



Windows PowerShell Get-Help on Cmdlet 'New-AzDataLakeGen2Item'

PS:\>Get-HELP New-AzDataLakeGen2Item -Full

NAME

New-AzDataLakeGen2Item

SYNOPSIS

Create a file or directory in a filesystem.

SYNTAX

```
New-AzDataLakeGen2Item [-FileSystem] <System.String> [-Path] <System.String> [-AsJob] [-ConcurrentTaskCount
<System.Nullable`1[System.Int32]>] [-Context
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Directory [-Force]
[-Metadata <System.Collections.Hashtable>] [-Permission
<System.String>] [-Property <System.Collections.Hashtable>] [-Umask <System.String>] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
New-AzDataLakeGen2Item [-FileSystem] <System.String> [-Path] <System.String> [-AsJob] [-ConcurrentTaskCount
<System.Nullable`1[System.Int32]>] [-Context
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EncryptionContext
```

<System.String>] [-Force] [-Metadata

<System.Collections.Hashtable>] [-Permission <System.String>] [-Property <System.Collections.Hashtable>] -Source

<System.String> [-Umask <System.String>] [-Confirm]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

The New-AzDataLakeGen2Item cmdlet creates a file or directory in a Filesystem in an Azure storage account. This cmdlet only works if Hierarchical Namespace is enabled

for the Storage account. This kind of account can be created by run "New-AzStorageAccount" cmdlet with "-EnableHierarchicalNamespace \$true".

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

-ConcurrentTaskCount <System.Nullable`1[System.Int32]>

The total amount of concurrent async tasks. The default value is 10.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Context <Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>

Azure Storage Context Object

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName, ByValue)
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

-Directory <System.Management.Automation.SwitchParameter>

Indicates that this new item is a directory and not a file.

Required? true
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-EncryptionContext <System.String>

Encryption context of the file. Encryption context is metadata that is not encrypted when stored on the file. The primary application of this field is to store

non-encrypted data that can be used to derive the customer-provided key for a file. Not applicable for directories.

Required? false
Position? named

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

-FileSystem <System.String>

FileSystem name

Required? true
Position? 0
Default value None
Accept pipeline input? True (ByValue)
Accept wildcard characters? false

-Force <System.Management.Automation.SwitchParameter>

If passed then new item is created without any prompt

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-Metadata <System.Collections.Hashtable>

Specifies metadata for the created directory or file.

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

-Path <System.String>

The path in the specified Filesystem that should be create. Can be a file or directory In the format 'directory\file.txt' or

'directory1/directory2/

Required?	true
Position?	1
Default value	None
Accept pipeline input?	True (ByValue)
Accept wildcard characters?	false

-Permission <System.String>

Sets POSIX access permissions for the file owner, the file owning group, and others. Each class may be granted read, write, or execute permission. Symbolic

(rwxrw-rw-) is supported. The sticky bit is also supported and its represented either by the letter t or T in the final character-place depending on whether the

execution bit for the others category is set or unset respectively, absence of t or T indicates sticky bit not set.

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

-Property <System.Collections.Hashtable>

Specifies properties for the created directory or file. The supported properties for file are: CacheControl, ContentDisposition, ContentEncoding,

ContentLanguage, ContentMD5, ContentType. The supported properties for directory are: CacheControl, ContentDisposition, ContentEncoding, ContentLanguage.

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

-Source <System.String>

Specify the local source file path which will be upload to a Datalake Gen2 file.

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

-Umask <System.String>

When creating New Item and the parent directory does not have a default ACL, the umask restricts the permissions of the file or directory to be created. The

resulting permission is given by $p \& \sim u$, where p is the permission and u is the umask. Symbolic (rwxrw-rw-) is supported.

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

Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext

OUTPUTS

Microsoft.WindowsAzure.Commands.Common.Storage.ResourceModel.AzureDataLakeGen2Item

NOTES

Example 1: Create a directory with specified permission, Umask, properties, and metadata

```
---rw---- -Property @{ "CacheControl" = "READ";  
"ContentDisposition" = "True"} -Metadata @{ "tag1" = "value1"; "tag2" = "value2" }
```

FileSystem Name: filesystem1

Path	IsDirectory	Length	LastModified	Permissions	Owner	Group
dir1/dir2	True		2020-03-23 09:15:56Z	rwX---rwT	\$superuser	\$superuser

This command creates a directory with specified Permission, Umask, properties, and metadata

Example 2: Create(upload) a data lake file from a local source file, and the cmdlet runs in background

```
$task = New-AzDataLakeGen2Item -FileSystem "testfilesystem" -Path "dir1/dir2/file1" -Source "c:\sourcefile.txt" -Force  
-asjob  
$task | Wait-Job  
$task.Output
```

FileSystem Name: filesystem1

Path	IsDirectory	Length	LastModified	Permissions	Owner	Group
dir1/dir2/file1	False	14400000	2020-03-23 09:19:13Z	rw-r-----	\$superuser	\$superuser

This command creates(upload) a data lake file from a local source file, and the cmdlet runs in background.

Example 3: Create(upload) a data lake file from a local source file and set its encryption context

```
$file = New-AzDataLakeGen2Item -FileSystem "testfilesystem" -Path "dir1/dir2/file1" -Source "c:\sourcefile.txt"  
-EncryptionContext "encryptioncontext"  
$file.Properties.EncryptionContext
```

encryptioncontext

This command creates(upload) a data lake file from a local source file and sets its encryption context value to "encryptioncontext".

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.storage/new-azdatalakegen2item>