



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

PS:\>Get-HELP Get-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

Get-AzExpressRouteConnection

SYNOPSIS

Gets a ExpressRoute connection by name or lists all ExpressRoute connections connected to a ExpressRouteGateway.

SYNTAX

```

Get-AzExpressRouteConnection [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-ExpressRouteGatewayName
<System.String> [-Name <System.String>] -ResourceGroupName <System.String> [<CommonParameters>]
```

```

Get-AzExpressRouteConnection [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-ExpressRouteGatewayObject
```

```

        <Microsoft.Azure.Commands.Network.Models.PSExpressRouteGateway> [-Name <System.String>]
[<CommonParameters>]

Get-AzExpressRouteConnection [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Name
<System.String>]
-ParentResourceId <System.String> [<CommonParameters>]

```

DESCRIPTION

Gets an ExpressRoute connection by name or lists all ExpressRoute connections connected to a ExpressRouteGateway.

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

-ExpressRouteGatewayName <System.String>

The parent resource 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? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? true

-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

<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

System.String

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSExpressRouteConnection

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

```

```

ExpressRouteCircuitPeeringId      : Microsoft.Azure.Commands.Network.Models.PSResourceId
AuthorizationKey                   :
RoutingWeight                      : 20
ProvisioningState                  : Succeeded
Name                               : testConnection
Etag                               : W/"000000000-0000-0000-0000-000000000000"
Id                                 :

```

```

/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/ExpressRouteGateways/testExpressRo
utegw/expressRouteConnections/testConnection

```

```

EnableInternetSecurity             : False
RoutingConfiguration               : {
    "AssociatedRouteTable": {
        "Id":

```

```

"/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub/hubRouteTable
s/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 ExpressRouteSite in West US in "testRG" resource group in Azure. A

ExpressRoute gateway will be created thereafter in the Virtual Hub with 2 scale units.

Once the gateway has been created, it is connected to the on premise ExpressRoute circuit using the New-AzExpressRouteConnection command.

Then it gets the connection using the connection name.

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

```

Get-AzExpressRouteConnection -ResourceGroupName ps9361 -ExpressRouteGatewayName testExpressRoutegw
-Name test*

```

```

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

```

Name : testConnection1
Etag : W/"00000000-0000-0000-0000-000000000000"
Id :

/subscriptions/{subscriptionId}/resourceGroups/ps9361/providers/Microsoft.Network/ExpressRouteGateways/testExpressRouteGateway/expressRouteConnections/testConnection1

EnableInternetSecurity : False
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": []
 }
}

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

ProvisioningState : Succeeded
Name : testConnection2
Etag : W/"00000000-0000-0000-0000-000000000000"
Id :

/subscriptions/{subscriptionId}/resourceGroups/ps9361/providers/Microsoft.Network/ExpressRouteGateways/testExpressRouteGateway/expressRouteConnections/testConnection2

EnableInternetSecurity : False
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": []
 }
}

This command will get all Connections in ExpressRoute "testExpressRouteGateway" that start with "test"

RELATED LINKS

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