



## ***Windows PowerShell Get-Help on Cmdlet 'New-AzSynapseWorkspace'***

***PS: \>Get-HELP New-AzSynapseWorkspace -Full***

### NAME

New-AzSynapseWorkspace

### SYNOPSIS

Creates a Synapse Analytics workspace.

### SYNTAX

```

New-AzSynapseWorkspace [-AsJob] -DefaultDataLakeStorageAccountName <System.String>
-DefaultDataLakeStorageFilesystem <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnablePublicNetworkAccess <System.Boolean>] [-EncryptionKeyIdentifier
<System.String>] [-EncryptionKeyName <System.String>] [-GitRepository
<Microsoft.Azure.Commands.Synapse.Models.PSWorkspaceRepositoryConfiguration>] -Location
<System.String> [-ManagedResourceGroupName <System.String>] [-ManagedVirtualNetwork
<Microsoft.Azure.Commands.Synapse.Models.PSManagedVirtualNetworkSettings>] -Name
<System.String> -ResourceGroupName <System.String> -SqlAdministratorLoginCredential
<System.Management.Automation.PSCredential> [-Tag <System.Collections.Hashtable>]
[-UserAssignedIdentityId <System.Collections.Generic.List`1[System.String]>] [-UserAssignedIdentityInEncryption
<System.String>]

```

`[-UseSystemAssignedIdentityInEncryption <System.Object>] [-Confirm] [-WhatIf] [<CommonParameters>]`

## DESCRIPTION

The `New-AzSynapseWorkspace` cmdlet creates an Azure Synapse Analytics workspace.

## PARAMETERS

`-AsJob <System.Management.Automation.SwitchParameter>`

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

`-DefaultDataLakeStorageAccountName <System.String>`

The default ADLS Gen2 storage account name.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

`-DefaultDataLakeStorageFilesystem <System.String>`

The default ADLS Gen2 file system.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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

-EncryptionKeyIdentifier <System.String>

Key identifier should be in the format of: https://{keyvaultname}.vault.azure.net/keys/{keyname}.

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

-Location <System.String>

Azure region where the resource should be created.

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

-ManagedResourceGroupName <System.String>

A container that holds ancillary resources. Created by default while the name can be specified. Note that this field must not be the same with ResourceGroupName

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

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

Name of a Synapse-managed virtual network dedicated for the Azure Synapse workspace.

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? True (ByPropertyName)

Accept wildcard characters? false

-ResourceGroupName <System.String>

Resource group name.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SqlAdministratorLoginCredential <System.Management.Automation.PSCredential>

SQL administrator credentials.

Required? true

Position? named

Default value           None

Accept pipeline input?    True (ByPropertyName)

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?    True (ByPropertyName)

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

<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

System.String

System.Collections.Hashtable

System.Management.Automation.PSCredential

## OUTPUTS

Microsoft.Azure.Commands.Synapse.Models.PSSynapseWorkspace

## NOTES

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

```
$password = ConvertTo-SecureString "Password123!" -AsPlainText -Force
```

```
$creds = New-Object System.Management.Automation.PSCredential ("ContosoUser", $password)
```

```
New-AzSynapseWorkspace -ResourceGroupName ContosoResourceGroup -Name ContosoWorkspace -Location  
northeurope -DefaultDataLakeStorageAccountName ContosoAdlGen2Storage  
-DefaultDataLakeStorageFilesystem ContosoFilesystem -SqlAdministratorLoginCredential $creds
```

This command creates a Synapse Analytics workspace named ContosoWorkspace that uses the ContosoAdlGenStorage Data Store, in the resource group named ContosoResourceGroup.

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

```

$config = New-AzSynapseManagedVirtualNetworkConfig -PreventDataExfiltration -AllowedAadTenantIdsForLinking
ContosoTenantId

$password = ConvertTo-SecureString "Password123!" -AsPlainText -Force

$creds = New-Object System.Management.Automation.PSCredential ("ContosoUser", $password)

New-AzSynapseWorkspace -ResourceGroupName ContosoResourceGroup -Name ContosoWorkspace -Location
northeurope -DefaultDataLakeStorageAccountName ContosoAdlGen2Storage

-DefaultDataLakeStorageFilesystem ContosoFilesystem -SqlAdministratorLoginCredential $creds

-MangedVirtualNetwork $config

```

The first command creates a managed virtual network configuration. Then the rest methods uses the configuration to creates a new Synapse workspace.

### ----- Example 3 -----

```

$config = New-AzSynapseManagedVirtualNetworkConfig -PreventDataExfiltration -AllowedAadTenantIdsForLinking
ContosoTenantId

$password = ConvertTo-SecureString "Password123!" -AsPlainText -Force

$creds = New-Object System.Management.Automation.PSCredential ("ContosoUser", $password)

New-AzSynapseWorkspace -ResourceGroupName ContosoResourceGroup -Name ContosoWorkspace -Location
northeurope -DefaultDataLakeStorageAccountName ContosoAdlGen2Storage

-DefaultDataLakeStorageFilesystem ContosoFilesystem -SqlAdministratorLoginCredential $creds

-MangedVirtualNetwork $config -EnablePublicNetworkAccess $True

```

The first command creates a managed virtual network configuration. Then the rest methods uses the configuration to creates a new Synapse workspace with enabled managed virtual network and enabled public network access.

### ----- Example 4 -----

```

$password = ConvertTo-SecureString "Password123!" -AsPlainText -Force

```

```
$creds = New-Object System.Management.Automation.PSCredential ("ContosoUser", $password)

$config = New-AzSynapseGitRepositoryConfig -RepositoryType GitHub -AccountName ContosoAccount
-RepositoryName ContosoRepo -CollaborationBranch main

New-AzSynapseWorkspace -ResourceGroupName ContosoResourceGroup -Name ContosoWorkspace -Location
northeurope -DefaultDataLakeStorageAccountName ContosoAdlGen2Storage

-DefaultDataLakeStorageFileSystem ContosoFileSystem -SqlAdministratorLoginCredential $creds -GitRepository $config
```

This command creates a Synapse Analytics workspace named ContosoWorkspace that uses the ContosoAdlGenStorage Data Store, in the resource group named ContosoResourceGroup. And the workspace is connected to a Git Repository called ContosoRepo.

#### ----- Example 5 -----

```
$password = ConvertTo-SecureString "Password123!" -AsPlainText -Force

$creds = New-Object System.Management.Automation.PSCredential ("ContosoUser", $password)

$uamis = Get-AzUserAssignedIdentity -ResourceGroupName ContosoResourceGroup

$uamelist = New-Object System.Collections.Generic.List[string]

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

New-AzSynapseWorkspace -ResourceGroupName ContosoResourceGroup -Name ContosoWorkspace -Location
northeurope -DefaultDataLakeStorageAccountName ContosoAdlGen2Storage

-DefaultDataLakeStorageFileSystem ContosoFileSystem -SqlAdministratorLoginCredential $creds
-UserAssignedIdentityId $uamelist
```

This command creates a Synapse Analytics workspace named ContosoWorkspace that uses the ContosoAdlGenStorage Data Store, in the resource group named ContosoResourceGroup, and add user assigned managed identities that get from ResourceGroup ContosoResourceGroup to workspace.

#### ----- Example 6 -----

```
New-AzSynapseWorkspace -ResourceGroupName ContosoResourceGroup -Name ContosoWorkspace -Location
northeurope -DefaultDataLakeStorageAccountName ContosoAdlGen2Storage
-DefaultDataLakeStorageFileSystem ContosoFileSystem -SqlAdministratorLoginCredential $creds
-EncryptionKeyIdIdentifier $identifier
```

```
-UseSystemAssignedIdentityInEncryption $true
```

```
$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
```

```
-----
```

```
True
```

This command creates a Synapse Analytics workspace named ContosoWorkspace that uses the ContosoAdlGenStorage Data Store, in the resource group named

ContosoResourceGroup, and enable double encryption with customer-managed key with specified key identifier and set Managed Identity as System Assigned. After

creation, we can call `Get-AzSynapseWorkspace` to get Encryption properties of workspace.

## RELATED LINKS

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