



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

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

NAME

New-SqlHADREndpoint

SYNOPSIS

Creates a database mirroring endpoint on a SQL Server instance.

SYNTAX

```
New-SqlHADREndpoint [-Name] <String> [-InputObject] <Server> [-AccessToken <PSObject>] [-AuthenticationOrder
{Ntlm | Kerberos | Negotiate | Certificate |
NtlmCertificate | KerberosCertificate | NegotiateCertificate | CertificateNtlm | CertificateKerberos | CertificateNegotiate}]
[-Certificate <String>] [-Encrypt
{Mandatory | Optional | Strict}] [-Encryption {Disabled | Supported | Required}] [-EncryptionAlgorithm {None | RC4 | Aes |
AesRC4 | RC4Aes}] [-HostNameInCertificate
<String>] [-IpAddress <IPAddress>] [-Owner <String>] [-Port <Int32>] [-ProgressAction <ActionPreference>] [-Script]
[-TrustServerCertificate] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
New-SqlHADREndpoint [-Name] <String> [[-Path] <String>] [-AccessToken <PSObject>] [-AuthenticationOrder {Ntlm |
Kerberos | Negotiate | Certificate | NtlmCertificate |
```

KerberosCertificate | NegotiateCertificate | CertificateNtlm | CertificateKerberos | CertificateNegotiate}} [-Certificate
 <String>] [-Encrypt {Mandatory | Optional |
 Strict}] [-Encryption {Disabled | Supported | Required}] [-EncryptionAlgorithm {None | RC4 | Aes | AesRC4 | RC4Aes}]
 [-HostNameInCertificate <String>] [-IpAddress
 <IPAddress>] [-Owner <String>] [-Port <Int32>] [-ProgressAction <ActionPreference>] [-Script] [-TrustServerCertificate]
 [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The New-SqlHADREndpoint cmdlet creates a database mirroring endpoint on a SQL Server instance. This endpoint is
 required on every server instance that hosts an
 availability replica for any availability group. Each server instance can only have one database mirroring endpoint. If a
 server instance possesses a database
 mirroring endpoint, use the existing endpoint.

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 -ResourceUri

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

-AuthenticationOrder <EndpointAuthenticationOrder>

Specifies the order and type of authentication that is used by the endpoint.

If the specified option calls for a certificate, the Certificate parameter must be set.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Certificate <String>

Specifies the name of the certificate that the endpoint will use to authenticate connections. The far endpoint must have a certificate with the public key matching the private key of the certificate.

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

-Encryption <EndpointEncryption>

Specifies the encryption option for the endpoint.

The default value is `Required`.

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

-EncryptionAlgorithm <EndpointEncryptionAlgorithm>

Specifies the form of encryption used by the endpoint.

By default the endpoint will use Aes encryption.

NOTE: The RC4 algorithm is only supported for backward compatibility. New material can only be encrypted using RC4 or RC4_128 when the database is in compatibility level 90 or 100, but this is not recommended. For increased security, use a newer algorithm such as one of the `AES` algorithms instead.

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 <Server>

Specifies the server object of the SQL Server instance where the endpoint is created.

Required? true

Position? 2

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-IpAddress <IPAddress>

Specifies the IP address of the endpoint. The default is ALL, which indicates that the listener accepts a connection on any valid IP address.

Required? false

Position? named

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

-Name <String>

Specifies the endpoint name.

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

-Owner <String>

Specifies the login of the owner of the endpoint. By default, this is the current login.

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

-Path <String>

Specifies the path to the SQL Server instance of the endpoint. If not specified, the current working location is used.

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

-Port <Int32>

Specifies the TCP port on which the endpoint will listen for connections. The default is `5022` .

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.

Required? false
Position? named
Default value False
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.Server

OUTPUTS

SMO.Endpoint

NOTES

----- Example 1: Create a database mirroring endpoint -----

```
PS C:\> New-SqlHADREndpoint -Path "SQLSERVER:\Sql\Computer\Instance" -Name "MainEndpoint"
```

This command creates a database mirroring endpoint named `MainEndpoint` on the server instance located at the specified path. This endpoint uses the default port, `5022`.

Example 2: Create a database mirroring endpoint that requires encryption

```
PS C:\> New-SqlHADREndpoint -Path "SQLSERVER:\Sql\Computer\Instance" -Name "MainEndpoint" -Port 4022  
-EncryptionAlgorithm Aes -Encryption Required
```

This command creates a database mirroring endpoint named `MainEndpoint` on the server instance located at the specified path. This endpoint listens on port `4022`.

The endpoint uses the `AES` algorithm for encryption and requires that connections use encryption.

Example 3: Create a database mirroring endpoint that is encrypted with a certificate

```
PS C:\> New-SqlHADREndpoint -Path "SQLSERVER:\Sql\Computer\Instance" -Name "MainEndpoint"
```

-AuthenticationOrder Certificate -Certificate "EncryptionCertificate"

This command creates a database mirroring endpoint named `MainEndpoint` on the server instance located at the specified path. This endpoint uses the certificate named

`EncryptionCertificate` to authenticate connections.

---- Example 4: Create a database mirroring endpoint script ----

```
PS C:\> New-SqlHADREndpoint -Path "SQLSERVER:\Sql\Computer\Instance" -Name "MainEndpoint" -Script
```

This command outputs the Transact-SQL script that creates a database mirroring endpoint named `MainEndpoint` on the server instance located at the specified path. The

endpoint is not actually created by this command.

RELATED LINKS

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

Set-SqlHADREndpoint