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

PS:\>Get-HELP Get-AzNetworkWatcherTopology -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-AzNetworkWatcherTopology

SYNOPSIS

Gets a network level view of resources and their relationships in a resource group.

SYNTAX

Get-AzNetworkWatcherTopology

[-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

-Location

<System.String>

-TargetResourceGroupName <System.String> [<CommonParameters>]

Get-AzNetworkWatcherTopology

[-DefaultProfile

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

<Microsoft.Azure.Commands.Network.Models.PSNetworkWatcher> -TargetResourceGroupName <System.String>

[<CommonParameters>]

Get-AzNetworkWatcherTopology

[-DefaultProfile

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

<System.String> -ResourceGroupName <System.String> -TargetResourceGroupName <System.String>

[<CommonParameters>]

DESCRIPTION

The Get-AzNetworkWatcherTopology cmdlet a network level view of resources and their relationships in a resource group. Note: If resources from multiple regions

reside in the resource group, only the resources in the same region as the Network Watcher will be included in the JSON output.

PARAMETERS

-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

-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

-TargetResourceGroupName <System.String>

The resource group name.

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.PSTopology

NOTES

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

view

----- Example 1: Get an Azure Topology -----

```
$networkWatcher = Get-AzNetworkWatcher -Name NetworkWatcher_westcentralus -ResourceGroupName NetworkWatcherRG
```

```
Get-AzNetworkWatcherTopology -NetworkWatcher $networkWatcher -TargetResourceGroupName testresourcegroup
```

```
Id : e33d80cf-4f76-4b8f-b51c-5bb8eba80103
```

```
CreatedDateTime : 0/00/0000 9:21:51 PM
```

```
LastModified : 0/00/0000 4:53:29 AM
```

```
TopologyResources : [
```

```
{
```

```
    "Name": "testresourcegroup-vnet",
```

```
    "Id":
```

```
    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/virtualNetworks/testresourcegroup-vnet",
```

```
    "Location": "westcentralus",
```

```
    "TopologyAssociations": [
```

```
{
```

```
        "Name": "default",
```

```
        "ResourceId":
```

```
        "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/virtualNetw
```

```
orks/testresourcegroup-vnet/subnets/default",
```

```
        "AssociationType": "Contains"
```

```
}
```

```
]
```

```
},
```

```
{
```

```
    "Name": "default",
```

```
    "Id":
```

```
    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/virtualNetworks/testres
```

```
ourcegroup-vnet/subnets/default",
```

```
    "Location": "westcentralus",
```

```
    "TopologyAssociations": []
```

```
,
```

```

{
  "Name": "VM0",
  "Id": "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Compute/virtualMachines/VM0",
  "TopologyAssociations": [
    {
      "Name": "vm0131",
      "ResourceId": "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/networkInterfaces/vm0131",
      "AssociationType": "Contains"
    }
  ],
  },
  {
    "Name": "vm0131",
    "Id": "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/networkInterfaces/vm0131",
    "Location": "westcentralus",
    "TopologyAssociations": [
      {
        "Name": "VM0",
        "ResourceId": "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Compute/virtualMachines/VM0",
        "AssociationType": "Associated"
      },
      {

```

```

    "Name": "VM0-nsg",
    "ResourceId": 

    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
networkSecurityGroups/VM0-nsg",
        "AssociationType": "Associated"
    },
    {
        "Name": "default",
        "ResourceId": 

        "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
virtualNetw
orks/testresourcegroup-vnet/subnets/default",
        "AssociationType": "Associated"
    },
    {
        "Name": "VM0-ip",
        "ResourceId": 

        "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
publicIPAddresses/VM0-ip",
        "AssociationType": "Associated"
    }
],
},
{
    "Name": "VM0-nsg",
    "Id": 

    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
networkSecurityGroups/VM0-nsg",
        "Location": "westcentralus",
        "TopologyAssociations": [

```

```

{
    "Name": "default-allow-rdp",
    "ResourceId": "",
    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
networkSecu
    rityGroups/VM0-nsg/securityRules/default-allow-rdp",
    "AssociationType": "Contains"
}
],
},
{
    "Name": "default-allow-rdp",
    "Id": "",
    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
networkSecurityGroups/V
    M0-nsg/securityRules/default-allow-rdp",
    "Location": "westcentralus",
    "TopologyAssociations": []
},
{
    "Name": "VM0-ip",
    "Id": "",
    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
publicIPAddresses/VM0-ip",
    "Location": "westcentralus",
    "TopologyAssociations": [
    {
        "Name": "vm0131",
        "ResourceId": ""
    }
    "/subscriptions/bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb/resourceGroups/testresourcegroup/providers/Microsoft.Network/
networkInterfaces/vm0131",

```

```
        "AssociationType": "Associated"  
    }  
]  
}  
]
```

In this example we run the Get-AzNetworkWatcherTopology cmdlet on a resource group that contains a VM, Nic, NSG, and public IP.

RELATED LINKS

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

[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