



Windows PowerShell Get-Help on Cmdlet 'Set-AzSynapseSqlPoolAuditSetting'

PS: \>Get-HELP Set-AzSynapseSqlPoolAuditSetting -Full

NAME

Set-AzSynapseSqlPoolAuditSetting

SYNOPSIS

Changes the auditing settings for an Azure Synapse Analytics SQL pool.

SYNTAX

```
Set-AzSynapseSqlPoolAuditSetting [[-ResourceGroupName] <System.String>] [-WorkspaceName] <System.String>
[-AuditAction <System.String[]>] [-AuditActionGroup
{BATCH_STARTED_GROUP | BATCH_COMPLETED_GROUP |
APPLICATION_ROLE_CHANGE_PASSWORD_GROUP | BACKUP_RESTORE_GROUP |
DATABASE_LOGOUT_GROUP | DATABASE_OBJECT_CHANGE_GROUP |
DATABASE_OBJECT_OWNERSHIP_CHANGE_GROUP | DATABASE_OBJECT_PERMISSION_CHANGE_GROUP |
DATABASE_OPERATION_GROUP | DATABASE_PERMISSION_CHANGE_GROUP |
DATABASE_PRINCIPAL_CHANGE_GROUP | DATABASE_PRINCIPAL_IMPERSONATION_GROUP |
DATABASE_ROLE_MEMBER_CHANGE_GROUP | FAILED_DATABASE_AUTHENTICATION_GROUP |
SCHEMA_OBJECT_ACCESS_GROUP | SCHEMA_OBJECT_CHANGE_GROUP |
SCHEMA_OBJECT_OWNERSHIP_CHANGE_GROUP | SCHEMA_OBJECT_PERMISSION_CHANGE_GROUP |
SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP | USER_CHANGE_PASSWORD_GROUP}]
```

[-BlobStorageTargetState {Enabled | Disabled}] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-EventHubAuthorizationRuleResourceId <System.String>] [-EventHubName
<System.String>] [-EventHubTargetState {Enabled | Disabled}] [-LogAnalyticsTargetState {Enabled | Disabled}]
[-PassThru] [-PredicateExpression <System.String>]
[-RetentionInDays <System.Nullable`1[System.UInt32]>] [-SqlPoolName <System.String>] [-StorageAccountResourceId
<System.String>] [-StorageKeyType {Primary | Secondary}]
[-WorkspaceResourceId <System.String>] [-Confirm] [-WhatIf] [<CommonParameters>]

Set-AzSynapseSqlPoolAuditSetting [-AuditAction <System.String[]>] [-AuditActionGroup {BATCH_STARTED_GROUP |
BATCH_COMPLETED_GROUP |
APPLICATION_ROLE_CHANGE_PASSWORD_GROUP | BACKUP_RESTORE_GROUP |
DATABASE_LOGOUT_GROUP | DATABASE_OBJECT_CHANGE_GROUP |
DATABASE_OBJECT_OWNERSHIP_CHANGE_GROUP |
DATABASE_OBJECT_PERMISSION_CHANGE_GROUP | DATABASE_OPERATION_GROUP |
DATABASE_PERMISSION_CHANGE_GROUP | DATABASE_PRINCIPAL_CHANGE_GROUP |
DATABASE_PRINCIPAL_IMPERSONATION_GROUP | DATABASE_ROLE_MEMBER_CHANGE_GROUP |
FAILED_DATABASE_AUTHENTICATION_GROUP | SCHEMA_OBJECT_ACCESS_GROUP |
SCHEMA_OBJECT_CHANGE_GROUP | SCHEMA_OBJECT_OWNERSHIP_CHANGE_GROUP |
SCHEMA_OBJECT_PERMISSION_CHANGE_GROUP | SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP |
USER_CHANGE_PASSWORD_GROUP}] [-BlobStorageTargetState {Enabled | Disabled}] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-EventHubAuthorizationRuleResourceId <System.String>] [-EventHubName
<System.String>] [-EventHubTargetState {Enabled | Disabled}] [-LogAnalyticsTargetState {Enabled | Disabled}]
[-PassThru] [-PredicateExpression <System.String>]
-ResourceId <System.String> [-RetentionInDays <System.Nullable`1[System.UInt32]>] [-StorageAccountResourceId
<System.String>] [-StorageKeyType {Primary | Secondary}]
[-WorkspaceResourceId <System.String>] [-Confirm] [-WhatIf] [<CommonParameters>]

Set-AzSynapseSqlPoolAuditSetting [-AuditAction <System.String[]>] [-AuditActionGroup {BATCH_STARTED_GROUP |
BATCH_COMPLETED_GROUP |
APPLICATION_ROLE_CHANGE_PASSWORD_GROUP | BACKUP_RESTORE_GROUP |
DATABASE_LOGOUT_GROUP | DATABASE_OBJECT_CHANGE_GROUP

DATABASE_OBJECT_OWNERSHIP_CHANGE_GROUP |
 DATABASE_OBJECT_PERMISSION_CHANGE_GROUP | DATABASE_OPERATION_GROUP |
 DATABASE_PERMISSION_CHANGE_GROUP | DATABASE_PRINCIPAL_CHANGE_GROUP |
 DATABASE_PRINCIPAL_IMPERSONATION_GROUP | DATABASE_ROLE_MEMBER_CHANGE_GROUP |
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 SCHEMA_OBJECT_PERMISSION_CHANGE_GROUP | SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP |
 USER_CHANGE_PASSWORD_GROUP}} [-BlobStorageTargetState {Enabled | Disabled}] [-DefaultProfile
 <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
 [-EventHubAuthorizationRuleResourceId <System.String>] [-EventHubName
 <System.String>] [-EventHubTargetState {Enabled | Disabled}] [-LogAnalyticsTargetState {Enabled | Disabled}]
 [-PassThru] [-PredicateExpression <System.String>]
 [-RetentionInDays <System.Nullable`1[System.UInt32]>] -SqlPoolName <System.String> [-StorageAccountResourceId
 <System.String>] [-StorageKeyType {Primary | Secondary}]
 -WorkspaceObject <Microsoft.Azure.Commands.Synapse.Models.PSSynapseWorkspace> [-WorkspaceResourceId
 <System.String>] [-Confirm] [-WhatIf] [<CommonParameters>]

Set-AzSynapseSqlPoolAuditSetting [-AuditAction <System.String[]>] [-AuditActionGroup {BATCH_STARTED_GROUP |
 BATCH_COMPLETED_GROUP |
 APPLICATION_ROLE_CHANGE_PASSWORD_GROUP | BACKUP_RESTORE_GROUP |
 DATABASE_LOGOUT_GROUP | DATABASE_OBJECT_CHANGE_GROUP |
 DATABASE_OBJECT_OWNERSHIP_CHANGE_GROUP |
 DATABASE_OBJECT_PERMISSION_CHANGE_GROUP | DATABASE_OPERATION_GROUP |
 DATABASE_PERMISSION_CHANGE_GROUP | DATABASE_PRINCIPAL_CHANGE_GROUP |
 DATABASE_PRINCIPAL_IMPERSONATION_GROUP | DATABASE_ROLE_MEMBER_CHANGE_GROUP |
 FAILED_DATABASE_AUTHENTICATION_GROUP | SCHEMA_OBJECT_ACCESS_GROUP |
 SCHEMA_OBJECT_CHANGE_GROUP | SCHEMA_OBJECT_OWNERSHIP_CHANGE_GROUP |
 SCHEMA_OBJECT_PERMISSION_CHANGE_GROUP | SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP |
 USER_CHANGE_PASSWORD_GROUP}} [-BlobStorageTargetState {Enabled | Disabled}] [-DefaultProfile
 <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
 [-EventHubAuthorizationRuleResourceId <System.String>] [-EventHubName
 <System.String>] [-EventHubTargetState {Enabled | Disabled}] [-LogAnalyticsTargetState {Enabled | Disabled}]
 [-PassThru] [-PredicateExpression <System.String>]

`[-RetentionInDays <System.Nullable`1[System.UInt32]>] [-SqlPoolObject <Microsoft.Azure.Commands.Synapse.Models.PSSynapseSqlPool> [-StorageAccountResourceId <System.String>] [-StorageKeyType {Primary | Secondary}] [-WorkspaceResourceId <System.String>] [-Confirm] [-WhatIf] [<CommonParameters>]`

DESCRIPTION

The `Set-AzSynapseSqlPoolAuditSetting` cmdlet changes the auditing settings of an Azure Synapse Analytics SQL pool. When blob storage is a destination for audit logs, specify the `StorageAccountResourceId` parameter to determine the storage account for the audit logs and the `StorageKeyType` parameter to define the storage keys. You can also define retention for the audit logs by setting the value of the `RetentionInDays` parameter to define the period for the audit logs.

PARAMETERS

`-AuditAction <System.String[]>`

The set of audit actions.

The supported actions to audit are:

SELECT

UPDATE

INSERT

DELETE

EXECUTE

RECEIVE

REFERENCES

The general form for defining an action to be audited is:

[action] ON [object] BY [principal]

Note that [object] in the above format can refer to an object like a table, view, or stored procedure, or an entire database or schema. For the latter cases, the

forms DATABASE::[dbname] and SCHEMA::[schemaname] are used, respectively.

For example:

SELECT on dbo.myTable by public

SELECT on DATABASE::myDatabase by public

SELECT on SCHEMA::mySchema by public

For more information, see

<https://learn.microsoft.com/sql/relational-databases/security/auditing/sql-server-audit-action-groups-and-actions#database-level-audit-actions>.

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

-AuditActionGroup <Microsoft.Azure.Commands.Synapse.Models.Auditing.AuditActionGroups[]>

The recommended set of action groups to use is the following combination - this will audit all the queries and stored procedures executed against the database, as

well as successful and failed logins:

"BATCH_COMPLETED_GROUP",

"SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP",

"FAILED_DATABASE_AUTHENTICATION_GROUP"

This above combination is also the set that is configured by default. These groups cover all SQL statements and stored procedures executed against the database,

and should not be used in combination with other groups as this will result in duplicate audit logs.

For more information, see

<https://learn.microsoft.com/sql/relational-databases/security/auditing/sql-server-audit-action-groups-and-actions#database-level-audit-action-groups>.

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

-BlobStorageTargetState <System.String>

Indicates whether blob storage is a destination for audit records.

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

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with Azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EventHubAuthorizationRuleResourceId <System.String>

The resource Id for the event hub authorization rule

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EventHubName <System.String>

The name of the event hub. If none is specified when providing EventHubAuthorizationRuleResourceId, the default event hub will be selected.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EventHubTargetState <System.String>

Indicates whether event hub is a destination for audit records.

Required? false

Position? named

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

-LogAnalyticsTargetState <System.String>

Indicates whether log analytics is a destination for audit records.

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

-PassThru <System.Management.Automation.SwitchParameter>

This Cmdlet does not return an object by default. If this switch is specified, it returns true if successful.

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-PredicateExpression <System.String>

The T-SQL predicate (WHERE clause) used to filter audit logs.

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

-ResourceGroupName <System.String>

Resource group name.

Required? false
Position? 0
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-ResourceId <System.String>

Resource identifier of Synapse SQL Pool.

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

-RetentionInDays <System.Nullable`1[System.UInt32]>

The number of retention days for the audit logs.

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

-SqlPoolName <System.String>

Name of Synapse SQL pool.

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

-SqlPoolObject <Microsoft.Azure.Commands.Synapse.Models.PSSynapseSqlPool>

SQL pool input object, usually passed through the pipeline.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageAccountResourceId <System.String>

The storage account resource id

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-StorageKeyType <System.String>

Specifies which of the storage access keys to use.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-WorkspaceName <System.String>

Name of Synapse workspace.

Required? true

Position? 1

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

-WorkspaceObject <Microsoft.Azure.Commands.Synapse.Models.PSSynapseWorkspace>

workspace input object, usually passed through the pipeline.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByValue)
Accept wildcard characters? false

-WorkspaceResourceId <System.String>

The workspace ID (resource ID of a Log Analytics workspace) for a Log Analytics workspace to which you would like to send Audit Logs. Example:

/subscriptions/4b9e8510-67ab-4e9a-95a9-e2f1e570ea9c/resourceGroups/insights-integration/providers/Microsoft.Operation
allInsights/workspaces/viruela2

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

-Confirm <System.Management.Automation.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 <System.Management.Automation.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.Azure.Commands.Synapse.Models.PSSynapseWorkspace

Microsoft.Azure.Commands.Synapse.Models.PSSynapseSqlPool

OUTPUTS

Microsoft.Azure.Commands.Synapse.Models.SqlPoolAuditModel

NOTES

----- Example 1 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool
-BlobStorageTargetState Enabled -StorageAccountResourceId
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/resourcegroup01/providers/Microsoft.Storage/st
orageAccounts/mystorage" -StorageKeyType Primary
```

Enable the blob storage auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 2 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool
-BlobStorageTargetState Disabled
```

Disable the blob storage auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 3 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool
-BlobStorageTargetState Enabled -StorageAccountResourceId
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/resourcegroup01/providers/Microsoft.Storage/st
orageAccounts/mystorage" -StorageKeyType Primary
-PredicateExpression "statement <> 'select 1'"
```

Enable the blob storage auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool with advanced filtering using a T-SQL predicate.

----- Example 4 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool -PredicateExpression
```

""

Remove the advanced filtering setting from the auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 5 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool  
-EventHubTargetState Enabled -EventHubName "EventHubName"  
-EventHubAuthorizationRuleResourceId "EventHubAuthorizationRuleResourceId"
```

Enable the event hub auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 6 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool  
-EventHubTargetState Disabled
```

Disable the event hub auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 7 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool  
-LogAnalyticsTargetState Enabled -WorkspaceResourceId
```

nalInsights/workspaces/myworkspace"

Enable the log analytics auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 8 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool  
-LogAnalyticsTargetState Disabled
```

Disable the log analytics auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool.

----- Example 9 -----

```
Get-AzSynapseSqlPool -WorkspaceName ContosoWorkspace -Name ContosoSqlPool |  
Set-AzSynapseSqlPoolAuditSetting -BlobStorageTargetState Disabled
```

Disable the blob storage auditing policy of an Azure Synapse Analytics SQL pool named ContosoSqlPool through pipeline.

----- Example 10 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool  
-LogAnalyticsTargetState Enabled -WorkspaceResourceId
```

```
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/insights-integration/providers/Microsoft.Operatio  
nalInsights/workspaces/myworkspace"
```

```
-BlobStorageTargetState Disabled
```

Disable sending audit records of an Azure Synapse Analytics SQL Pool to blob storage, and enable sending them to log analytics.

----- Example 11 -----

```
Set-AzSynapseSqlPoolAuditSetting -WorkspaceName ContosoWorkspace -Name ContosoSqlPool
-BlobStorageTargetState Enabled -StorageAccountResourceId

"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/resourcegroup01/providers/Microsoft.Storage/st
orageAccounts/mystorage" -EventHubTargetState

Enabled -EventHubName "EventHubName" -EventHubAuthorizationRuleResourceId
"EventHubAuthorizationRuleResourceId" -LogAnalyticsTargetState Enabled -WorkspaceResourceId

"/subscriptions/4b9e8510-67ab-4e9a-95a9-e2f1e570ea9c/resourceGroups/insights-integration/providers/Microsoft.Operatio
nalInsights/workspaces/viruela2"
```

Enable sending audit records of an Azure Synapse Analytics SQL Pool to blob storage, event hub and log analytics.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.synapse/set-azsynapsesqlpoolauditsetting>