



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

PS: \>Get-HELP New-AzExpressRouteConnection -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-AzExpressRouteConnection

SYNOPSIS

Creates an ExpressRoute connection that connects an ExpressRoute gateway to an on premise ExpressRoute circuit

SYNTAX

```
New-AzExpressRouteConnection [-AsJob] [-AuthorizationKey <System.String>] [-DefaultProfile  
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]  
[-EnableInternetSecurity] -ExpressRouteCircuitPeeringId <System.String>  
    -ExpressRouteGatewayName <System.String> -Name <System.String> -ResourceGroupName <System.String>  
[-RoutingConfiguration  
    <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-RoutingWeight <System.UInt32>] [-Confirm]  
[-WhatIf] [<CommonParameters>]
```

```
New-AzExpressRouteConnection [-AsJob] [-AuthorizationKey <System.String>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableInternetSecurity] -ExpressRouteCircuitPeeringId <System.String>
    -ExpressRouteGatewayObject <Microsoft.Azure.Commands.Network.Models.PSExpressRouteGateway> -Name
<System.String> [-RoutingConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-RoutingWeight <System.UInt32>] [-Confirm]
[-WhatIf] [<CommonParameters>]
```

```
New-AzExpressRouteConnection [-AsJob] [-AuthorizationKey <System.String>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableInternetSecurity] -ExpressRouteCircuitPeeringId <System.String>
    -Name <System.String> -ParentResourceId <System.String> [-RoutingConfiguration
<Microsoft.Azure.Commands.Network.Models.PSRoutingConfiguration>] [-RoutingWeight
    <System.UInt32>] [-Confirm] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

Creates an ExpressRoute connection between an on-premise ExpressRoute circuit BGP peering to the ExpressRoute gateway inside a Virtual hub.

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

-AuthorizationKey <System.String>

A key obtained from the ExpressRoute circuit owner to be able to create a connection with a gateway in a different

subscription.

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

-EnableInternetSecurity <System.Management.Automation.SwitchParameter>

Enable internet security for this ExpressRoute Gateway connection

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

-ExpressRouteCircuitPeeringId <System.String>

The resource id of the Express Route Circuit Peering to which this Express Route gateway connection is to be created to.

Required?	true
Position?	named
Default value	None

Accept pipeline input? False

Accept wildcard characters? false

-ExpressRouteGatewayName <System.String>

The resource group name.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ExpressRouteGatewayObject <Microsoft.Azure.Commands.Network.Models.PSExpressRouteGateway>

The parent ExpressRouteGateway for this connection.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

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

-ParentResourceId <System.String>

The resource id of the parent ExpressRouteGateway for this connection.

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

-RoutingWeight <System.UInt32>

The weight for packet routing that needs to be assigned to this connection.

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

Microsoft.Azure.Commands.Network.Models.PSExpressRouteGateway

System.String

OUTPUTS

NOTES

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

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

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

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

New-AzExpressRouteGateway -ResourceGroupName "testRG" -Name "testExpressRoutegw" -VirtualHubId
$virtualHub.Id -MinScaleUnits 2

$ExpressRouteGateway = Get-AzExpressRouteGateway -ResourceGroupName "testRG" -Name "testExpressRoutegw"

$ExpressRouteCircuit = New-AzExpressRouteCircuit -ResourceGroupName "testRG" -Name "testExpressRouteCircuit"
-Location "West Central US" -SkuTier Premium -SkuFamily
MeteredData -ServiceProviderName "Equinix" -PeeringLocation "Silicon Valley" -BandwidthInMbps 200

Add-AzExpressRouteCircuitPeeringConfig -Name "AzurePrivatePeering" -ExpressRouteCircuit $ExpressRouteCircuit
-PeeringType AzurePrivatePeering -PeerASN 100

-PrimaryPeerAddressPrefix "123.0.0.0/30" -SecondaryPeerAddressPrefix "123.0.0.4/30" -VlanId 300

$ExpressRouteCircuit = Set-AzExpressRouteCircuit -ExpressRouteCircuit $ExpressRouteCircuit

$ExpressRouteCircuitPeeringId = $ExpressRouteCircuit.Peerings[0].Id

New-AzExpressRouteConnection -ResourceGroupName $ExpressRouteGateway.ResourceGroupName
-ExpressRouteGatewayName $ExpressRouteGateway.Name -Name "testConnection"

-ExpressRouteCircuitPeeringId $ExpressRouteCircuitPeeringId -RoutingWeight 20

ExpressRouteCircuitPeeringId : Microsoft.Azure.Commands.Network.Models.PSResourceId
AuthorizationKey :
RoutingWeight : 20
```

ProvisioningState : Succeeded
Name : testConnection
Etag : W/"4580a2e2-2fab-4cff-88eb-92013a76b5a8"
Id :

/subscriptions/{subscriptionId}/resourceGroups/ps9361/providers/Microsoft.Network/ExpressRouteGateways/testExpressRouteGateway/expressRouteConnections/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, Express Route gateway and an ExpressRoute circuit with private peering in West

Central US in "testRG" resource group in Azure. Once the gateway has been created, it is connected to the

ExpressRoute Circuit Peering using the
New-AzExpressRouteConnection command.

RELATED LINKS

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

New-AzRoutingConfiguration