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

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

NAME

Test-SqlDatabaseReplicaState

SYNOPSIS

Evaluates the health of an availability database.

SYNTAX

Test-SqlDatabaseReplicaState [-InputObject] <DatabaseReplicaState[]> [-AllowUserPolicies] [-NoRefresh] [-ShowPolicyDetails] [-Confirm] [-WhatIf] [<CommonParameters>]

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

DESCRIPTION

The Test-SqlDatabaseReplicaState cmdlet assesses the health of an availability database on all joined 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 <DatabaseReplicaState[]>

Specifies an array of availability database state objects. This cmdlet computes the health of these availability databases.

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 database replica cluster states of the availability database. This is an optional parameter. If not specified, the value of the

current working location is used.

Required? false

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ShowPolicyDetails [<SwitchParameter>]

Indicates that this cmdlet shows the result of each policy evaluation performed. The cmdlet outputs one object per policy evaluation and the results of evaluation

are available in the fields of the object.

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.DatabaseReplicaState[]

OUTPUTS

NOTES

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

PS C:\> $Path = "SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\DatabaseReplicaStates\MainReplica.MainDatabase"

PS C:\> Test-SqlDatabaseReplicaState -Path $Path

This command evaluates the health of the availability database named `MainDatabase` on the availability replica `MainReplica` in the availability group `MainAg` and

outputs a brief summary.

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

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

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

Example 3: Evaluate the health of all availability databases in an availability group showing PBM evaluation results

```
PS C:\> Get-ChildItem "SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\DatabaseReplicaStates" | Test-SqlDatabaseReplicaState -ShowPolicyDetails
```

This command evaluates the health of all availability databases in the `MainAg` availability group and outputs the evaluation results for each PBM policy that was

executed.

Example 4: Evaluate the health of all availability databases in an availability group and include userdefined policies

```
PS C:\> Get-ChildItem "SQLSERVER:\Sql\Computer\Instance\AvailabilityGroups\MainAg\DatabaseReplicaStates" | Test-SqlDatabaseReplicaState -AllowUserPolicies
```

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

Example 5: Show all availability databases in an error health state

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

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

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/sqlserver/test-sqldatabasereplicastate

Add-SqlAvailabilityDatabase

Remove-SqlAvailabilityDatabase

Resume-SqlAvailabilityDatabase

Suspend-SqlAvailabilityDatabase