameter are:

- Enabled

- Disabled

The default value is Enabled.

-TaskOffload <EnabledDisabledEnum[]>

    Specifies the global TCP/IP task offload settings on the computer. Task

    offload settings include IP checksum offload, Internet Protocol security

    (IPsec) task offload, and Large Send Offload. These features reduce the

    overhead of per-packet processing by distributing packet processing tasks,

    such as checksum calculation, to a network adapter. The acceptable values

    for this parameter are:

    - Enabled

    - Disabled

    The default value is Enabled.

-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 PowerShellr 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 global TCP/IP offload settings --------

PS C:\>Get-NetOffloadGlobalSetting

This command gets the global TCP/IP offload settings on the computer.

REMARKS

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

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

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

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