



Windows PowerShell Get-Help on Cmdlet 'Add-SqlAvailabilityGroupListenerStaticIp'

PS:\>Get-HELP Add-SqlAvailabilityGroupListenerStaticIp -Full

NAME

Add-SqlAvailabilityGroupListenerStaticIp

SYNOPSIS

Adds a static IP address to an availability group listener.

SYNTAX

```
Add-SqlAvailabilityGroupListenerStaticIp [-InputObject] <AvailabilityGroupListener[]> [-AccessToken <PSObject>]
[-Encrypt {Mandatory | Optional | Strict}]
[-HostNameInCertificate <String>] [-ProgressAction <ActionPreference>] [-Script] -StaticIp <String[]>
[-TrustServerCertificate] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
Add-SqlAvailabilityGroupListenerStaticIp [[-Path] <String[]>] [-AccessToken <PSObject>] [-Encrypt {Mandatory | Optional
| Strict}] [-HostNameInCertificate <String>]
[-ProgressAction <ActionPreference>] [-Script] -StaticIp <String[]> [-TrustServerCertificate] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

DESCRIPTION

The Add-SqlAvailabilityGroupListenerStaticIp cmdlet adds a static IP address to an existing availability group listener configuration. You can specify either an IPv4

address and subnet mask or an IPv6 address. Run this cmdlet on the server instance that hosts the primary replica.

> `Module requirements: version 21+ on PowerShell 5.1; version 22+ on PowerShell 7.x.`

PARAMETERS

-AccessToken <PSObject>

The access token used to authenticate to SQL Server, as an alternative to user/password or Windows Authentication.

This can be used, for example, to connect to `SQL Azure DB` and `SQL Azure Managed Instance` using a `Service Principal` or a `Managed Identity`.

The parameter to use can be either a string representing the token or a `PSAccessToken` object as returned by running `Get-AzAccessToken -ResourceUrl

<https://database.windows.net>.

> This parameter is new in v22 of the module.

Required?	false
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Position?	named
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Default value	None
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Accept pipeline input?	False
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Accept wildcard characters?	false
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-Encrypt <String>

The encryption type to use when connecting to SQL Server.

This value maps to the `Encrypt` property `SqlConnectionEncryptOption` on the SqlConnection object of the Microsoft.Data.SqlClient driver.

In v22 of the module, the default is 'Optional' (for compatibility with v21). In v23+ of the module, the default value will be 'Mandatory', which may create a breaking change for existing scripts.

> This parameter is new in v22 of the module.

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

-HostNameInCertificate <String>

The host name to be used in validating the SQL Server TLS/SSL certificate. You must pass this parameter if your SQL Server instance is enabled for Force

Encryption and you want to connect to an instance using hostname/shortname. If this parameter is omitted then passing the Fully Qualified Domain Name (FQDN) to

-ServerInstance is necessary to connect to a SQL Server instance enabled for Force Encryption.

> This parameter is new in v22 of the module.

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

-InputObject <AvailabilityGroupListener[]>

Specifies the listener, as an AvailabilityGroupListener object, that this cmdlet modifies.

Required?	true
Position?	1
Default value	None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Path <String[]>

Specifies the path of the availability group listener that this cmdlet modifies. If you do not specify this parameter, this cmdlet uses the current working location.

Required? false

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ProgressAction <ActionPreference>

Determines how PowerShell responds to progress updates generated by a script, cmdlet, or provider, such as the progress bars generated by the Write-Progress cmdlet. The Write-Progress cmdlet creates progress bars that show a command's status.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Script [<SwitchParameter>]

Indicates that this cmdlet returns a Transact-SQL script that performs the task that this cmdlet performs.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

`-StaticIp <String[]>`

Specifies an array of addresses. Each address entry is either an IPv4 address and subnet mask or an IPv6 address.

The listener listens on the addresses that this

parameter specifies.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

`-TrustServerCertificate [<SwitchParameter>]`

Indicates whether the channel will be encrypted while bypassing walking the certificate chain to validate trust.

In v22 of the module, the default is ``$true`` (for compatibility with v21). In v23+ of the module, the default value will be ``$false``, which may create a breaking change for existing scripts.

> This parameter is new in v22 of the module.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

`-Confirm [<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 [<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.SqlServer.Management.Smo.AvailabilityGroupListener[]

System.Object

OUTPUTS

NOTES

----- Example 1: Add an IPv4 address -----

```
PS          C:\>          Add-SqlAvailabilityGroupListenerStaticIp          -Path
"SQLSERVER:\SQL\PrimaryServer\InstanceName\AvailabilityGroups\MainAG\AvailabilityGroupListeners\MainListener"
-StaticIp "192.169.0.1/255.255.252.0"
```

This command adds a static IPv4 address to the availability group listener 'MainListener' on the availability group 'MainAG'. This IPv4 address serves as the virtual

IP address of the listener on the subnet 255.255.252.0. If the availability group spans multiple subnets, add a static IP address for each subnet to the listener.

Run this cmdlet on the server instance that hosts the primary replica.

----- Example 2: Add an IPv6 address -----

```
PS          C:\>          Add-SqlAvailabilityGroupListenerStaticIp          -Path
"SQLSERVER:\SQL\PrimaryServer\InstanceName\AvailabilityGroups\MainAG\AvailabilityGroupListeners\MainListener"
-StaticIp "2001:0db8:85a3:0000:0000:8a2e:0370:7334"
```

This command adds a static IPv6 address to the listener 'MainListener' on the availability group 'MainAG'.

----- Example 3: Create a script that adds an IPv4 address -----

```
PS          C:\>          Add-SqlAvailabilityGroupListenerStaticIp          -Path
"SQLSERVER:\SQL\PrimaryServer\InstanceName\AvailabilityGroups\MainAg\AvailabilityGroupListeners\MainListener"
-StaticIp "192.168.0.1/255.255.255.0" -Script
```

This creates a Transact-SQL script that adds a static IPv4 address to the availability group listener 'MainListener' on the availability group 'MainAG'.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/sqlserver/add-sqlavailabilitygrouplistenerstaticip>

New-SqlAvailabilityGroupListener

Set-SqlAvailabilityGroupListener

