



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

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

WARNING: The names of some imported commands from the module 'Microsoft.Azure.PowerShell.Cmdlets.Network' include unapproved verbs that might make them less discoverable.

To find the commands with unapproved verbs, run the Import-Module command again with the Verbose parameter. For a list of approved verbs, type Get-Verb.

NAME

Get-AzNetworkWatcherNextHop

SYNOPSIS

Gets the next hop from a VM.

SYNTAX

```

Get-AzNetworkWatcherNextHop [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -DestinationIpAddress
<System.String> -Location <System.String> -SourceIpAddress <System.String> [-TargetNetworkInterfaceId
<System.String>] -TargetVirtualMachineId <System.String>
[<CommonParameters>]

```

```

Get-AzNetworkWatcherNextHop [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -DestinationIpAddress

```

```

        <System.String> -NetworkWatcher <Microsoft.Azure.Commands.Network.Models.PSNetworkWatcher>
-SourceIPAddress <System.String> [-TargetNetworkInterfaceId
    <System.String>] -TargetVirtualMachineId <System.String> [<CommonParameters>]

Get-AzNetworkWatcherNextHop [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -DestinationIPAddress
    <System.String> -NetworkWatcherName <System.String> -ResourceGroupName <System.String> -SourceIPAddress
<System.String> [-TargetNetworkInterfaceId <System.String>]
    -TargetVirtualMachineId <System.String> [<CommonParameters>]

```

DESCRIPTION

The Get-AzNetworkWatcherNextHop cmdlet gets the next hop from a VM. Next hop allows you to view the type of Azure resource, the associated IP address of that resource, and the routing table rule that is responsible for the route.

PARAMETERS

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DestinationIPAddress <System.String>

Destination IP address.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Location <System.String>

Location of the network watcher.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NetworkWatcher <Microsoft.Azure.Commands.Network.Models.PSNetworkWatcher>

The network watcher resource.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-NetworkWatcherName <System.String>

The name of network watcher.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByValue)
Accept wildcard characters? false

-ResourceGroupName <System.String>

The name of the network watcher resource group.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-SourceIPAddress <System.String>

Source IP address.

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

-TargetNetworkInterfaceId <System.String>

Target network interface Id.

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

-TargetVirtualMachineId <System.String>

The target virtual machine ID.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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

Microsoft.Azure.Commands.Network.Models.PSNetworkWatcher

System.String

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSNextHopResult

NOTES

Keywords: azure, azurearm, arm, resource, management, manager, network, networking, network watcher, next, hop

Example 1: Get the Next Hop when communicating with an Internet IP

```
$nw = Get-AzResource | Where-Object {$_.ResourceType -eq "Microsoft.Network/networkWatchers" -and $_.Location -eq "WestCentralUS" }

$networkWatcher = Get-AzNetworkWatcher -Name $nw.Name -ResourceGroupName $nw.ResourceGroupName

$VM = Get-AzVM -ResourceGroupName ContosoResourceGroup -Name VM0

$Nics = Get-AzNetworkInterface | Where-Object {$_.Id -eq $vm.NetworkProfile.NetworkInterfaces.Id.Each($_) }

Get-AzNetworkWatcherNextHop -NetworkWatcher $networkWatcher -TargetVirtualMachineId $VM.Id -SourceIpAddress $Nics[0].IpConfigurations[0].PrivateIpAddress -DestinationIpAddress 204.79.197.200
```

```
NextHopIpAddress NextHopType RouteTableId
```

```
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```

```
Internet System Route
```

Gets the Next Hop for outbound communication from the primary Network Interface on the specified Virtual Machine to 204.79.197.200 (www.bing.com)

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.network/get-aznetworkwatchernexthop>

New-AzNetworkWatcher

Get-AzNetworkWatcher

Remove-AzNetworkWatcher

Get-AzNetworkWatcherNextHop

Get-AzNetworkWatcherSecurityGroupView

Get-AzNetworkWatcherTopology

Start-AzNetworkWatcherResourceTroubleshooting

New-AzNetworkWatcherPacketCapture

New-AzPacketCaptureFilterConfig

Get-AzNetworkWatcherPacketCapture

Remove-AzNetworkWatcherPacketCapture

Stop-AzNetworkWatcherPacketCapture
New-AzNetworkWatcherProtocolConfiguration
Test-AzNetworkWatcherIPFlow
Test-AzNetworkWatcherConnectivity
Stop-AzNetworkWatcherConnectionMonitor
Start-AzNetworkWatcherConnectionMonitor
Set-AzNetworkWatcherConnectionMonitor
Set-AzNetworkWatcherConfigFlowLog
Remove-AzNetworkWatcherConnectionMonitor
New-AzNetworkWatcherConnectionMonitor
Get-AzNetworkWatcherTroubleshootingResult
Get-AzNetworkWatcherReachabilityReport
Get-AzNetworkWatcherReachabilityProvidersList
Get-AzNetworkWatcherFlowLogStatus
Get-AzNetworkWatcherConnectionMonitorReport
Get-AzNetworkWatcherConnectionMonitor