



Windows PowerShell Get-Help on Cmdlet 'Test-AzNetworkWatcherConnectivity'

PS: \> Get-HELP Test-AzNetworkWatcherConnectivity -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

Test-AzNetworkWatcherConnectivity

SYNOPSIS

Returns connectivity information for a specified source VM and a destination.

SYNTAX

```
Test-AzNetworkWatcherConnectivity [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DestinationAddress <System.String>] [-DestinationId <System.String>] [-DestinationPort <System.Int32>] -Location
<System.String> [-ProtocolConfiguration
<Microsoft.Azure.Commands.Network.Models.PSNetworkWatcherProtocolConfiguration>] -SourceId <System.String>
[-SourcePort <System.Int32>] [<CommonParameters>]
```

```

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
    [-DestinationAddress <System.String>] [-DestinationId <System.String>] [-DestinationPort <System.Int32>]
-NetworkWatcher
    <Microsoft.Azure.Commands.Network.Models.PSNetworkWatcher> [-ProtocolConfiguration
<Microsoft.Azure.Commands.Network.Models.PSNetworkWatcherProtocolConfiguration>]
    -SourceId <System.String> [-SourcePort <System.Int32>] [<CommonParameters>]

Test-AzNetworkWatcherConnectivity [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
    [-DestinationAddress <System.String>] [-DestinationId <System.String>] [-DestinationPort <System.Int32>]
-NetworkWatcherName <System.String> [-ProtocolConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSNetworkWatcherProtocolConfiguration>] -ResourceGroupName
<System.String> -SourceId <System.String> [-SourcePort
    <System.Int32>] [<CommonParameters>]

```

DESCRIPTION

The Test-AzNetworkWatcherConnectivity cmdlet returns connectivity information for a specified source VM and a destination. If connectivity between the source and destination cannot be established, the cmdlet returns details about the issue.

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

-DestinationAddress <System.String>

The IP address or URI the resource to which a connection attempt will be made.

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

-DestinationId <System.String>

The ID of the resource to which a connection attempt will be made.

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

-DestinationPort <System.Int32>

Port on which check connectivity will be performed.

Required? false
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 (ByPropertyName)

Accept wildcard characters? false

-ProtocolConfiguration <Microsoft.Azure.Commands.Network.Models.PSNetworkWatcherProtocolConfiguration>

Protocol configuration on which check connectivity will be performed.

Required? false

Position? named
Default value None
Accept pipeline input? False
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

-SourceId <System.String>

The ID of the resource from which a connectivity check will be initiated.

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

-SourcePort <System.Int32>

The source port from which a connectivity check will be performed.

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

Microsoft.Azure.Commands.Network.Models.PSNetworkWatcher

System.String

System.Int32

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSConnectivityInformation

NOTES

Keywords: azure, azurerm, arm, resource, connectivity, management, manager, network, networking, network watcher

Example 1: Test Network Watcher Connectivity from a VM to a website

```
Test-AzNetworkWatcherConnectivity -NetworkWatcherName NetworkWatcher -ResourceGroupName  
NetworkWatcherRG -SourceId
```

```
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/ContosoRG/providers/Microsoft.Compute/virtual  
Machines/MultiTierApp0" -DestinationAddress
```

"bing.com" -DestinationPort 80

ConnectionStatus : Reachable

AvgLatencyInMs : 4

MinLatencyInMs : 2

MaxLatencyInMs : 15

ProbesSent : 15

ProbesFailed : 0

Hops : [

{

"Type": "Source",

"Id": "f8cff464-e13f-457f-a09e-4dcd53d38a85",

"Address": "10.1.1.4",

"ResourceId":

"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/ContosoRG/provi

iders/Microsoft.Network/networkInterfaces/appNic0/ipConfigurations/ipconfig1",

"NextHopIds": [

"1034b1bf-0b1b-4f0a-93b2-900477f45485"

],

"Issues": []

},

{

"Type": "Internet",

"Id": "1034b1bf-0b1b-4f0a-93b2-900477f45485",

"Address": "13.107.21.200",

"ResourceId": "Internet",

"NextHopIds": [],

"Issues": []

}

]

In this example we test connectivity from a VM in Azure to www.bing.com.

----- Example 2 -----

```
Test-AzNetworkWatcherConnectivity -DestinationAddress 'bing.com' -DestinationPort 80 -NetworkWatcher
<PSNetworkWatcher> -SourceId

'/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/ContosoRG/providers/Microsoft.Compute/
virtualMachines/MultiTierApp0'
```

RELATED LINKS

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

New-AzNetworkWatcher

Get-AzNetworkWatcher

Remove-AzNetworkWatcher

Get-AzNetworkWatcherNextHop

Get-AzNetworkWatcherSecurityGroupView

Get-AzNetworkWatcherTopology

Get-AzNetworkWatcherTroubleshootingResult

New-AzNetworkWatcherPacketCapture

New-AzPacketCaptureFilterConfig

Get-AzNetworkWatcherPacketCapture

Remove-AzNetworkWatcherPacketCapture

Stop-AzNetworkWatcherPacketCapture

Start-AzNetworkWatcherResourceTroubleshooting

New-AzNetworkWatcherProtocolConfiguration

Test-AzNetworkWatcherIPFlow

Test-AzNetworkWatcherConnectivity

Stop-AzNetworkWatcherConnectionMonitor

Start-AzNetworkWatcherConnectionMonitor

Set-AzNetworkWatcherConnectionMonitor
Set-AzNetworkWatcherConfigFlowLog
Remove-AzNetworkWatcherConnectionMonitor
New-AzNetworkWatcherConnectionMonitor
Get-AzNetworkWatcherReachabilityReport
Get-AzNetworkWatcherReachabilityProvidersList
Get-AzNetworkWatcherFlowLogStatus
Get-AzNetworkWatcherConnectionMonitorReport
Get-AzNetworkWatcherConnectionMonitor