



Windows PowerShell Get-Help on Cmdlet 'New-AzVpnConnection'

PS: \>Get-HELP New-AzVpnConnection -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

New-AzVpnConnection

SYNOPSIS

Creates a IPsec connection that connects a VpnGateway to a remote customer branch represented in RM as a VpnSite.

SYNTAX

```
New-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp]
[-EnableInternetSecurity] [-IpSecPolicy
    <Microsoft.Azure.Commands.Network.Models.PSIPsecPolicy>] -Name <System.String> -ParentObject
    <Microsoft.Azure.Commands.Network.Models.PSVpnGateway>
    [-RoutingConfiguration <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey
    <System.Security.SecureString>] [-TrafficSelectorPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureProfileData]
```

```
[-UsePolicyBasedTrafficSelectors] [-VpnConnectionProtocolType {IKEv1 |
    IKEv2}] [-VpnSite <Microsoft.Azure.Commands.Network.Models.PSVpnSite> [-VpnSiteLinkConnection
<Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>]
[-Confirm] [-WhatIf] [<CommonParameters>]
```

```
New-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp]
[-EnableInternetSecurity] [-IpSecPolicy
<Microsoft.Azure.Commands.Network.Models.PSIPsecPolicy>] [-Name <System.String> -ParentObject
<Microsoft.Azure.Commands.Network.Models.PSVpnGateway>
[-RoutingConfiguration <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey
<System.Security.SecureString>] [-TrafficSelectorPolicy
<Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
[-UsePolicyBasedTrafficSelectors] [-VpnConnectionProtocolType {IKEv1 |
    IKEv2}] [-VpnSiteId <System.String> [-VpnSiteLinkConnection
<Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
New-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp]
[-EnableInternetSecurity] [-IpSecPolicy
<Microsoft.Azure.Commands.Network.Models.PSIPsecPolicy>] [-Name <System.String> -ParentResourceId
<System.String> [-RoutingConfiguration
<Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey <System.Security.SecureString>]
[-TrafficSelectorPolicy
<Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
[-UsePolicyBasedTrafficSelectors] [-VpnConnectionProtocolType {IKEv1 |
    IKEv2}] [-VpnSite <Microsoft.Azure.Commands.Network.Models.PSVpnSite> [-VpnSiteLinkConnection
<Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>]
[-Confirm] [-WhatIf] [<CommonParameters>]
```

```
New-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp]
```

```

[-EnableInternetSecurity] [-IpSecPolicy
    <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy>] -Name <System.String> -ParentResourceId
<System.String> [-RoutingConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey <System.Security.SecureString>]
[-TrafficSelectorPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
[-UsePolicyBasedTrafficSelectors] [-VpnConnectionProtocolType {IKEv1 |
    IKEv2}] -VpnSiteId <System.String> [-VpnSiteLinkConnection
    <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>] [-Confirm] [-WhatIf]
[<CommonParameters>]

```

```

New-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp]
[-EnableInternetSecurity] [-IpSecPolicy
    <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy>] -Name <System.String> -ParentResourceName
<System.String> -ResourceGroupName <System.String>
    [-RoutingConfiguration <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey
    <System.Security.SecureString>] [-TrafficSelectorPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
[-UsePolicyBasedTrafficSelectors] [-VpnConnectionProtocolType {IKEv1 |
    IKEv2}] -VpnSite <Microsoft.Azure.Commands.Network.Models.PSVpnSite> [-VpnSiteLinkConnection
    <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>]
[-Confirm] [-WhatIf] [<CommonParameters>]

```

```

New-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp]
[-EnableInternetSecurity] [-IpSecPolicy
    <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy>] -Name <System.String> -ParentResourceName
<System.String> -ResourceGroupName <System.String>
    [-RoutingConfiguration <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey
    <System.Security.SecureString>] [-TrafficSelectorPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
[-UsePolicyBasedTrafficSelectors] [-VpnConnectionProtocolType {IKEv1 |
    IKEv2}] -VpnSite <Microsoft.Azure.Commands.Network.Models.PSVpnSite> [-VpnSiteLinkConnection
    <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>]
[-Confirm] [-WhatIf] [<CommonParameters>]

```

IKEv2}}

-VpnSiteId

<System.String>

[-VpnSiteLinkConnection

<Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>] [-Confirm] [-WhatIf]

[<CommonParameters>]

DESCRIPTION

Creates a IPSec connection that connects a VpnGateway to a remote customer branch represented in RM as a VpnSite.

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

-ConnectionBandwidthInMbps <System.UInt32>

The bandwidth that needs to be handled by this connection in mbps.

Required? false

Position? named

Default value None

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

-EnableBgp <System.Management.Automation.SwitchParameter>

Enable BGP for this connection

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-EnableInternetSecurity <System.Management.Automation.SwitchParameter>

Enable internet security for this connection

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-IpSecPolicy <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy>

The bandwidth that needs to be handled by this connection in mbps.

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

-Name <System.String>

The resource name.

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

-ParentObject <Microsoft.Azure.Commands.Network.Models.PSVpnGateway>

The parent VpnGateway for this connection.

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

-ParentResourceId <System.String>

The resource id of the parent VpnGateway for this connection.

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

-ParentResourceName <System.String>

The resource group name.

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

-ResourceGroupName <System.String>

The resource group name.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-RoutingConfiguration <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>

Routing configuration for this connection

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SharedKey <System.Security.SecureString>

The shared key required to set this connection up.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-TrafficSelectorPolicy <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>

A list of Traffic Selector policies.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UseLocalAzureIpAddress <System.Management.Automation.SwitchParameter>

Use local azure ip address as source address while initiating connection.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-UsePolicyBasedTrafficSelectors <System.Management.Automation.SwitchParameter>

Use policy based traffic selectors for this connection.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-VpnConnectionProtocolType <System.String>

Gateway connection protocol:IKEv1/IKEv2

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VpnSite <Microsoft.Azure.Commands.Network.Models.PSVpnSite>

The remote vpn site to which this hub virtual network connection is connected.

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

-VpnSiteId <System.String>

The remote vpn site to which this hub virtual network connection is connected.

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

-VpnSiteLinkConnection <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>

The list of VpnSiteLinkConnections that this VpnConnection have.

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

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

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

Microsoft.Azure.Commands.Network.Models.PSVpnGateway

System.String

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSVpnConnection

NOTES

----- Example 1 -----

```
New-AzResourceGroup -Location "West US" -Name "testRG"

$virtualWan = New-AzVirtualWan -ResourceGroupName testRG -Name myVirtualWAN -Location "West US"

    $virtualHub = New-AzVirtualHub -VirtualWan $virtualWan -ResourceGroupName "testRG" -Name "westushub"
-AddressPrefix "10.0.0.1/24"

        New-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -VirtualHubId $virtualHub.Id
-VpnGatewayScaleUnit 2

$vpnGateway = Get-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw"

$vpnSiteAddressSpaces = New-Object string[] 2
$vpnSiteAddressSpaces[0] = "192.168.2.0/24"
$vpnSiteAddressSpaces[1] = "192.168.3.0/24"

$vpnSite = New-AzVpnSite -ResourceGroupName "testRG" -Name "testVpnSite" -Location "West US" -VirtualWan
$virtualWan -IpAddress "1.2.3.4" -AddressSpace

$vpnSiteAddressSpaces -DeviceModel "SomeDevice" -DeviceVendor "SomeDeviceVendor" -LinkSpeedInMbps "10"

        New-AzVpnConnection -ResourceGroupName $vpnGateway.ResourceGroupName -ParentResourceName
$vpnGateway.Name -Name "testConnection" -VpnSite $vpnSite

-ConnectionBandwidthInMbps 20

RemoteVpnSite      : Microsoft.Azure.Commands.Network.Models.PSResourceId
SharedKey           :
VpnConnectionProtocolType : IKEv2
ConnectionStatus    :
EgressBytesTransferred : 0
IngressBytesTransferred : 0
IpsecPolicies       : {}
ConnectionBandwidth : 20
EnableBgp           : False
UseLocalAzureIpAddress : False
ProvisioningState    : testConnection
Name                : ps9709
```

Etag : W/"4580a2e2-2fab-4cff-88eb-92013a76b5a8"

Id :

/subscriptions/{subscriptionId}/resourceGroups/testRg/providers/Microsoft.Network/vpnGateways/testvpngw/vpnConnections/testConnection

RoutingConfiguration : {

"AssociatedRouteTable": {

"Id":

/subscriptions/{subscriptionId}/resourceGroups/testRg/providers/Microsoft.Network/virtualHubs/westushub/hubRouteTables/defaultRouteTable"

}

"PropagatedRouteTables": {

"Labels": [],

"Ids": [

{

"Id":

/subscriptions/{subscriptionId}/resourceGroups/testRg/providers/Microsoft.Network/virtualHubs/westushub/hubRouteTables/defaultRouteTable"

}

]

},

"VnetRoutes": {

"StaticRoutes": []

}

}

The above will create a resource group, Virtual WAN, Virtual Network, Virtual Hub and a VpnSite in West US in "testRG" resource group in Azure. A VPN gateway will be created thereafter in the Virtual Hub with 2 scale units.

Once the gateway has been created, it is connected to the VpnSite using the New-AzVpnConnection command.

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

```
New-AzResourceGroup -Location "West US" -Name "testRG"

$virtualWan = New-AzVirtualWan -ResourceGroupName testRG -Name myVirtualWAN -Location "West US"

$virtualHub = New-AzVirtualHub -VirtualWan $virtualWan -ResourceGroupName "testRG" -Name "westushub"
-AddressPrefix "10.0.0.1/24"

New-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -VirtualHubId $virtualHub.Id
-VpnGatewayScaleUnit 2

$vpnGateway = Get-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw"

$vpnSiteAddressSpaces = New-Object string[] 2
$vpnSiteAddressSpaces[0] = "192.168.2.0/24"
$vpnSiteAddressSpaces[1] = "192.168.3.0/24"

$vpnSiteLink1 = New-AzVpnSiteLink -Name "testVpnSiteLink1" -IpAddress "15.25.35.45" -LinkProviderName
"SomeTelecomProvider" -LinkSpeedInMbps "10"

$vpnSiteLink2 = New-AzVpnSiteLink -Name "testVpnSiteLink2" -IpAddress "15.25.35.55" -LinkProviderName
"SomeTelecomProvider2" -LinkSpeedInMbps "100"

$vpnSite = New-AzVpnSite -ResourceGroupName "testRG" -Name "testVpnSite" -Location "West US" -VirtualWan
$virtualWan -AddressSpace $vpnSiteAddressSpaces -DeviceModel
"SomeDevice" -DeviceVendor "SomeDeviceVendor" -VpnSiteLink @($vpnSiteLink1, $vpnSiteLink2)

$vpnSiteLinkConnection1 = New-AzVpnSiteLinkConnection -Name "testLinkConnection1" -VpnSiteLink
$vpnSite.VpnSiteLinks[0] -ConnectionBandwidth 100

$vpnSiteLinkConnection2 = New-AzVpnSiteLinkConnection -Name "testLinkConnection2" -VpnSiteLink
$vpnSite.VpnSiteLinks[1] -ConnectionBandwidth 10

New-AzVpnConnection -ResourceGroupName $vpnGateway.ResourceGroupName -ParentResourceName
$vpnGateway.Name -Name "testConnection" -VpnSite $vpnSite
-VpnSiteLinkConnection @($vpnSiteLinkConnection1, $vpnSiteLinkConnection2)
```

The above will create a resource group, Virtual WAN, Virtual Network, Virtual Hub and a VpnSite with 1 VpnSiteLinks in West US in "testRG" resource group in Azure. A

VPN gateway will be created thereafter in the Virtual Hub. Once the gateway has been created, it is connected to the VpnSite using the New-AzVpnConnection command

with 1 VpnSiteLinkConnections to the VpnSiteLink of the VpnSite.

RELATED LINKS

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

Get-AzVpnConnection

Remove-AzVpnConnection

Update-AzVpnConnection

New-AzRoutingConfiguration