



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

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

SYNOPSIS

Creates a network interface.

SYNTAX

```

New-AzNetworkInterface [-ApplicationGatewayBackendAddressPool
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>]
[-ApplicationSecurityGroup <Microsoft.Azure.Commands.Network.Models.PSApplicationSecurityGroup[]>] [-AsJob]
[-AuxiliaryMode {None | MaxConnections |
AcceleratedConnections | Floating}] [-AuxiliarySku {None | A1 | A2 | A4 | A8}] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableTcpStateTracking <System.String>] [-DnsServer <System.String[]>]
[-EdgeZone <System.String>] [-EnableAcceleratedNetworking] [-EnableIPForwarding] [-Force] [-InternalDnsNameLabel

```

```

<System.String>] [-IpConfigurationName
                                <System.String>] [-LoadBalancerBackendAddressPool
<Microsoft.Azure.Commands.Network.Models.PSBackendAddressPool[]>] [-LoadBalancerInboundNatRule
    <Microsoft.Azure.Commands.Network.Models.PSInboundNatRule[]>] -Location <System.String> -Name <System.String>
[-NetworkSecurityGroup
    <Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup>] [-PrivateIpAddress <System.String>]
[-PublicIpAddress
    <Microsoft.Azure.Commands.Network.Models.PSPublicIpAddress>] -ResourceGroupName <System.String> -Subnet
<Microsoft.Azure.Commands.Network.Models.PSSubnet> [-Tag
    <System.Collections.Hashtable>] [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzNetworkInterface [-ApplicationGatewayBackendAddressPoolId <System.String[]>] [-ApplicationSecurityGroupId
<System.String[]>] [-AsJob] [-AuxiliaryMode {None |
    MaxConnections | AcceleratedConnections | Floating}] [-AuxiliarySku {None | A1 | A2 | A4 | A8}] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableTcpStateTracking <System.String>] [-DnsServer <System.String[]>]
    [-EdgeZone <System.String>] [-EnableAcceleratedNetworking] [-EnableIPForwarding] [-Force] [-InternalDnsNameLabel
<System.String>] [-IpConfigurationName
    <System.String>] [-LoadBalancerBackendAddressPoolId <System.String[]>] [-LoadBalancerInboundNatRuleId
<System.String[]>] -Location <System.String> -Name
    <System.String>] [-NetworkSecurityGroupId <System.String>] [-PrivateIpAddress <System.String>] [-PublicIpAddressId
<System.String>] -ResourceGroupName <System.String>
    -SubnetId <System.String> [-Tag <System.Collections.Hashtable>] [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzNetworkInterface [-AsJob] [-AuxiliaryMode {None | MaxConnections | AcceleratedConnections | Floating}]
[-AuxiliarySku {None | A1 | A2 | A4 | A8}]
    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableTcpStateTracking <System.String>] [-DnsServer
    <System.String[]>] [-EdgeZone <System.String>] [-EnableAcceleratedNetworking] [-EnableIPForwarding] [-Force]
[-InternalDnsNameLabel <System.String>] -IpConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSNetworkInterfaceIPConfiguration[]> -Location <System.String> -Name
<System.String> -ResourceGroupName <System.String> [-Tag
    <System.Collections.Hashtable>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

```

New-AzNetworkInterface [-AsJob] [-AuxiliaryMode {None | MaxConnections | AcceleratedConnections | Floating}]
[-AuxiliarySku {None | A1 | A2 | A4 | A8}]
    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableTcpStateTracking <System.String>] [-DnsServer
    <System.String[]>] [-EdgeZone <System.String>] [-EnableAcceleratedNetworking] [-EnableIPForwarding] [-Force]
[-InternalDnsNameLabel <System.String>] -IpConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSNetworkInterfaceIPConfiguration[]> -Location <System.String> -Name
<System.String> [-NetworkSecurityGroup
    <Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup>] [-NetworkSecurityGroupId <System.String>]
-ResourceGroupName <System.String> [-Tag
    <System.Collections.Hashtable>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

The New-AzNetworkInterface cmdlet creates an Azure network interface.

PARAMETERS

```

-ApplicationGatewayBackendAddressPool
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>

```

Specifies an ApplicationGatewayBackendAddressPool object.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

```

-ApplicationGatewayBackendAddressPoolId <System.String[]>

```

Specifies the ID of a ApplicationGatewayBackendAddressPool object.

Required? false

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

-ApplicationSecurityGroup <Microsoft.Azure.Commands.Network.Models.PSApplicationSecurityGroup[]>

Specifies a collection of application security group references to which the network interface IP configuration should belong to.

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

-ApplicationSecurityGroupId <System.String[]>

Specifies a collection of application security group references to which the network interface IP configuration should belong to.

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

-AuxiliaryMode <System.String>

The auxiliary mode of the Network Interface

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AuxiliarySku <System.String>

The auxiliary sku of the Network Interface

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

-DisableTcpStateTracking <System.String>

Indicates whether to disable tcp state tracking.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DnsServer <System.String[]>

Specifies the DNS server for the network interface.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EdgeZone <System.String>

The edge zone of the network interface

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableAcceleratedNetworking <System.Management.Automation.SwitchParameter>

Enables accelerated networking.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnableIPForwarding <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet enables IP forwarding for the network interface. IP forwarding allows a virtual machine to

receive traffic addressed to other destinations.

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

-Force <System.Management.Automation.SwitchParameter>

Forces the creation of the network interface even if a network interface with the same name already exists.

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

-InternalDnsNameLabel <System.String>

Specifies the internal DNS name label for the new network interface.

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

-IpConfiguration <Microsoft.Azure.Commands.Network.Models.PSNetworkInterfaceIPConfiguration[]>

Specifies the IP configuration that this cmdlet uses for the network interface.

Required?	true
Position?	named
Default value	None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IpConfigurationName <System.String>

Specifies the name of an IP configuration.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-LoadBalancerBackendAddressPool <Microsoft.Azure.Commands.Network.Models.PSBackendAddressPool[]>

Specifies a BackendAddressPool object.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-LoadBalancerBackendAddressPoolId <System.String[]>

Specifies the ID of a BackendAddressPool object.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-LoadBalancerInboundNatRule <Microsoft.Azure.Commands.Network.Models.PSInboundNatRule[]>

Specifies an inbound NAT rule configuration for a load balancer.

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

-LoadBalancerInboundNatRuleId <System.String[]>

Specifies the ID of an inbound NAT rule configuration for a load balancer.

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

-Location <System.String>

Specifies the region for a network interface.

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

-Name <System.String>

Specifies the name of the network interface to create.

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

-NetworkSecurityGroup <Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup>

Specifies a NetworkSecurityGroup object.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-NetworkSecurityGroupId <System.String>

Specifies the ID of a network security group.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PrivateIpAddress <System.String>

Specifies a static IPv4 IP address to assign to this network interface.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PublicIpAddress <Microsoft.Azure.Commands.Network.Models.PSPublicIpAddress>

Specifies a PublicIpAddress object to assign to a network interface.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PublicIpAddressId <System.String>

Specifies the ID of a PublicIpAddress object to assign to a network interface.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceGroupName <System.String>

Specifies the name of a resource group that the network interface belongs to.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Subnet <Microsoft.Azure.Commands.Network.Models.PSSubnet>

Specifies a Subnet object. This cmdlet creates a network interface for the subnet that this parameter specifies.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SubnetId <System.String>

Specifies the ID of the subnet for which to create a network interface.

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

-Tag <System.Collections.Hashtable>

Key-value pairs in the form of a hash table. For example: @{key0="value0";key1=\$null;key2="value2"}

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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.String

Microsoft.Azure.Commands.Network.Models.PSNetworkInterfaceIPConfiguration[]

Microsoft.Azure.Commands.Network.Models.PSSubnet

Microsoft.Azure.Commands.Network.Models.PSPublicIpAddress

Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup

System.String[]

Microsoft.Azure.Commands.Network.Models.PSBackendAddressPool[]

Microsoft.Azure.Commands.Network.Models.PSInboundNatRule[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]

Microsoft.Azure.Commands.Network.Models.PSApplicationSecurityGroup[]

System.Collections.Hashtable

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSNetworkInterface

NOTES

----- Example 1: Create an Azure network interface -----

```
New-AzNetworkInterface -Name "NetworkInterface1" -ResourceGroupName "ResourceGroup1" -Location "centralus"
-SubnetId

"/subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/ResourceGroup1/providers/Microsoft.Network/virtua
lNetworks/VirtualNetwork1/subnets/Subnet1"

-lpConfigurationName "IPConfiguration1" -DnsServer "8.8.8.8", "8.8.4.4"
```

This command creates a network interface named NetworkInterface001 with a dynamically assigned private IP address from Subnet1 in the virtual network named

VirtualNetwork1. The command also assigns two DNS servers to the network interface. The IPConfiguration child resource will be created automatically using the name

IPConfiguration1.

Example 2: Create an Azure network interface using an IP configuration object

```
$Subnet = Get-AzVirtualNetwork -Name "VirtualNetwork1" -ResourceGroupName "ResourceGroup1"

$IPconfig = New-AzNetworkInterfaceIpConfig -Name "IPConfig1" -PrivateIpAddressVersion IPv4 -PrivateIpAddress
"10.0.1.10" -SubnetId $Subnet.Subnets[0].Id

New-AzNetworkInterface -Name "NetworkInterface1" -ResourceGroupName "ResourceGroup1" -Location "centralus"
-IpConfiguration $IPconfig
```

This example creates a new network interface using an IP configuration object. The IP configuration object specifies a static private IPv4 address. The first command

retrieves an existing specified virtual network used to assign the subnet in the second command. The second command creates a network interface IP configuration named

IPConfig1 and stores the configuration in the variable named \$IPconfig. The third command creates a network interface named NetworkInterface1 that uses the network

interface IP configuration stored in the variable named \$IPconfig.

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

```
New-AzNetworkInterface -Location 'West US' -Name 'NetworkInterface1' -PrivateIpAddress '10.0.1.10'
-ResourceGroupName 'ResourceGroup1' -SubnetId

'/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/ResourceGroup1/providers/Microsoft.Network/virtual
Networks/VirtualNetwork1/subnets/Subnet1'
```

RELATED LINKS

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

Get-AzNetworkInterface

Remove-AzNetworkInterface

Set-AzNetworkInterface