



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

PS:\>Get-HELP Update-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

Update-AzVpnConnection

SYNOPSIS

Updates a VPN connection.

SYNTAX

```
Update-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp
<System.Nullable`1[System.Boolean]>] [-EnableInternetSecurity
    <System.Nullable`1[System.Boolean]>] -InputObject <Microsoft.Azure.Commands.Network.Models.PSVpnConnection>
[-IpSecPolicy
    <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy>] [-RoutingConfiguration
<Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey
    <System.Security.SecureString>] [-TrafficSeparationPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSeparationPolicy>]
```

```

<Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress
    <System.Nullable`1[System.Boolean]>] [-UsePolicyBasedTrafficSelectors <System.Nullable`1[System.Boolean]>]
[-VpnLinkConnectionMode <System.String>]
    [-VpnSiteLinkConnection <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>] [-Confirm] [-WhatIf]
[<CommonParameters>]

```

```

Update-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp
<System.Nullable`1[System.Boolean]>] [-EnableInternetSecurity
    <System.Nullable`1[System.Boolean]>] [-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
    <System.Nullable`1[System.Boolean]>] [-UsePolicyBasedTrafficSelectors <System.Nullable`1[System.Boolean]>]
[-VpnLinkConnectionMode <System.String>]
    [-VpnSiteLinkConnection <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>] [-Confirm] [-WhatIf]
[<CommonParameters>]

```

```

Update-AzVpnConnection [-AsJob] [-ConnectionBandwidthInMbps <System.UInt32>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableBgp
<System.Nullable`1[System.Boolean]>] [-EnableInternetSecurity
    <System.Nullable`1[System.Boolean]>] [-IpSecPolicy <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy>]
-ResourceId <System.String> [-RoutingConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-SharedKey <System.Security.SecureString>]
[-TrafficSelectorPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress
<System.Nullable`1[System.Boolean]>] [-UsePolicyBasedTrafficSelectors
    <System.Nullable`1[System.Boolean]>] [-VpnLinkConnectionMode <System.String>] [-VpnSiteLinkConnection
    <Microsoft.Azure.Commands.Network.Models.PSVpnSiteLinkConnection[]>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

The Update-AzVpnConnection cmdlet updates a VPN connection.

VPN connection creates an IPsec connection that connects a VPN gateway to a remote customer branch represented in Azure as a VPN site.

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.Nullable`1[System.Boolean]>

Enable BGP for this connection

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EnableInternetSecurity <System.Nullable`1[System.Boolean]>

Enable internet security for this connection

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <Microsoft.Azure.Commands.Network.Models.PSVpnConnection>

The VpnConnection object to update.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

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

-ParentResourceName <System.String>

The parent resource 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

-ResourceId <System.String>

The resource id of the VpnConnection object to delete.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
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.Nullable`1[System.Boolean]>

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

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UsePolicyBasedTrafficSelectors <System.Nullable`1[System.Boolean]>

Use policy based traffic selectors for this connection.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VpnLinkConnectionMode <System.String>

The connection mode for all VpnSiteLinkConnections in this VpnConnection

Required? false

Position? named

Default value Default

Accept pipeline input? False

Accept wildcard characters? false

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

The list of VpnSiteLinkConnections that this VpnConnection needs to 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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

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"

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

$ipsecPolicy = New-AzIpsecPolicy -SALifeTimeSeconds 1000 -SADDataSizeKilobytes 2000 -IpsecEncryption
"GCMAES256" -IpsecIntegrity "GCMAES256" -IkeEncryption "AES256"
-IkeIntegrity "SHA256" -DhGroup "DHGroup14" -PfsGroup "PFS2048"
```

Update-AzVpnConnection -InputObject \$vpnConnection -IpSecPolicy \$ipsecPolicy

RemoteVpnSite : Microsoft.Azure.Commands.Network.Models.PSResourceId

SharedKey :

VpnConnectionProtocolType : IKEv2

ConnectionStatus :

EgressBytesTransferred : 0

IngressBytesTransferred : 0

IpsecPolicies : {Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy}

ConnectionBandwidth : 20

EnableBgp : False

UseLocalAzureIpAddress : False

ProvisioningState : testConnection

Name : ps9709

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

Id :

/subscriptions/{subscriptionId}/resourceGroups/ps9361/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.

The connection is then updated to have a new IpSecPolicy by using the Set-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"

$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"

$vpnConnection = New-AzVpnConnection -ResourceGroupName $vpnGateway.ResourceGroupName

```

```

-ParentResourceName $vpnGateway.Name -Name "testConnection" -VpnSite $vpnSite

$Secure_String_Pwd = Read-Host -AsSecureString

Update-AzVpnConnection -InputObject $vpnConnection -SharedKey $Secure_String_Pwd


RemoteVpnSite      : Microsoft.Azure.Commands.Network.Models.PSResourceId
SharedKey           :
VpnConnectionProtocolType : IKEv2
ConnectionStatus    :
EgressBytesTransferred : 0
IngressBytesTransferred : 0
IpsecPolicies       : {Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy}
ConnectionBandwidth : 20
EnableBgp           : False
UseLocalAzureIpAddress : False
ProvisioningState    : testConnection
Name                : ps9709
Etag                : W/"4580a2e2-2fab-4cff-88eb-92013a76b5a8"

Id :

/subscriptions/{subscriptionId}/resourceGroups/ps9361/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.

The connection is then updated to have a new shared key using the secure string construct.

RELATED LINKS

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

Get-AzVpnConnection

New-AzVpnConnection

Remove-AzVpnConnection

New-AzRoutingConfiguration