



Windows PowerShell Get-Help on Cmdlet 'Test-SqlAvailabilityReplica'

PS:\>Get-HELP Test-SqlAvailabilityReplica -Full

NAME

Test-SqlAvailabilityReplica

SYNOPSIS

Evaluates the health of availability replicas.

SYNTAX

Test-SqlAvailabilityReplica [-InputObject] <AvailabilityReplica[]> [-AllowUserPolicies] [-NoRefresh] [-ShowPolicyDetails]
[-Confirm] [-WhatIf] [<CommonParameters>]

Test-SqlAvailabilityReplica [[-Path] <String[]>] [-AllowUserPolicies] [-NoRefresh] [-ShowPolicyDetails] [-Confirm] [-WhatIf]
[<CommonParameters>]

DESCRIPTION

The Test-SqlAvailabilityReplica cmdlet assesses the health of availability replicas by evaluating SQL Server policy based management (PBM) policies. You must have

`CONNECT`, `VIEW SERVER STATE`, and `VIEW ANY DEFINITION` permissions to execute this cmdlet.

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

PARAMETERS

-AllowUserPolicies [<SwitchParameter>]

Indicates that this cmdlet runs user policies found in the Always On policy categories.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <AvailabilityReplica[]>

Specifies an array of availability replicas to evaluate.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-NoRefresh [<SwitchParameter>]

Indicates that this cmdlet will not manually refresh the objects specified by the Path or InputObject parameters.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Path <String[]>

Specifies the path to one or more availability replicas. This parameter is optional. If not specified, the current working directory is used.

location is used.

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

-ShowPolicyDetails [<SwitchParameter>]

Indicates that the result of each policy evaluation performed by this cmdlet is shown. The cmdlet outputs one object per policy evaluation. This object contains

fields that describe the results of the evaluation.

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.AvailabilityReplica[]

OUTPUTS

NOTES

-- Example 1: Evaluate the health of an availability replica --

```
PS C:\> Test-SqlAvailabilityReplica -Path "SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\AvailabilityReplicas\MainReplica"
```

This command evaluates the health of the availability replica named `MainReplica` in the `MainAg` availability group and outputs a brief summary.

Example 2: Evaluate the health of all availability replicas in an availability group

```
PS C:\> Get-ChildItem "SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\AvailabilityReplicas" | Test-SqlAvailabilityReplica
```

This command evaluates the health of all availability replicas in the availability group named `MainAg` and outputs a brief summary for each replica.

Example 3: Evaluate the health of an availability replica for each PBM policy

```
PS C:\> Test-SqlAvailabilityReplica -Path  
"SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\AvailabilityReplicas\MainReplica" -ShowPolicyDetails
```

This command evaluates the health of the availability replica named `MainReplica` in the `MainAg` availability group and outputs the evaluation results for each PBM policy that was executed.

Example 4: Evaluate the health of an availability replica and include userdefined policies

```
PS C:\> Test-SqlAvailabilityReplica -Path  
"SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\AvailabilityReplicas\MainReplica" -AllowUserPolicies
```

This command evaluates the health of the availability replica named `MainReplica` in the `MainAg` availability group. User-defined policies are included in this evaluation.

Example 5: Show all availability replicas that are in an error state

```
PS C:\> Get-ChildItem "SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\AvailabilityReplicas" |  
Test-SqlAvailabilityReplica | Where-Object { $_.HealthState  
-eq "Error" }
```

This command shows all availability replicas with a health state of `Error` in the `MainAg` availability group.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/sqlserver/test-sqlavailabilityreplica>

New-SqlAvailabilityReplica

Remove-SqlAvailabilityReplica

Set-SqlAvailabilityReplica

