



Windows PowerShell Get-Help on Cmdlet 'New-AzBatchTask'

PS: \>Get-HELP New-AzBatchTask -Full

NAME

New-AzBatchTask

SYNOPSIS

Creates a Batch task under a job.

SYNTAX

```
New-AzBatchTask [-AffinityInformation <Microsoft.Azure.Commands.Batch.Models.PSAffinityInformation>]
[-ApplicationPackageReferences
<Microsoft.Azure.Commands.Batch.Models.PSApplicationPackageReference[]>] [-AuthenticationTokenSettings
<Microsoft.Azure.Commands.Batch.Models.PSAuthenticationTokenSettings>] [-BatchContext
<Microsoft.Azure.Commands.Batch.BatchAccountContext>] -CommandLine <System.String>
[-Constraints <Microsoft.Azure.Commands.Batch.Models.PSTaskConstraints>] [-ContainerSettings
<Microsoft.Azure.Commands.Batch.Models.PSTaskContainerSettings>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DependsOn <Microsoft.Azure.Batch.TaskDependencies>]
[-DisplayName <System.String>] [-EnvironmentSettings <System.Collections.IDictionary>] [-ExitConditions
<Microsoft.Azure.Commands.Batch.Models.PSExitConditions>] -Id
<System.String> -JobId
<System.String> [-MultiInstanceSettings
```

```

<Microsoft.Azure.Commands.Batch.Models.PSMultiInstanceSettings>] [-OutputFile
                                <Microsoft.Azure.Commands.Batch.Models.PSOutputFile[]>]          [-ResourceFiles
<Microsoft.Azure.Commands.Batch.Models.PSResourceFile[]>] [-UserIdentity
    <Microsoft.Azure.Commands.Batch.Models.PSUserIdentity>] [<CommonParameters>]

New-AzBatchTask [-AffinityInformation <Microsoft.Azure.Commands.Batch.Models.PSAffinityInformation>]
[-ApplicationPackageReferences
    <Microsoft.Azure.Commands.Batch.Models.PSApplicationPackageReference[]>] [-AuthenticationTokenSettings
    <Microsoft.Azure.Commands.Batch.Models.PSAuthenticationTokenSettings>]          -BatchContext
<Microsoft.Azure.Commands.Batch.BatchAccountContext> -CommandLine <System.String>
    [-Constraints <Microsoft.Azure.Commands.Batch.Models.PSTaskConstraints>]          [-ContainerSettings
<Microsoft.Azure.Commands.Batch.Models.PSTaskContainerSettings>]
    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DependsOn <Microsoft.Azure.Batch.TaskDependencies>]
    [-DisplayName <System.String>] [-EnvironmentSettings <System.Collections.IDictionary>] [-ExitConditions
<Microsoft.Azure.Commands.Batch.Models.PSExitConditions>] -Id
    <System.String> [-Job <Microsoft.Azure.Commands.Batch.Models.PSCloudJob>] [-MultiInstanceSettings
<Microsoft.Azure.Commands.Batch.Models.PSMultiInstanceSettings>]
    [-OutputFile <Microsoft.Azure.Commands.Batch.Models.PSOutputFile[]>]          [-ResourceFiles
<Microsoft.Azure.Commands.Batch.Models.PSResourceFile[]>] [-UserIdentity
    <Microsoft.Azure.Commands.Batch.Models.PSUserIdentity>] [<CommonParameters>]

New-AzBatchTask -BatchContext <Microsoft.Azure.Commands.Batch.BatchAccountContext> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Job
<Microsoft.Azure.Commands.Batch.Models.PSCloudJob>] [-Tasks
    <Microsoft.Azure.Commands.Batch.Models.PSCloudTask[]>] [<CommonParameters>]

New-AzBatchTask -BatchContext <Microsoft.Azure.Commands.Batch.BatchAccountContext> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -JobId
<System.String> [-Tasks
    <Microsoft.Azure.Commands.Batch.Models.PSCloudTask[]>] [<CommonParameters>]

```

DESCRIPTION

The New-AzBatchTask cmdlet creates an Azure Batch task under the job specified by the JobId parameter or the Job parameter.

PARAMETERS

-AffinityInformation <Microsoft.Azure.Commands.Batch.Models.PSAffinityInformation>

Specifies a locality hint that the Batch service uses to select a node on which to run the task.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ApplicationPackageReferences <Microsoft.Azure.Commands.Batch.Models.PSApplicationPackageReference[]>

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AuthenticationTokenSettings <Microsoft.Azure.Commands.Batch.Models.PSAuthenticationTokenSettings>

The settings for an authentication token that the task can use to perform Batch service operations. If this is set, the Batch service provides the task with an

authentication token which can be used to authenticate Batch service operations without requiring an account access key. The token is provided via the

AZ_BATCH_AUTHENTICATION_TOKEN environment variable. The operations that the task can carry out using the token depend on the settings. For example, a task can

request job permissions in order to add other tasks to the job, or check the status of the job or of other tasks.

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

-BatchContext <Microsoft.Azure.Commands.Batch.BatchAccountContext>

Specifies the BatchAccountContext instance that this cmdlet uses to interact with the Batch service. If you use the Get-AzBatchAccount cmdlet to get your

BatchAccountContext, then Microsoft Entra authentication will be used when interacting with the Batch service. To use shared key authentication instead, use the

Get-AzBatchAccountKey cmdlet to get a BatchAccountContext object with its access keys populated. When using shared key authentication, the primary access key is used by default. To change the key to use, set the BatchAccountContext.KeyInUse property.

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

-CommandLine <System.String>

Specifies the command line for the task.

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

-Constraints <Microsoft.Azure.Commands.Batch.Models.PSTaskConstraints>

Specifies the execution constraints that apply to this task.

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

-ContainerSettings <Microsoft.Azure.Commands.Batch.Models.PSTaskContainerSettings>

The settings for the container under which the task runs. If the pool that will run this task has containerConfiguration set, this must be set as well. If the

pool that will run this task doesn't have containerConfiguration set, this must not be set. When this is specified, all directories recursively below the

AZ_BATCH_NODE_ROOT_DIR (the root of Azure Batch directories on the node) are mapped into the container, all task environment variables are mapped into the container, and the task command line is executed in the container.

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

-DependsOn <Microsoft.Azure.Batch.TaskDependencies>

Specifies that the task depends on other tasks. The task will not be scheduled until all depended-on tasks have completed successfully.

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

-DisplayName <System.String>

Specifies the display name of the task.

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

-EnvironmentSettings <System.Collections.IDictionary>

Specifies the environment settings, as key/value pairs, that this cmdlet adds to the task. The key is the environment setting name. The value is the environment setting.

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

-ExitConditions <Microsoft.Azure.Commands.Batch.Models.PSExitConditions>

Required? false
Position? named
Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Id <System.String>

Specifies the ID of the task.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Job <Microsoft.Azure.Commands.Batch.Models.PSCloudJob>

Specifies the job under which this cmdlet creates the task. To obtain a PSCloudJob object, use the Get-AzBatchJob cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-JobId <System.String>

Specifies the ID of the job under which this cmdlet creates the task.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-MultiInstanceSettings <Microsoft.Azure.Commands.Batch.Models.PSMultiInstanceSettings>

Specifies information about how to run a multi-instance task.

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

-OutputFile <Microsoft.Azure.Commands.Batch.Models.PSOutputFile[]>

Gets or sets a list of files that the Batch service will upload from the compute node after running the command line. For multi-instance tasks, the files will only be uploaded from the compute node on which the primary task is executed.

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

-ResourceFiles <Microsoft.Azure.Commands.Batch.Models.PSResourceFile[]>

Specifies resource files, as key/value pairs, that the task requires. The key is the resource file path. The value is the resource file blob source.

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

-Tasks <Microsoft.Azure.Commands.Batch.Models.PSCloudTask[]>

Specifies the collection of tasks to be added. Each task must have a unique ID.

Required? false
Position? named

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

-UserIdentity <Microsoft.Azure.Commands.Batch.Models.PSUserIdentity>

The user identity under which the task runs.

Required? false
Position? named
Default value None
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.Batch.Models.PSCloudJob

Microsoft.Azure.Commands.Batch.BatchAccountContext

OUTPUTS

System.Void

----- Example 1: Create a Batch task -----

```
New-AzBatchTask -JobId "Job-000001" -Id "Task23" -CommandLine "cmd /c dir /s" -BatchContext $Context
```

This command creates a task that has the ID Task23 under the job that has the ID Job-000001. The task runs the specified command. Use the Get-AzBatchAccountKey cmdlet to assign a context to the \$Context variable.

----- Example 2: Create a Batch task -----

```
$autoUser = New-Object Microsoft.Azure.Commands.Batch.Models.PSAutoUserSpecification -ArgumentList @("Task",  
"Admin")  
$userIdentity = New-Object Microsoft.Azure.Commands.Batch.Models.PSUserIdentity $autoUser  
Get-AzBatchJob -Id "Job-000001" -BatchContext $Context | New-AzBatchTask -Id "Task26" -CommandLine "cmd /c echo  
hello > newFile.txt" -UserIdentity $userIdentity  
-BatchContext $Context
```

This command gets the Batch job that has the ID Job-000001 by using the Get-AzBatchJob cmdlet. The command passes that job to the current cmdlet by using the pipeline operator. The command creates a task that has the ID Task26 under that job. The task runs the specified command by using elevated permissions.

Example 3: Add a collection of tasks to the specified job by using the pipeline

```
$Context = Get-AzBatchAccountKey -AccountName "ContosoBatchAccount"  
$Task01 = New-Object Microsoft.Azure.Commands.Batch.Models.PSCloudTask("Task23", "cmd /c dir /s")  
$Task02 = New-Object Microsoft.Azure.Commands.Batch.Models.PSCloudTask("Task24", "cmd /c dir /s")
```

Page 10/13

```
Get-AzBatchJob -Id "Job-000001" -BatchContext $Context | New-AzBatchTask -Tasks @($Task01, $Task02)
-BatchContext $Context
```

The first command creates an object reference to the account keys for the batch account named ContosoBatchAccount by using Get-AzBatchAccountKey . The command stores

this object reference in the \$Context variable. The next two commands create PSCloudTask objects by using the New-Object cmdlet. The commands store the tasks in the

\$Task01 and \$Task02 variables. The final command gets the Batch job that has the ID Job-000001 by using Get-AzBatchJob . Then the command passes that job to the

current cmdlet by using the pipeline operator. The command adds a collection of tasks under that job. The command uses the context stored in \$Context.

-- Example 4: Add a collection of tasks to the specified job --

```
$Context = Get-AzBatchAccountKey -AccountName "ContosoBatchAccount"
$Task01 = New-Object Microsoft.Azure.Commands.Batch.Models.PSCloudTask("Task23", "cmd /c dir /s")
$Task02 = New-Object Microsoft.Azure.Commands.Batch.Models.PSCloudTask("Task24", "cmd /c dir /s")
New-AzBatchTask -JobId "Job-000001" -Tasks @($Task01, $Task02) -BatchContext $Context
```

The first command creates an object reference to the account keys for the batch account named ContosoBatchAccount by using Get-AzBatchAccountKey . The command stores

this object reference in the \$Context variable. The next two commands create PSCloudTask objects by using the New-Object cmdlet. The commands store the tasks in the

\$Task01 and \$Task02 variables. The final command adds the tasks stored in \$Task01 and \$Task02 under the job that has the ID Job-000001.

----- Example 5: Add a task with output files -----

```
New-AzBatchTask -JobId "Job-000001" -Id "Task23" -CommandLine "cmd /c dir /s" -BatchContext $Context

                                $blobContainerDestination                                =                                New-Object
Microsoft.Azure.Commands.Batch.Models.PSOutputFileBlobContainerDestination                                Page 11/13
```

```
"https://myaccount.blob.core.windows.net/sascontainer
```

```
?sv=2015-04-05&st=2015-04-29T22%3A18%3A26Z&se=2015-04-30T02%3A23%3A26Z&sr=b&sp=rw&spr=https&sig=Z%2FRHIX5Xcg0Mq2rql3OIWTjEg2tYkboXr1P9ZUXDtkk%3D"
```

```
$destination = New-Object Microsoft.Azure.Commands.Batch.Models.PSOutputFileDestination  
$blobContainerDestination  
  
$uploadOptions = New-Object Microsoft.Azure.Commands.Batch.Models.PSOutputFileUploadOptions "TaskSuccess"  
$outputFile = New-Object Microsoft.Azure.Commands.Batch.Models.PSOutputFile "*.txt", $blobContainerDestination,  
$uploadOptions
```

```
New-AzBatchTask -JobId "Job-000001" -Id "Task23" -CommandLine "cmd /c dir /s" -OutputFile $outputFile -BatchContext  
$Context
```

--- Example 6: Add a task with authentication token settings ---

```
$authSettings = New-Object Microsoft.Azure.Commands.Batch.Models.PSAuthenticationTokenSettings  
$authSettings.Access = "Job"  
  
New-AzBatchTask -JobId "Job-000001" -Id "Task23" -CommandLine "cmd /c dir /s" -AuthenticationTokenSettings  
$authSettings -BatchContext $Context
```

----- Example 7: Add a task which runs in a container -----

```
$Context = Get-AzBatchAccountKey -AccountName "ContosoBatchAccount"  
  
New-AzBatchTask -JobId "Job-000001" -Id "Task23" -CommandLine "cmd /c dir /s" -ContainerSettings (New-Object  
Microsoft.Azure.Commands.Batch.Models.PSTaskContainerSettings "containerImageName") -BatchContext $Context
```

RELATED LINKS

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

Get-AzBatchAccountKey

Get-AzBatchJob

Get-AzBatchTask

New-AzBatchTask

Remove-AzBatchTask

Stop-AzBatchTask

Azure Batch Cmdlets