



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

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

NAME

Update-AzSynapseSparkPool

SYNOPSIS

Updates a Apache Spark pool in Azure Synapse Analytics.

SYNTAX

```
Update-AzSynapseSparkPool [-AsJob] [-AutoPauseDelayInMinute <System.Int32>] [-AutoScaleMaxNodeCount
<System.Int32>] [-AutoScaleMinNodeCount <System.Int32>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableAutoPause <System.Nullable`1[System.Boolean]>]
[-EnableAutoScale <System.Nullable`1[System.Boolean]>] [-EnableDynamicExecutorAllocation
<System.Nullable`1[System.Boolean]>] [-EnableIsolatedCompute
<System.Nullable`1[System.Boolean]>] [-ForceApplySetting] [-InputObject
<Microsoft.Azure.Commands.Synapse.Models.PSSynapseSparkPool>] [-LibraryRequirementsFilePath
<System.String>] [-MaxExecutorCount <System.Int32>] [-MinExecutorCount <System.Int32>] [-NodeCount
<System.Int32>] [-NodeSize {Small | Medium | Large | XLarge |
XXLarge | XXXLarge}] [-Package
<System.Collections.Generic.List`1[Microsoft.Azure.Commands.Synapse.Models.WorkspacePackages.PSSynapseWorkspacePackage]>]
```

acePackage]>]

[-PackageAction {Add | Remove | Set}] [-SparkConfiguration

<Microsoft.Azure.Commands.Synapse.Models.PSSparkConfigurationResource>] [-SparkVersion <System.String>]

[-Tag <System.Collections.Hashtable>] [-Confirm] [-WhatIf] [<CommonParameters>]

Update-AzSynapseSparkPool [-AsJob] [-AutoPauseDelayInMinute <System.Int32>] [-AutoScaleMaxNodeCount
<System.Int32>] [-AutoScaleMinNodeCount <System.Int32>]

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

[-EnableAutoPause <System.Nullable`1[System.Boolean]>]

[-EnableAutoScale <System.Nullable`1[System.Boolean]>] [-EnableDynamicExecutorAllocation

<System.Nullable`1[System.Boolean]>] [-EnableIsolatedCompute

<System.Nullable`1[System.Boolean]>] [-ForceApplySetting] [-LibraryRequirementsFilePath <System.String>]

[-MaxExecutorCount <System.Int32>] [-MinExecutorCount

<System.Int32>] -Name <System.String> [-NodeCount <System.Int32>] [-NodeSize {Small | Medium | Large | XLarge |
XXLarge | XXXLarge}] [-Package

<System.Collections.Generic.List`1[Microsoft.Azure.Commands.Synapse.Models.WorkspacePackages.PSSynapseWorksp
acePackage]>] [-PackageAction {Add | Remove | Set}]

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

<Microsoft.Azure.Commands.Synapse.Models.PSSparkConfigurationResource>] [-SparkVersion <System.String>]

[-Tag <System.Collections.Hashtable>] -WorkspaceName <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Update-AzSynapseSparkPool [-AsJob] [-AutoPauseDelayInMinute <System.Int32>] [-AutoScaleMaxNodeCount
<System.Int32>] [-AutoScaleMinNodeCount <System.Int32>]

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

[-EnableAutoPause <System.Nullable`1[System.Boolean]>]

[-EnableAutoScale <System.Nullable`1[System.Boolean]>] [-EnableDynamicExecutorAllocation

<System.Nullable`1[System.Boolean]>] [-EnableIsolatedCompute

<System.Nullable`1[System.Boolean]>] [-ForceApplySetting] [-LibraryRequirementsFilePath <System.String>]

[-MaxExecutorCount <System.Int32>] [-MinExecutorCount

<System.Int32>] -Name <System.String> [-NodeCount <System.Int32>] [-NodeSize {Small | Medium | Large | XLarge |
XXLarge | XXXLarge}] [-Package

```

<System.Collections.Generic.List`1[Microsoft.Azure.Commands.Synapse.Models.WorkspacePackages.PSSynapseWorksp
acePackage]>] [-PackageAction {Add | Remove | Set}]

    [-SparkConfiguration <Microsoft.Azure.Commands.Synapse.Models.PSSparkConfigurationResource>] [-SparkVersion
<System.String>] [-Tag <System.Collections.Hashtable>]

        -WorkspaceObject <Microsoft.Azure.Commands.Synapse.Models.PSSynapseWorkspace> [-Confirm] [-WhatIf]
[<CommonParameters>]

Update-AzSynapseSparkPool [-AsJob] [-AutoPauseDelayInMinute <System.Int32>] [-AutoScaleMaxNodeCount
<System.Int32>] [-AutoScaleMinNodeCount <System.Int32>]

    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableAutoPause <System.Nullable`1[System.Boolean]>]

        [-EnableAutoScale <System.Nullable`1[System.Boolean]>] [-EnableDynamicExecutorAllocation
<System.Nullable`1[System.Boolean]>] [-EnableIsolatedCompute
<System.Nullable`1[System.Boolean]>] [-ForceApplySetting] [-LibraryRequirementsFilePath <System.String>]
[-MaxExecutorCount <System.Int32>] [-MinExecutorCount
<System.Int32>] [-NodeCount <System.Int32>] [-NodeSize {Small | Medium | Large | XLarge | XXLarge | XXXLarge}]
[-Package

```

```

<System.Collections.Generic.List`1[Microsoft.Azure.Commands.Synapse.Models.WorkspacePackages.PSSynapseWorksp
acePackage]>] [-PackageAction {Add | Remove | Set}]

        -ResourceId <System.String> [-SparkConfiguration
<Microsoft.Azure.Commands.Synapse.Models.PSSparkConfigurationResource>] [-SparkVersion <System.String>] [-Tag
<System.Collections.Hashtable>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

The Update-AzSynapseSparkPool cmdlet updates an Apache Spark pool in Azure Synapse Analytics.

> [!NOTE] > If the `-SparkVersion`` parameter is used to upgrade the Synapse Spark runtime version, ensure that the Spark pool doesn't have any attached custom libraries or packages. Refer to Migration between Apache Spark versions

versions---support)for more details.

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

-AutoPauseDelayInMinute <System.Int32>

Number of minutes idle. This parameter can be specified when Auto-pause is enabled. The default value will be [15] if it is not specified manually.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AutoScaleMaxNodeCount <System.Int32>

Maximum number of nodes to be allocated in the specified Spark pool. This parameter must be specified when Auto-scale is enabled.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AutoScaleMinNodeCount <System.Int32>

Minimum number of nodes to be allocated in the specified Spark pool. This parameter must be specified when Auto-scale is enabled.

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

-EnableAutoPause <System.Nullable`1[System.Boolean]>

Indicates whether Auto-pause should be enabled.

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

-EnableAutoScale <System.Nullable`1[System.Boolean]>

Indicates whether Auto-scale should be enabled

Required?	false
Position?	named

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

`-EnableDynamicExecutorAllocation <System.Nullable`1[System.Boolean]>`

Indicates whether dynamic executor allocation should be enabled.

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

`-EnableIsolatedCompute <System.Nullable`1[System.Boolean]>`

The Isolate Compute option is only available with the XXXLarge (80 vCPU / 504 GB) node size. Enabling this option offers isolation for Apache Spark compute for

untrusted services. Isolated compute costs the same as the non-isolated VM of the same size. If you expect to enable Isolated Compute for spark pool, ensure that

your Synapse workspace is created in an isolated compute supported region, please refer to this document for more details:

<https://learn.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-pool-configurations#isolated-compute>.

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

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

Whether to stop any running jobs in the Big Data pool.

Required? false
Position? named

Default value False
Accept pipeline input? False
Accept wildcard characters? false

-InputObject <Microsoft.Azure.Commands.Synapse.Models.PSSynapseSparkPool>

Spark pool input object, usually passed through the pipeline.

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

-LibraryRequirementsFilePath <System.String>

Environment configuration file ("PIP freeze" output).

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

-MaxExecutorCount <System.Int32>

Maximum number of executors to be allocated in the specified Spark pool. This parameter can be specified when DynamicExecutorAllocation is enabled. The value

should lie between 1 (inclusive) and maximumNodeCount (exclusive). If it is not specified manually, the default value will be 2.

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

-MinExecutorCount <System.Int32>

Minimum number of executors to be allocated in the specified Spark pool. This parameter can be specified when DynamicExecutorAllocation is enabled. The value

should lie between 1 (inclusive) and maxExecutors (exclusive). If it is not specified manually, the default value will be 1.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Name of Synapse Spark pool.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NodeCount <System.Int32>

Number of nodes to be allocated in the specified Spark pool.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NodeSize <System.String>

Number of core and memory to be used for nodes allocated in the specified Spark pool. This parameter must be specified when Auto-scale is disabled

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

-Package

<System.Collections.Generic.List`1[Microsoft.Azure.Commands.Synapse.Models.WorkspacePackages.PSSynapseWorkspacePackage]>

The workspace packages.

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

-PackageAction <Microsoft.Azure.Commands.Synapse.Models.SynapseConstants+PackageActionType>

Package action must be specified when you add or remove a workspace package from a Apache Spark pool.

Required? false
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 Spark pool.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SparkConfiguration <Microsoft.Azure.Commands.Synapse.Models.PSSparkConfigurationResource>

Apache Spark configuration. When a job is submitted to the pool, the properties specified in the selected configuration will be referenced.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SparkVersion <System.String>

Apache Spark version. Allowed values: 3.1,3.2,3.3

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

-WorkspaceName <System.String>

Name of Synapse workspace.

Required? true
Position? named
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

-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.PSSynapseSparkPool

OUTPUTS

Microsoft.Azure.Commands.Synapse.Models.PSSynapseSparkPool

NOTES

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -Tag @{"key" = "value"}  
-NodeCount 5 -NodeSize Medium
```

This command updates an Apache Spark pool in Azure Synapse Analytics.

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

```
$pool = Get-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool  
$pool | Update-AzSynapseSparkPool -Tag @{"key" = "value1"}
```

This command updates an Apache Spark pool in Azure Synapse Analytics through pipeline.

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

```
$ws = Get-AzSynapseWorkspace -Name ContosoWorkspace  
$ws | Update-AzSynapseSparkPool -Name ContosoSparkPool -Tag @{"key" = "value2"}
```

This command updates an Apache Spark pool in Azure Synapse Analytics through pipeline.

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

```
Update-AzSynapseSparkPool -ResourceId  
/subscriptions/21686af7-58ec-4f4d-9c68-f431f4db4edd/resourceGroups/ContosoResourceGroup/providers/Microsoft.Synap  
se/workspaces/ContosoWorkspace/bigDataPools/ContosoSparkPool -Tag @{"key" = "value3"}
```

This command updates an Apache Spark pool in Azure Synapse Analytics with resource ID.

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -EnableAutoScale $true  
-AutoScaleMinNodeCount 3 -AutoScaleMaxNodeCount 7
```

This command enables auto-scale for an Apache Spark pool in Azure Synapse Analytics.

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -EnableAutoScale $false
```

This command disables auto-scale for an Apache Spark pool in Azure Synapse Analytics.

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -EnableAutoPause $true  
-AutoPauseDelayInMinute 15
```

This command enables auto-pause for an Apache Spark pool in Azure Synapse Analytics.

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -EnableAutoPause  
$false
```

This command disables auto-pause for an Apache Spark pool in Azure Synapse Analytics.

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool  
-EnableDynamicExecutorAllocation $true -MinExecutorCount 1 -MaxExecutorCount 5
```

This command enables dynamic executor allocation and specify min executor count and max executor count for an Apache Spark pool in Azure Synapse Analytics.

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

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool  
-EnableDynamicExecutorAllocation $false
```

This command disables dynamic executor allocation for an Apache Spark pool in Azure Synapse Analytics.

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

```
$packages = Get-AzSynapseWorkspacePackage -WorkspaceName ContosoWorkspace  
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -PackageAction Add  
-Package $packages
```

The first command retrieves workspace packages. The second command links these workspace packages to an Apache Spark pool in Azure Synapse Analytics.

----- Example 12 -----

```
$package = Get-AzSynapseWorkspacePackage -WorkspaceName ContosoWorkspace -Name ContosoPackage  
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -PackageAction Remove  
-Package $package
```

The first command retrieves workspace packages named ContosoPackage. The second command removes the workspace package from an Apache Spark pool in Azure Synapse Analytics.

----- Example 13 -----

```
$pool = Get-AzSynapseSparkPool -ResourceGroupName ContosoResourceGroup -WorkspaceName ContosoWorkspace -Name ContosoSparkPool  
$pool | Update-AzSynapseSparkPool -PackageAction Remove -Package $pool.WorkspacePackages
```

The first command retrieves an Apache Spark pool in Azure Synapse Analytics. The second command removes all workspace packages that are linked to that Apache Spark pool.

----- Example 14 -----

```
$workspace_packages = Get-AzSynapseWorkspacePackage -WorkspaceName ContosoWorkspace  
  
$pool = Get-AzSynapseSparkPool -ResourceGroupName ContosoResourceGroup -WorkspaceName ContosoWorkspace -Name ContosoSparkPool  
  
$library_names = $pool.WorkspacePackages | Where-Object {$_.name -notlike "new_package-*"} | ForEach-Object {$_.name}  
$library_names += "new_package-2.0-py3-none-any.whl"  
  
$new_pool_packages = @($workspace_packages | Where-Object {$_.name -in $library_names})  
  
Update-AzSynapseSparkPool -ResourceGroupName ContosoResourceGroup -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -PackageAction Set -Package $new_pool_packages
```

The first command retrieves the packages available in the workspace. The second command group retrieves the spark pool to get the packages currently linked to this

pool and removes all versions of the package starting with `new\_package-` from the retrieved list. The new version of the

package is then added to this list. In the

third group of commands the package list, containing only package names, is transformed into a list of workspace packages by filtering the list of available

workspace_packages accordingly and is then linked to the spark pool.

----- Example 15 -----

```
$config = Get-AzSynapseSparkConfiguration -WorkspaceName ContosoWorkspace -Name ContosoSparkConfig1  
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -Tag @{"key" = "value"}  
-NodeCount 5 -NodeSize Medium -SparkConfiguration $configs
```

This command updates an Apache Spark pool in Azure Synapse Analytics and specify a Spark configuration for the Spark pool.

----- Example 16 -----

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -NodeSize small  
-ForceApplySetting
```

This command updates an Apache Spark pool in Azure Synapse Analytics, set NodeSize to small for the spark pool and force stop any running jobs in the Spark pool to

apply this new setting.

----- Example 17 -----

```
$pool = Get-AzSynapseSparkPool -ResourceGroupName ContosoResourceGroup -WorkspaceName  
ContosoWorkspace -Name ContosoSparkPool  
$pool | Update-AzSynapseSparkPool -PackageAction Remove -Package $pool.WorkspacePackages -ForceApplySetting
```

The first command retrieves an Apache Spark pool in Azure Synapse Analytics. The second command removes all

workspace packages that are linked to that Apache Spark

pool and force stop any running jobs in the Spark pool to apply this new setting.

----- Example 18 -----

```
Update-AzSynapseSparkPool -WorkspaceName ContosoWorkspace -Name ContosoSparkPool -EnableIsolatedCompute  
$true -NodeSize XXXLarge
```

This command enables isolated compute and specify node size to XXXLarge(80 vCPU / 504 GB) for an Apache Spark pool in Azure Synapse Analytics.

RELATED LINKS

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