



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

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

SYNOPSIS

Creates an Azure VirtualHub resource.

SYNTAX

```
New-AzVirtualHub -AddressPrefix <System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-HubRoutingPreference {ExpressRoute | VpnGateway | ASPath}] [-HubVnetConnection
<Microsoft.Azure.Commands.Network.Models.PSHubVirtualNetworkConnection[]>] -Location
<System.String> -Name <System.String> [-PreferredRoutingGateway {ExpressRoute | VpnGateway}]
-ResourceGroupName <System.String> [-RouteTable
<Microsoft.Azure.Commands.Network.Models.PSVirtualHubRouteTable>] [-Sku <System.String>] [-Tag
<System.Collections.Hashtable>] [-VirtualRouterAsn <System.UInt32>]
```

<Microsoft.Azure.Commands.Network.Models.PSVirtualRouterAutoScaleConfiguration>] -VirtualWan

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

New-AzVirtualHub -AddressPrefix <System.String> [-AsJob] [-DefaultProfile

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

[-HubRoutingPreference {ExpressRoute | VpnGateway | ASPath}] [-HubVnetConnection

<Microsoft.Azure.Commands.Network.Models.PSHubVirtualNetworkConnection[]>] -Location

<System.String> -Name <System.String> [-PreferredRoutingGateway {ExpressRoute | VpnGateway}]

-ResourceGroupName <System.String> [-RouteTable

<Microsoft.Azure.Commands.Network.Models.PSVirtualHubRouteTable>] [-Sku <System.String>] [-Tag

<System.Collections.Hashtable>] [-VirtualRouterAsn <System.UInt32>]

[-VirtualRouterAutoScaleConfiguration

<Microsoft.Azure.Commands.Network.Models.PSVirtualRouterAutoScaleConfiguration>] -VirtualWanId <System.String>

[-Confirm]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

Creates an Azure VirtualHub resource.

PARAMETERS

-AddressPrefix <System.String>

The address space string for this virtual hub.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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

-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

-HubRoutingPreference <System.String>

Virtual Hub Routing Preference to route traffic

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

-HubVnetConnection <Microsoft.Azure.Commands.Network.Models.PSHubVirtualNetworkConnection[]>

The hub virtual network connections associated with this Virtual Hub.

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

Accept wildcard characters? false

-Location <System.String>

location.

Required? true

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

-PreferredRoutingGateway <System.String>

Preferred Routing Gateway to Route On-Prem traffic from VNET (Deprecated, please use HubRoutingPreference)

Required? false

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

-RouteTable <Microsoft.Azure.Commands.Network.Models.PSVirtualHubRouteTable>

The route table associated with this Virtual Hub.

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

-Sku <System.String>

The sku of the Virtual Hub.

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

-Tag <System.Collections.Hashtable>

A hashtable which represents resource tags.

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

-VirtualRouterAsn <System.UInt32>

The ASN of this virtual hub

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VirtualRouterAutoScaleConfiguration

<Microsoft.Azure.Commands.Network.Models.PSVirtualRouterAutoScaleConfiguration>

Autoscale configuration for the hub router

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VirtualWan <Microsoft.Azure.Commands.Network.Models.PSVirtualWan>

The virtual wan object this hub is linked to.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-VirtualWanId <System.String>

The id of virtual wan object this hub is linked to.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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.PSVirtualWan

System.String

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSVirtualHub

NOTES

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

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

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

New-AzVirtualHub -VirtualWan \$virtualWan -ResourceGroupName "testRG" -Name "westushub" -AddressPrefix
"10.0.1.0/24"

```
VirtualWan :  
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualWans/myVirtualWAN  
ResourceGroupName : testRG  
Name               : westushub  
Id                :  
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub  
AddressPrefix      : 10.0.1.0/24  
RouteTable         :  
VirtualNetworkConnections : {}  
RouteTables        : {}  
Location           : West US  
Sku                 : Standard  
PreferredRoutingGateway : ExpressRoute  
HubRoutingPreference : ExpressRoute
```


Type : Microsoft.Network/virtualHubs

ProvisioningState : Succeeded

The above will create a resource group "testRG", a Virtual WAN and a Virtual Hub in West US in that resource group in Azure. The virtual hub will have the address

space "10.0.1.0/24".

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

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

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

New-AzVirtualHub -VirtualWanId \$virtualWan.Id -ResourceGroupName "testRG" -Name "westushub" -AddressPrefix "10.0.1.0/24" -Location "West US"

```
VirtualWan :  
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualWans/myVirtualWAN  
ResourceGroupName : testRG  
Name : westushub  
Id :  
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub  
AddressPrefix : 10.0.1.0/24  
RouteTable :  
VirtualNetworkConnections : {}  
RouteTables : {}  
Location : West US  
Sku : Standard  
PreferredRoutingGateway : ExpressRoute  
HubRoutingPreference : ExpressRoute  
Type : Microsoft.Network/virtualHubs  
ProvisioningState : Succeeded
```

The above will create a resource group "testRG", a Virtual WAN and a Virtual Hub in West US in that resource group in

Azure. The virtual hub will have the address

space "10.0.1.0/24".

This example is similar to Example 1, but uses a resource Id to reference the Virtual WAN that is required to create the virtual Hub.

----- Example 3 -----

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

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

```
$route1 = New-AzVirtualHubRoute -AddressPrefix @("10.0.0.0/16", "11.0.0.0/16") -NextHopIpAddress "12.0.0.5"
```

```
$route2 = New-AzVirtualHubRoute -AddressPrefix @("13.0.0.0/16") -NextHopIpAddress "14.0.0.5"
```

```
$routeTable = New-AzVirtualHubRouteTable -Route @($route1, $route2)
```

```
New-AzVirtualHub -VirtualWanId $virtualWan.Id -ResourceGroupName "testRG" -Name "westushub" -AddressPrefix  
"10.0.1.0/24" -RouteTable $routeTable
```

```
VirtualWan                                                                    :  
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualWans/myVirtualWAN  
ResourceGroupName      : testRG  
Name                   : westushub  
Id                                                              :  
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub  
AddressPrefix          : 10.0.1.0/24  
RouteTable             : Microsoft.Azure.Commands.Network.Models.PSVirtualHubRouteTable  
VirtualNetworkConnections : {}  
RouteTables            : {}  
Location               : West US  
Sku                    : Standard  
PreferredRoutingGateway : ExpressRoute  
HubRoutingPreference   : ExpressRoute  
Type                   : Microsoft.Network/virtualHubs  
ProvisioningState       : Succeeded
```

The above will create a resource group "testRG", a Virtual WAN and a Virtual Hub in West US in that resource group in Azure. The virtual hub will have the address space "10.0.1.0/24" and a route table attached.

This example is similar to Example 2, but also attaches a route table to the virtual hub.

----- Example 4 -----

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

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

$autoscale = New-AzVirtualRouterAutoScaleConfiguration -MinCapacity 3

New-AzVirtualHub -VirtualWan $virtualWan -ResourceGroupName "testRG" -Name "westushub" -AddressPrefix
"10.0.1.0/24" -HubRoutingPreference "VpnGateway"

-VirtualRouterAutoScaleConfiguration $autoscale
```

```
VirtualWan                                     :
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualWans/myVirtualWAN

ResourceGroupName      : testRG
Name                   : westushub
Id                     :
/subscriptions/{subscriptionId}resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub

AddressPrefix          : 10.0.1.0/24
RouteTable              :
Location                : West US
Sku                     : Standard
HubRoutingPreference    : VpnGateway
VirtualNetworkConnections : {}
Location                : West US
Type                    : Microsoft.Network/virtualHubs
ProvisioningState       : Succeeded
```

The above will create a resource group "testRG", a Virtual WAN and a Virtual Hub in West US in that resource group in Azure. The virtual hub will have preferred routing gateway as VPNGateway and minimum capacity 3.

RELATED LINKS

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

Get-AzVirtualHub

Remove-AzVirtualHub

Update-AzVirtualHub