



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

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

SYNOPSIS

Create a route map to a VirtualHub.

SYNTAX

```

New-AzRouteMap [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Name
<System.String>]
[-ResourceGroupName <System.String>] [-RouteMapRule
<Microsoft.Azure.Commands.Network.Models.PSRouteMapRule[]>] [-VirtualHubName <System.String>] [-Confirm] [-WhatIf]

```

[<CommonParameters>]

```

New-AzRouteMap [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Name
<System.String>]
[-RouteMapRule <Microsoft.Azure.Commands.Network.Models.PSRouteMapRule[]>] [-VirtualHubObject
<Microsoft.Azure.Commands.Network.Models.PSVirtualHub>] [-Confirm]
[-WhatIf] [<CommonParameters>]

```

```

New-AzRouteMap [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Name
<System.String>]
[-RouteMapRule <Microsoft.Azure.Commands.Network.Models.PSRouteMapRule[]>] [-VirtualHubResourceId
<System.String>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

Create a route map to a VirtualHub.

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

-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

-Name <System.String>

The route map name.

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

-ResourceGroupName <System.String>

The resource group name.

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

-RouteMapRule <Microsoft.Azure.Commands.Network.Models.PSRouteMapRule[]>

List of route map rules in the route map.

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

-VirtualHubName <System.String>

The Virtual Hub name.

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

-VirtualHubObject <Microsoft.Azure.Commands.Network.Models.PSVirtualHub>

The Virtual Hub Object.

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

-VirtualHubResourceId <System.String>

The Virtual Hub Resource Id.

Required? false
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>).

INPUTS

Microsoft.Azure.Commands.Network.Models.PSVirtualHub

System.String

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSRouteMap

NOTES

----- Example 1 Create route map -----

```
New-AzVirtualWan -ResourceGroupName "testRg" -Name "testWan" -Location "westcentralus" -VirtualWanType
"Standard" -AllowVnetToVnetTraffic -AllowBranchToBranchTraffic
```

```
$virtualWan = Get-AzVirtualWan -ResourceGroupName "testRg" -Name "testWan"
```

```
New-AzVirtualHub -ResourceGroupName "testRg" -Name "testHub" -Location "westcentralus" -AddressPrefix
"10.0.0.0/16" -VirtualWan $virtualWan
```

```
$virtualHub = Get-AzVirtualHub -ResourceGroupName "testRg" -Name "testHub"
```

```
# creating new route map rules and a new route map resource and new routing configuration
```

```
$routeMapMatchCriterion1 = New-AzRouteMapRuleCriterion -MatchCondition "Contains" -RoutePrefix @"("10.0.0.0/16")
```

```
$routeMapActionParameter1 = New-AzRouteMapRuleActionParameter -AsPath @"("12345")
```

```
$routeMapAction1 = New-AzRouteMapRuleAction -Type "Add" -Parameter @($routeMapActionParameter1)
```

```
$routeMapRule1 = New-AzRouteMapRule -Name "rule1" -MatchCriteria @($routeMapMatchCriterion1)
-RouteMapRuleAction @($routeMapAction1) -NextStepIfMatched "Continue"
```

```
$routeMapMatchCriterion2 = New-AzRouteMapRuleCriterion -MatchCondition "Equals" -AsPath @"("12345")
```

```
$routeMapAction2 = New-AzRouteMapRuleAction -Type "Drop"
```

```
$routeMapRule2 = New-AzRouteMapRule -Name "rule2" -MatchCriteria @($routeMapMatchCriterion2)
-RouteMapRuleAction @($routeMapAction2) -NextStepIfMatched "Terminate"
```

```
New-AzRouteMap -ResourceGroupName "testRg" -VirtualHubName "testHub" -Name "testRouteMap" -RouteMapRule
@($routeMapRule1, $routeMapRule2)
```

```
Name : testRouteMap
```

```
Id :
```

```
/subscriptions/62364504-2406-418e-971c-05822ff72fad/resourceGroups/routemap0419/providers/Microsoft.Network/virtual
Hubs/westcentralus_hub1/routeMaps/testRouteMap
```

```
ProvisioningState : Succeeded
```

```
RouteMapRules : [
```

```

{
  "Name": "rule1",
  "MatchCriteria": [
    {
      "MatchCondition": "Contains",
      "RoutePrefix": [
        "10.0.0.0/16"
      ],
      "Community": [],
      "AsPath": []
    }
  ],
  "Actions": [
    {
      "Type": "Add",
      "Parameters": [
        {
          "RoutePrefix": [],
          "Community": [],
          "AsPath": [
            "12345"
          ]
        }
      ]
    }
  ],
  "NextStepIfMatched": "Continue"
},
{
  "Name": "rule2",
  "MatchCriteria": [
    {
      "MatchCondition": "Equals",

```

```

        "RoutePrefix": [],
        "Community": [],
        "AsPath": [
            "12345"
        ]
    }
],
    "Actions": [
        {
            "Type": "Drop",
            "Parameters": []
        }
    ],
    "NextStepIfMatched": "Terminate"
}
]

```

AssociatedInboundConnections : []

AssociatedOutboundConnections : []

----- Example 2 Apply route map to connections -----

```
$testRouteMap = Get-AzRouteMap -ResourceGroupName "testRg" -VirtualHubName "testHub" -Name "testRouteMap"
```

```
$rt1 = Get-AzVHubRouteTable -ResourceGroupName "testRg" -VirtualHubName "testHub" -Name "defaultRouteTable"
```

```
$rt2 = Get-AzVHubRouteTable -ResourceGroupName "testRg" -VirtualHubName "testHub" -Name "noneRouteTable"
```

```

    $testRoutingConfiguration = New-AzRoutingConfiguration -AssociatedRouteTable $rt1.Id -Label @("testLabel") -Id
    @($rt2.Id) -InboundRouteMap @($testRouteMap.Id)

```

creating virtual network and a virtual hub vnet connection resource

```
$frontendSubnet = New-AzVirtualNetworkSubnetConfig -Name frontendSubnet -AddressPrefix "10.2.1.0/24" Page 8/10
```

```

$backendSubnet = New-AzVirtualNetworkSubnetConfig -Name backendSubnet -AddressPrefix "10.2.2.0/24"

$remoteVirtualNetwork = New-AzVirtualNetwork -Name "MyVirtualNetwork" -ResourceGroupName "testRG" -Location
"westcentralus" -AddressPrefix "10.2.0.0/16" -Subnet
$frontendSubnet,$backendSubnet

New-AzVirtualHubVnetConnection -ResourceGroupName "testRG" -VirtualHubName "testHub" -Name
"testvnetconnection" -RemoteVirtualNetwork $remoteVirtualNetwork
-RoutingConfiguration $testRoutingConfiguration

Name : testvnetconnection
Id :

/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub/hubVirtualNetwo
rkConnections/testvnetconnection

RemoteVirtualNetwork :

/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/virtualNetworks/MyVirtualNetwork
EnableInternetSecurity : False
ProvisioningState : Succeeded
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/hubRouteTable
s/defaultRouteTable"
            }
        ]
    }
}

```

```

    ]
  },
  "VnetRoutes": {
    "StaticRoutes": []
  },
  "InboundRouteMap": {
    "Id":
"/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/virtualHubs/westushub/routeMaps/test
RouteMap"
  }
}

```

RELATED LINKS

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

Get-AzRouteMap

New-AzRouteMapRule

Update-AzRouteMap

Remove-AzRouteMap