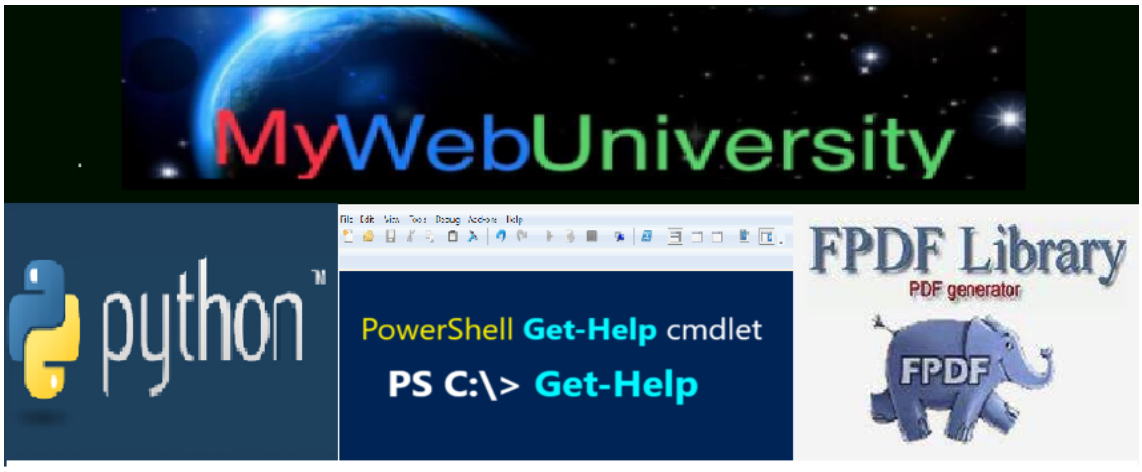

Full credit is given to all the above companies including the Operating System that this PDF file was generated!

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

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

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.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

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

-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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NetworkDirectAcrossIPSubnets <AllowedBlockedEnum[]>

Specifies an array of NetworkDirect connectivity values from outside a local IP network. The acceptable values for this parameter are:

- Allowed

- Blocked

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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.

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 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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

<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).

INPUTS

None

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\MSFT_NetOffloadGlobalSetting

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.

NOTES

-------- Example 1: Get global TCP/IP offload settings --------

PS C:\>Get-NetOffloadGlobalSetting

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

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/nettcpip/get-netoffloadglobalsetting?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Set-NetOffloadGlobalSetting