



Windows PowerShell Get-Help on Cmdlet 'Submit-AzSynapseSparkJob'

PS: \> Get-HELP Submit-AzSynapseSparkJob -Full

NAME

Submit-AzSynapseSparkJob

SYNOPSIS

Submits a Synapse Analytics Spark job.

SYNTAX

```
Submit-AzSynapseSparkJob [-CommandLineArgument <System.String[]>] [-Configuration
<System.Collections.Hashtable>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -ExecutorCount
<System.Int32> -ExecutorSize {Small | Medium | Large |
XLarge | XXLarge | XXXLarge} -Language {Spark | Scala | PySpark | Python | SparkDotNet | CSharp} [-MainClassName
<System.String>] -MainDefinitionFile <System.String>
-Name <System.String> [-ReferenceFile <System.String[]>] -SparkPoolName <System.String> -WorkspaceName
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]
```

```
Submit-AzSynapseSparkJob [-CommandLineArgument <System.String[]>] [-Configuration
<System.Collections.Hashtable>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -ExecutorCount
```

<System.Int32> -ExecutorSize {Small | Medium | Large |
 XLarge | XXLarge | XXXLarge} -Language {Spark | Scala | PySpark | Python | SparkDotNet | CSharp} [-MainClassName
 <System.String>] -MainDefinitionFile <System.String>
 -Name <System.String> [-ReferenceFile <System.String[]>] -SparkPoolObject
 <Microsoft.Azure.Commands.Synapse.Models.PSSynapseSparkPool> [-Confirm] [-WhatIf]
 [<CommonParameters>]

DESCRIPTION

The Submit-AzSynapseSparkJob cmdlet submits a Synapse Analytics Spark job.

PARAMETERS

-CommandLineArgument <System.String[]>

Optional arguments to the job. e.g. "--iteration 10000 --timeout 20s"

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Configuration <System.Collections.Hashtable>

Spark configuration properties.

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

-ExecutorCount <System.Int32>

Number of executors to be allocated in the specified Spark pool for the job.

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

-ExecutorSize <System.String>

Number of core and memory to be used for executors allocated in the specified Spark pool for the job.

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

-Language <System.String>

Language of the job to submit.

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

-MainClassName <System.String>

The fully-qualified identifier or the main class that is in the main definition file. Required for Spark and .NET Spark job.

e.g.

"org.apache.spark.examples.SparkPi"

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-MainDefinitionFile <System.String>

The main file used for the job. e.g. "abfss://filesystem@account.dfs.core.windows.net/mySpark.jar"

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Name of Spark job.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ReferenceFile <System.String[]>

Additional files used for reference in the main definition file. Comma-separated storage URI list. e.g.

"abfss://filesystem@account.dfs.core.windows.net/file1.txt,abfss://filesystem@account.dfs.core.windows.net/result"

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

-SparkPoolName <System.String>

Name of Synapse Spark pool.

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

-SparkPoolObject <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

-WorkspaceName <System.String>

Name of Synapse workspace.

Required? true
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.PSSynapseSparkPool

OUTPUTS

Microsoft.Azure.Commands.Synapse.Models.PSSynapseSparkJob

NOTES

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

```
Submit-AzSynapseSparkJob -WorkspaceName ContosoWorkspace -SparkPoolName ContosoSparkPool -Language
Spark -Name WordCount_Java -MainDefinitionFile
    abfss://ContosoFileSystem@ContosoGen2Storage.dfs.core.windows.net/samples/java/wordcount/wordcount.jar
-MainClassName WordCount -CommandLineArgument abfss://ContosoFil
eSystem@ContosoGen2Storage.dfs.core.windows.net/samples/java/wordcount/shakespeare.txt,abfss://ContosoFileSystem
@ContosoGen2Storage.dfs.core.windows.net/samples/java/w
ordcount/result/ -ExecutorCount 2 -ExecutorSize Small
```

This command submits a Synapse Analytics Spark job.

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

```
Submit-AzSynapseSparkJob -WorkspaceName ContosoWorkspace -SparkPoolName ContosoSparkPool -Language
SparkDotNet -Name WordCount_Dotnet -MainDefinitionFile
    abfss://ContosoFileSystem@ContosoGen2Storage.dfs.core.windows.net/samples/dotnet/wordcount/wordcount.zip
-MainExecutableFile WordCount -CommandLineArgument abfss://Con
tosoFileSystem@ContosoGen2Storage.dfs.core.windows.net/samples/dotnet/wordcount/shakespeare.txt,abfss://ContosoFil
eSystem@ContosoGen2Storage.dfs.core.windows.net/sampl
es/dotnet/wordcount/result -ExecutorCount 2 -ExecutorSize Small
```

This command submits a Synapse Analytics Spark .NET job.

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

```
Submit-AzSynapseSparkJob -WorkspaceName ContosoWorkspace -SparkPoolName ContosoSparkPool -Language
PySpark -Name WordCount_Python -MainDefinitionFile
    abfss://ContosoFileSystem@ContosoGen2Storage.blob.core.windows.net/samples/python/wordcount/wordcount.py
-CommandLineArgument abfss://ContosoFileSystem@ContosoGen2Storage.blob.core.windows.net/samples/python/wordcount/shakespeare.txt,abfss://ContosoFileSystem@ContosoGen2Storage.
blob.core.windows.net/samples/python/wordcount/result/
-ExecutorCount 2 -ExecutorSize Small
```

This command submits a Synapse Analytics PySpark job.

RELATED LINKS

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