



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

PS:\>Get-HELP New-SqlAvailabilityGroupListener -Full

NAME

New-SqlAvailabilityGroupListener

SYNOPSIS

Creates an availability group listener and attaches it to an availability group.

SYNTAX

```
New-SqlAvailabilityGroupListener [-Name] <String> [-InputObject] <AvailabilityGroup> [-AccessToken <PSObject>]
[-DhcpSubnet <String>] [-Encrypt {Mandatory | Optional
| Strict}] [-HostNameInCertificate <String>] [-Port <Int32>] [-ProgressAction <ActionPreference>] [-Script] [-StaticIp
<String[]>] [-TrustServerCertificate]
[-Confirm] [-WhatIf] [<CommonParameters>]
```

```
New-SqlAvailabilityGroupListener [-Name] <String> [[-Path] <String>] [-AccessToken <PSObject>] [-DhcpSubnet
<String>] [-Encrypt {Mandatory | Optional | Strict}]
[-HostNameInCertificate <String>] [-Port <Int32>] [-ProgressAction <ActionPreference>] [-Script] [-StaticIp <String[]>]
[-TrustServerCertificate] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

DESCRIPTION

The `New-SqlAvailabilityGroupListener` cmdlet creates an availability group listener, and attaches it to an availability group. Run this cmdlet on the server instance that hosts the primary replica.

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

`-DhcpSubnet <String>`

Specifies an IPv4 address and subnet mask of a network. The listener determines the address on this network by using DHCP. Specify the address in for following format: 192.168.0.1/255.255.255.0.

If you specify this parameter, do not specify the `StaticIp` parameter.

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

-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 <AvailabilityGroup>

Specifies the availability group, as an AvailabilityGroup object, to which this cmdlet attaches the listener.

Required?	true
Position?	2
Default value	None
Accept pipeline input?	True (ByValue)
Accept wildcard characters?	false

-Name <String>

Specifies a name for the listener.

Required?	true
Position?	1
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-Path <String>

Specifies the path of the availability group to which this cmdlet attaches a listener. If you do not specify this parameter, this cmdlet uses current working location.

Required?	false
Position?	2
Default value	None
Accept pipeline input?	False

Accept wildcard characters? false

-Port <Int32>

Specifies the port on which the listener listens for connections. The default port is TCP port 1433.

Required? false

Position? named

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.

If you specify this parameter, do not specify the DhcpSubnet parameter.

Required?	false
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.AvailabilityGroup

OUTPUTS

NOTES

---- Example 1: Create a listener for an availability group ----

```
PS C:\> New-SqlAvailabilityGroupListener -Name "MainListener" -Path "SQLSERVER:\SQL\PrimaryServer\InstanceName\AvailabilityGroups\MainAG"
```

This command creates an availability group listener named 'MainListener' for the availability group named 'MainAG'. This listener acquires a virtual IP address by

using DHCP. Run this command on the server instance that hosts the primary replica.

Example 2: Create a listener for an availability group that has a nondefault port

```
PS      C:\> New-SqlAvailabilityGroupListener -Name "MainListener" -Path
"SQLSERVER:\SQL\PrimaryServer\InstanceName\AvailabilityGroups\MainAG" -Port 1434
```

This command creates an availability group listener named 'MainListener' for the availability group named 'MainAG'. As in the previous example, this listener acquires

a virtual IP address by using DHCP. This example assigns the port 1434 on which it listens.

Example 3: Create a listener for an availability group that uses DHCP

```
PS C:\> New-SqlAvailabilityGroupListener -Name "MainListener" -DhcpSubnet "192.169.0.1/255.255.252.0" -Path
"SQLSERVER:\SQL\PrimaryServer\InstanceName\AvailabilityGroups\MainAG"
```

This command creates an availability group listener named 'MainListener' for the availability group named 'MainAG'. This listener acquires a virtual IP address in the

specified subnet by using DHCP.

Example 4: Create a listener for an availability group that uses a static address

```
PS  C:\> New-SqlAvailabilityGroupListener -Name "MainListener" -StaticIp "192.168.3.1/255.255.252.0" -Path
"SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAG"
```

This command creates an availability group listener named 'MainListener' for the availability group named 'MainAG'. This listener uses the IPv4 address specified by

the StaticIp parameter as its virtual IP address.

----- Example 5: Create a script that creates a listener -----

```
PS      C:\> New-SqlAvailabilityGroupListener -Name "MainListener" -Path
"SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAG" -Script
```

This command creates a Transact-SQL script that creates an availability group listener named 'MainListener' for the availability group named 'MainAG'. The command does not create a listener.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/sqlserver/new-sqlavailabilitygrouplistener>

[Add-SqlAvailabilityGroupListenerStaticIp](#)

[Set-SqlAvailabilityGroupListener](#)