



Windows PowerShell Get-Help on Cmdlet 'Update-AzSynapseWorkspace'

PS:\>Get-HELP Update-AzSynapseWorkspace -Full

NAME

Update-AzSynapseWorkspace

SYNOPSIS

Updates a Synapse Analytics workspace.

SYNTAX

```

Update-AzSynapseWorkspace [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnablePublicNetworkAccess <System.Boolean>] [-EncryptionKeyName <System.String>] [-GitRepository
<Microsoft.Azure.Commands.Synapse.Models.PSWorkspaceRepositoryConfiguration>] -InputObject
<Microsoft.Azure.Commands.Synapse.Models.PSSynapseWorkspace>
[-ManagedVirtualNetwork <Microsoft.Azure.Commands.Synapse.Models.PSManagedVirtualNetworkSettings>]
[-SqlAdministratorLoginPassword <System.Security.SecureString>]
[-Tag <System.Collections.Hashtable>] [-UserAssignedIdentityAction {Add | Remove | Set}] [-UserAssignedIdentityId
<System.Collections.Generic.List`1[System.String]>]
[-UserAssignedIdentityInEncryption <System.String>] [-UseSystemAssignedIdentityInEncryption <System.Object>]
[-Confirm] [-WhatIf] [<CommonParameters>]

```

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-EnablePublicNetworkAccess <System.Boolean>] [-EncryptionKeyName <System.String>] [-GitRepository

<Microsoft.Azure.Commands.Synapse.Models.PSWorkspaceRepositoryConfiguration>] [-ManagedVirtualNetwork

<Microsoft.Azure.Commands.Synapse.Models.PSManagedVirtualNetworkSettings>] -Name <System.String>

[-ResourceGroupName <System.String>] [-SqlAdministratorLoginPassword

<System.Security.SecureString>] [-Tag <System.Collections.Hashtable>] [-UserAssignedIdentityAction {Add | Remove |

Set}] [-UserAssignedIdentityId

<System.Collections.Generic.List`1[System.String]>] [-UserAssignedIdentityInEncryption <System.String>]

[-UseSystemAssignedIdentityInEncryption <System.Object>]

[-Confirm] [-WhatIf] [<CommonParameters>]

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-EnablePublicNetworkAccess <System.Boolean>] [-EncryptionKeyName <System.String>] [-GitRepository

<Microsoft.Azure.Commands.Synapse.Models.PSWorkspaceRepositoryConfiguration>] [-ManagedVirtualNetwork

<Microsoft.Azure.Commands.Synapse.Models.PSManagedVirtualNetworkSettings>] -ResourceId <System.String>

[-SqlAdministratorLoginPassword <System.Security.SecureString>]

[-Tag <System.Collections.Hashtable>] [-UserAssignedIdentityAction {Add | Remove | Set}] [-UserAssignedIdentityId

<System.Collections.Generic.List`1[System.String]>]

[-UserAssignedIdentityInEncryption <System.String>] [-UseSystemAssignedIdentityInEncryption <System.Object>]

[-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Update-AzSynapseWorkspace cmdlet updates an Azure Synapse Analytics workspace.

PARAMETERS

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Position? named
Default value False
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

-EnablePublicNetworkAccess <System.Boolean>

Enable or Disable public network access to workspace. Possible values include: 'Enabled', 'Disabled'

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

-EncryptionKeyName <System.String>

The workspace encryption key name.

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

-GitRepository <Microsoft.Azure.Commands.Synapse.Models.PSWorkspaceRepositoryConfiguration>

Git Repository Settings. Connect workspace to the repository for source control and collaboration for work on your workspace pipelines

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

-InputObject <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

-ManagedVirtualNetwork <Microsoft.Azure.Commands.Synapse.Models.PSManagedVirtualNetworkSettings>

Managed Virtual Network Settings.

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

-Name <System.String>

Name of Synapse workspace.

Required?	true
Position?	named
Default value	None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceGroupName <System.String>

Resource group name.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceId <System.String>

Resource identifier of Synapse workspace.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SqlAdministratorLoginPassword <System.Security.SecureString>

The new SQL administrator password for the workspace.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

A string,string dictionary of tags associated with the resource.

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

-UserAssignedIdentityAction

<Microsoft.Azure.Commands.Synapse.Models.SynapseConstants+UserAssignedManagedIdentityActionType>

Action must be specified when you add/remove/set user assigned managed identities for workspace. The supported actions are: Add Remove Set Add means to add user

assigned managed identities for workspace, Remove means to remove user assigned managed identities from workspace, Set can be used when you want to add and remove

user assigned managed identities at the same time.

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

-UserAssignedIdentityId <System.Collections.Generic.List`1[System.String]>

User assigned managed identity Id for workspace.

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

-UserAssignedIdentityInEncryption <System.String>

User assigned identity resource Id used in Workspace Encryption

Required? false

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

-UseSystemAssignedIdentityInEncryption <System.Object>

specifying whether to use system assigned identity in Workspace Encryption or not

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

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

OUTPUTS

Microsoft.Azure.Commands.Synapse.Models.PSSynapseWorkspace

NOTES

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

```
Update-AzSynapseWorkspace -Name ContosoWorkspace -Tag @{'key'='value'}
```

This commands updates tags for the specified Azure Synapse Analytics workspace.

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

```
$ws = Get-AzSynapseWorkspace -Name ContosoWorkspace  
$ws | Update-AzSynapseWorkspace -Tag @{'key'='value1'}
```

This commands updates tags for the specified Azure Synapse Analytics workspace through pipeline.

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

```
Update-AzSynapseWorkspace -ResourceId
```

```
/subscriptions/21686af7-58ec-4f4d-9c68-f431f4db4edd/resourceGroups/ContosoResourceGroup/providers/Microsoft.Synapse/workspaces/ContosoWorkspace -Tag @{'key'='value2'}
```

This commands updates tags for the specifid Azure Synapse Analytics workspace through pipeline with resource ID.

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

```
$config = New-AzSynapseGitRepositoryConfig -RepositoryType GitHub -AccountName ContosoAccount  
-RepositoryName ContosoRepo -CollaborationBranch main  
Update-AzSynapseWorkspace -Name ContosoWorkspace -GitRepository $config
```

This commands updates Git repository which workspace is conneceted to for the specifid Azure Synapse Analytics workspace.

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

```
Update-AzSynapseWorkspace -Name ContosoWorkspace -EnablePublicNetworkAccess $True
```

This commands updates the specifid Azure Synapse Analytics workspace to enable public network access.

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

```
$uamis = Get-AzUserAssignedIdentity -ResourceGroupName ContosoResourceGroup  
$uamillist = New-Object System.Collections.Generic.List[string]
```

```
foreach($uami in $uamis){
    $uamelist.Add($uami.Id)
}
```

```
Update-AzSynapseWorkspace -Name ContosoWorkspace -UserAssignedIdentityAction Add -UserAssignedIdentityId
$uamelist
```

This commands updates workspace to add user assigned managed identities in \$uamelist.

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

```
$uamis = Get-AzUserAssignedIdentity -ResourceGroupName ContosoResourceGroup
$uamelist = New-Object System.Collections.Generic.List[string]
foreach($uami in $uamis){
    $uamelist.Add($uami.Id)
}
```

```
Update-AzSynapseWorkspace -Name ContosoWorkspace -UserAssignedIdentityAction Remove -UserAssignedIdentityId
$uamelist[0]
```

This commands removes user assigned managed identities \$uamelist[0] from workspace.

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

```
$uamis = Get-AzUserAssignedIdentity -ResourceGroupName ContosoResourceGroup
$uamelist = New-Object System.Collections.Generic.List[string]
foreach($uami in $uamis){
    $uamelist.Add($uami.Id)
}
```

```
Update-AzSynapseWorkspace -Name ContosoWorkspace -UserAssignedIdentityAction Set -UserAssignedIdentityId
```

\$uamilst

This commands updates workspace with user assigned managed identities \$uamilst that will cover current identities.

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

##Add a temp key to the workspace

```
New-AzSynapseWorkspaceKey -ResourceGroupName ContosoResourceGroup -WorkspaceName ContosoWorkspace  
-Name TempKey -EncryptionKeyIdentifier  
https://contosoKeyVault.vault.azure.net/keys/TempKey
```

##Update the workspace and set the temp key as the TDE protector

```
Update-AzSynapseWorkspace -WorkspaceName ContosoWorkspace -EncryptionKeyName TempKey  
-UseSystemAssignedIdentityInEncryption $true
```

##Note, we need to create a new key version for the original encryption key of the Azure key vault before moving to next steps.

##Update the workspace and set the encryption key back after we created a new key version.

```
Update-AzSynapseWorkspace -WorkspaceName ContosoWorkspace -EncryptionKeyName default  
-UseSystemAssignedIdentityInEncryption $true
```

##Remove the temp key

```
Remove-AzSynapseWorkspaceKey -WorkspaceName ContosoWorkspace -Name TempKey
```

This commands demonstrate how to rotate the encryption key of a Synapse workspace, and it is using System Assigned Managed Identity to access the Azure Key Vault.

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

\$uamis = Get-AzUserAssignedIdentity -ResourceGroupName ContosoResourceGroup

```

$identityId = $uamis[0].Id

$ws = Get-AzSynapseWorkspace -Name ContosoWorkspace

$ws | Update-AzSynapseWorkspace -UseSystemAssignedIdentityInEncryption $false -UserAssignedIdentityInEncryption
$identityId

$ws = Get-AzSynapseWorkspace -Name ContosoWorkspace

$ws.Encryption.CustomerManagedKeyDetails.Key

Name    KeyVaultUrl
----
default https://contosoKeyValut.vault.azure.net/keys/testkey

$ws = Get-AzSynapseWorkspace -name ContosoWorkspace

$ws.Encryption.CustomerManagedKeyDetails.KekIdentity

UserAssignedIdentity
UseSystemAssignedIdentity
-----
-----

/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx/resourcegroups/ContosoResourceGroup/providers/Microsoft.Manage
dIdentity/userAssignedIdentities/uaminame

False

```

This commands updates workspace Encryption Managed Identity as User Assigned and specify an user assigned identity Id to access your customer-managed key stored in key vault. After updating, we can call `Get-AzSynapseWorkspace` to get Encryption properties of workspace.

RELATED LINKS

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

