



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

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

NAME

Test-SqlSmartAdmin

SYNOPSIS

Tests the health of Smart Admin by evaluating SQL Server policy based management (PBM) policies.

SYNTAX

Test-SqlSmartAdmin [-InputObject] <SmartAdmin[]> [-AccessToken <PSObject>] [-AllowUserPolicies] [-Encrypt {Mandatory | Optional | Strict}] [-HostNameInCertificate <String>] [-NoRefresh] [-ProgressAction <ActionPreference>] [-ShowPolicyDetails] [-TrustServerCertificate] [-Confirm] [-WhatIf] [<CommonParameters>]

Test-SqlSmartAdmin [[-Path] <String[]>] [-AccessToken <PSObject>] [-AllowUserPolicies] [-Encrypt {Mandatory | Optional | Strict}] [-HostNameInCertificate <String>] [-NoRefresh] [-ProgressAction <ActionPreference>] [-ShowPolicyDetails] [-TrustServerCertificate] [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Test-SqlSmartAdmin cmdlet tests the health of Smart Admin for the SQL Server instance by evaluating SQL Server policy based management (PBM) policies.

This cmdlet supports the following modes of operation to return the object:

- Pass the path of the instance of SQL Server to the Path parameter.
- Pass a Smo.Server object to the InputObject parameter, either directly or through the pipeline.

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

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

-AllowUserPolicies [<SwitchParameter>]

Indicates that this cmdlet runs user policies found in the Smart Admin warning and error policy categories.

Required?	false
Position?	named
Default value	False
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 <SmartAdmin[]>

Specifies an array of SmartAdmin objects. To get this object, use the Get-SqlSmartAdmin cmdlet.

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 object 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 of the SQL Server instance, as a string array. If you do not specify a value for this parameter, the cmdlet uses the current working location.

Required? false
Position? 1
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

`-ShowPolicyDetails [<SwitchParameter>]`

Indicates that this cmdlet shows the result of the policy. The cmdlet outputs one object per policy assessment. The output includes the results of the assessment:

such as, the name of the policy, category, and health.

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
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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.SmartAdmin[]

OUTPUTS

This cmdlet outputs the results from the evaluation of the policies.

NOTES

--- Example 1: Test the status of the SQL Server Smart Admin ---

```
PS C:\> cd SQLSERVER:\SQL\Computer\MyInstance
```

```
PS SQLSERVER:\SQL\Computer\MyInstance> Get-SqlSmartAdmin | Test-SqlSmartAdmin
```

The first command changes directory to the SQL instance `Computer\MyInstance`.

Example 2: Evaluate the test results of the SQL Server Smart Admin

```
PS C:\> cd SQLSERVER:\SQL\Computer\MyInstance
```

```
PS SQLSERVER:\SQL\Computer\MyInstance> $PolicyResults = Get-SqlSmartAdmin | Test-SqlSmartAdmin
```

```
PS SQLSERVER:\SQL\Computer\MyInstance> $PolicyResults.PolicyEvaluationDetails | select Name, Category, Result,  
Expression
```

The first command changes directory to the SQL instance Computer\MyInstance.

-- Example 3: Output the status of the SQL Server Smart Admin --

```
PS C:\> PS SQLSERVER:\SQL\COMPUTER\DEFAULT> (Get-SqlSmartAdmin).EnumHealthStatus()
```

```
number_of_storage_connectivity_errors: 0
```

```
number_of_sql_errors: 2
```

```
number_of_invalid_credential_errors: 0
```

```
number_of_other_errors : 0
```

number_of_corrupted_or_deleted_backups: 0

number_of_backup_loops: 2

number_of_retention_loops: 2

This command outputs the status of the local SQL Server Smart Admin.

RELATED LINKS

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

Get-SqlSmartAdmin

Set-SqlSmartAdmin