



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

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

NAME

Test-SqlAvailabilityGroup

SYNOPSIS

Evaluates the health of an availability group.

SYNTAX

Test-SqlAvailabilityGroup [-InputObject] <AvailabilityGroup[]> [-AllowUserPolicies] [-NoRefresh] [-ShowPolicyDetails] [-Confirm] [-WhatIf] [<CommonParameters>]

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

DESCRIPTION

The Test-SqlAvailabilityGroup cmdlet evaluates the health of an availability group. This cmdlet evaluates SQL Server policy-based management policies. To run this

cmdlet, you must have `CONNECT`, `VIEW SERVER STATE`, and `VIEW ANY DEFINITION` user rights.

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

PARAMETERS

-AllowUserPolicies [<SwitchParameter>]

Indicates that this cmdlet tests user policies found in the policy categories of Always On Availability Groups.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <AvailabilityGroup[]>

Specifies an array of availability group, as AvailabilityGroup objects. This cmdlet evaluates the health of the availability groups that this parameter specifies.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-NoRefresh [<SwitchParameter>]

Indicates that will not refresh the objects specified by the Path or InputObject parameter.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Path <String[]>

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

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

-ShowPolicyDetails [<SwitchParameter>]

Indicates that this cmdlet displays the result of each policy evaluation that it performs. The cmdlet returns one object per policy evaluation. Each policy object

includes the results of evaluation. This information includes whether the policy passed or not, the policy name, and policy category.

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

INPUTS

Microsoft.SqlServer.Management.Smo.AvailabilityGroup[]

OUTPUTS

NOTES

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

```
PS C:\> Test-SqlAvailabilityGroup -Path "SQLSERVER:\Sql\Server\InstanceName\AvailabilityGroups\MainAG"
```

This command evaluates the health of the availability group named `MainAG`. The command returns a summary.

--- Example 2: Evaluate the health of all availability group ---

```
PS C:\> Get-ChildItem "SQLSERVER:\Sql\Server\InstanceName\AvailabilityGroups" | Test-SqlAvailabilityGroup
```

This command gets all availability groups that have availability replicas in the specified location in the SQLSERVER: provider. The command passes them to the current

cmdlet by using the pipeline operator. That cmdlet evaluates the health of each availability group.

Example 3: Display results for each policy of an availability group

```
PS C:\> Test-SqlAvailabilityGroup -Path "SQLSERVER:\Sql\Server\InstanceName\AvailabilityGroups\MainAG"
-ShowPolicyDetails
```

This command evaluates the health of the availability group named `MainAG`. This command specifies the ShowPolicyDetails parameter. Therefore, it displays the

evaluation results for each policy-based management policy that ran.

Example 4: Display results for userdefined policies of an availability group

```
PS C:\> Test-SqlAvailabilityGroup -Path "SQLSERVER:\Sql\Server\InstanceName\AvailabilityGroups\MainAG"
-AllowUserPolicies
```

This command evaluates the health of the availability group named `MainAG`. The command includes user-defined policies in this evaluation.

----- Example 5: Get groups that have an error state -----

```
PS C:\> Get-ChildItem "SQLSERVER:\Sql\Server\InstanceName\AvailabilityGroups" | Test-SqlAvailabilityGroup |
Where-Object { $_.HealthState -eq "Error" }
```

This command gets all availability groups that have availability replicas in the specified location in the SQLSERVER: provider. The command passes them to the current

cmdlet by using the pipeline operator. That cmdlet evaluates the health of each availability group. The command passes those results to the Where-Object cmdlet, which

returns results based on the HealthState property.

RELATED LINKS

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

Join-SqlAvailabilityGroup

New-SqlAvailabilityGroup

Remove-SqlAvailabilityGroup

Set-SqlAvailabilityGroup

Switch-SqlAvailabilityGroup