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

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

NAME

New-AzMLWorkspaceBatchDeployment

SYNOPSIS

Creates/updates a batch inference deployment (asynchronous).

SYNTAX

New-AzMLWorkspaceBatchDeployment -EndpointName <String> -Name <String> -ResourceGroupName <String> -WorkspaceName <String> [-SubscriptionId <String>] -Location

<String> [-CodeId <String>] [-CodeScoringScript <String>] [-ComputeId <String>] [-Description <String>] [-EndpointDeploymentProperties <Hashtable>] [-EnvironmentId

<String>] [-EnvironmentVariable <Hashtable>] [-ErrorThreshold <Int32>] [-IdentityType <ManagedServiceIdentityType>] [-IdentityUserAssigned <Hashtable>] [-Kind

<String>] [-LoggingLevel <BatchLoggingLevel>] [-MaxConcurrencyPerInstance <Int32>] [-MiniBatchSize <Int64>] [-ModelReferenceType <ReferenceType>] [-OutputAction

<BatchOutputAction>] [-OutputFileName <String>] [-ResourceInstanceCount <Int32>] [-ResourceInstanceType <String>] [-ResourceProperty <Hashtable>] [-RetryMax <Int32>]

[-RetryTimeout <TimeSpan>] [-SkuCapacity <Int32>] [-SkuFamily <String>] [-SkuName <String>] [-SkuSize <String>] [-SkuTier <SkuTier>] [-Tag <Hashtable>]

[-DefaultProfile <PSObject>] [-AsJob] [-Break] [-HttpPipelineAppend <SendAsyncStep[]>] [-HttpPipelinePrepend <SendAsyncStep[]>] [-NoWait] [-Proxy <Uri>]

[-ProxyCredential <PSCredential>] [-ProxyUseDefaultCredentials] [-WhatIf] [-Confirm] [<CommonParameters>]

DESCRIPTION

Creates/updates a batch inference deployment (asynchronous).

PARAMETERS

-EndpointName <String>

Inference endpoint name

Required?   true

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-Name <String>

The identifier for the Batch inference deployment.

Required?   true

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-ResourceGroupName <String>

The name of the resource group.

The name is case insensitive.

Required?   true

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-WorkspaceName <String>

Name of Azure Machine Learning workspace.

Required?   true

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-SubscriptionId <String>

The ID of the target subscription.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-Location <String>

The geo-location where the resource lives

Required?   true

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-CodeId <String>

ARM resource ID of the code asset.

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

-CodeScoringScript <String>

[Required] The script to execute on startup.

eg.

"score.py"

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

-ComputeId <String>

Compute target for batch inference operation.

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

-Description <String>

Description of the endpoint deployment.

```
Required?                false
Position?                named
```

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-EndpointDeploymentProperties <Hashtable>

Property dictionary.

Properties can be added, but not removed or altered.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-EnvironmentId <String>

ARM resource ID or AssetId of the environment specification for the endpoint deployment.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-EnvironmentVariable <Hashtable>

Environment variables configuration for the deployment.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-ErrorThreshold <Int32>

Error threshold, if the error count for the entire input goes above this value,the batch inference will be aborted.

Range is [-1, int.MaxValue].For FileDataset, this value is the count of file failures.For TabularDataset, this value is the count of record failures.If set to -1

(the lower bound), all failures during batch inference will be ignored.

Required?	false
Position?	named
Default value	0
Accept pipeline input?	false
Accept wildcard characters?	false

-IdentityType <ManagedServiceIdentityType>

Type of managed service identity (where both SystemAssigned and UserAssigned types are allowed).

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

-IdentityUserAssigned <Hashtable>

The set of user assigned identities associated with the resource.

The userAssignedIdentities dictionary keys will be ARM resource ids in the form:

'/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.ManagedIdentity/userAssignedIdentities/{identityName}.

The dictionary values can be empty objects ({}) in requests.

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

-Kind <String>

Metadata used by portal/tooling/etc to render different UX experiences for resources of the same type.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-LoggingLevel <BatchLoggingLevel>

Logging level for batch inference operation.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-MaxConcurrencyPerInstance <Int32>

Indicates maximum number of parallelism per instance.

Required?   false

Position?   named

Default value   0

Accept pipeline input?   false

Accept wildcard characters? false

-MiniBatchSize <Int64>

Size of the mini-batch passed to each batch invocation.For FileDataset, this is the number of files per mini-batch.For TabularDataset, this is the size of the

records in bytes, per mini-batch.

Required?   false

Position?   named

Default value   0

Accept pipeline input?   false

Accept wildcard characters? false

-ModelReferenceType <ReferenceType>

   [Required] Specifies the type of asset reference.

   Required?   false

   Position?   named

   Default value

   Accept pipeline input?   false

   Accept wildcard characters? false

-OutputAction <BatchOutputAction>

   Indicates how the output will be organized.

   Required?   false

   Position?   named

   Default value

   Accept pipeline input?   false

   Accept wildcard characters? false

-OutputFileName <String>

   Customized output file name for append_row output action.

   Required?   false

   Position?   named

   Default value

   Accept pipeline input?   false

   Accept wildcard characters? false

-ResourceInstanceCount <Int32>

Optional number of instances or nodes used by the compute target.

Required?   false

Position?   named

Default value   0

Accept pipeline input?   false

Accept wildcard characters? false

-ResourceInstanceType <String>

Optional type of VM used as supported by the compute target.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-ResourceProperty <Hashtable>

Additional properties bag.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-RetryMax <Int32>

Maximum retry count for a mini-batch

Required?   false

Position?   named

Default value   0

Accept pipeline input?   false

Accept wildcard characters? false

-RetryTimeout <TimeSpan>

   Invocation timeout for a mini-batch, in ISO 8601 format.

   Required?   false

   Position?   named

   Default value

   Accept pipeline input?   false

   Accept wildcard characters? false

-SkuCapacity <Int32>

   If the SKU supports scale out/in then the capacity integer should be included.

   If scale out/in is not possible for the resource this may be omitted.

   Required?   false

   Position?   named

   Default value   0

   Accept pipeline input?   false

   Accept wildcard characters? false

-SkuFamily <String>

   If the service has different generations of hardware, for the same SKU, then that can be captured here.

   Required?   false

   Position?   named

   Default value

   Accept pipeline input?   false

   Accept wildcard characters? false

-SkuName <String>

   The name of the SKU.

Ex - P3.

It is typically a letter+number code

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-SkuSize <String>

The SKU size.

When the name field is the combination of tier and some other value, this would be the standalone code.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-SkuTier <SkuTier>

This field is required to be implemented by the Resource Provider if the service has more than one tier, but is not required on a PUT.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-Tag <Hashtable>

Resource tags.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-DefaultProfile <PSObject>

The credentials, account, tenant, and subscription used for communication with Azure.

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-AsJob [<SwitchParameter>]

Run the command as a job

Required?   false

Position?   named

Default value   False

Accept pipeline input?   false

Accept wildcard characters? false

-Break [<SwitchParameter>]

Wait for .NET debugger to attach

Required?   false

Position?   named

Default value   False

Accept pipeline input?   false

Accept wildcard characters? false

-HttpPipelineAppend <SendAsyncStep[]>

SendAsync Pipeline Steps to be appended to the front of the pipeline

    Required?   false

    Position?   named

    Default value

    Accept pipeline input?   false

    Accept wildcard characters? false

-HttpPipelinePrepend <SendAsyncStep[]>

    SendAsync Pipeline Steps to be prepended to the front of the pipeline

    Required?   false

    Position?   named

    Default value

    Accept pipeline input?   false

    Accept wildcard characters? false

-NoWait [<SwitchParameter>]

    Run the command asynchronously

    Required?   false

    Position?   named

    Default value   False

    Accept pipeline input?   false

    Accept wildcard characters? false

-Proxy <Uri>

    The URI for the proxy server to use

    Required?   false

    Position?   named

    Default value

    Accept pipeline input?   false

Accept wildcard characters? false

-ProxyCredential <PSCredential>

Credentials for a proxy server to use for the remote call

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-ProxyUseDefaultCredentials [<SwitchParameter>]

Use the default credentials for the proxy

Required?   false

Position?   named

Default value   False

Accept pipeline input?   false

Accept wildcard characters? false

-WhatIf [<SwitchParameter>]

Required?   false

Position?   named

Default value

Accept pipeline input?   false

Accept wildcard characters? false

-Confirm [<SwitchParameter>]

Required?   false

Position?   named

Default value

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

OUTPUTS

Microsoft.Azure.PowerShell.Cmdlets.MachineLearningServices.Models.Api20220501.IBatchDeployment

-------------------------- EXAMPLE 1 --------------------------

PS C:\>New-AzMLWorkspaceBatchDeployment -ResourceGroupName ml-rg-test -WorkspaceName mlworkspace-cli01
-EndpointName batch-pwsh03 -Name nonmlflowdp -Location "eastus"
`

-CodeId
"/subscriptions/9e223dbe-3399-4e19-88eb-0975f02ac87f/resourceGroups/ml-rg-test/providers/Microsoft.MachineLearningS
ervices/workspaces/mlworkspace-cli01/codes/b

d430754-fba7-4a63-a6b8-8ea8635767f3/versions/1" -CodeScoringScript "digit_identification.py" `
-EnvironmentId
"/subscriptions/9e223dbe-3399-4e19-88eb-0975f02ac87f/resourceGroups/ml-rg-test/providers/Microsoft.MachineLearningS
ervices/workspaces/mlworkspace-cli01/

environments/CliV2AnonymousEnvironment/versions/5d230430f302e7876f9b64710733f68e" `
-Compute
"/subscriptions/9e223dbe-3399-4e19-88eb-0975f02ac87f/resourceGroups/ml-rg-test/providers/Microsoft.MachineLearningS
ervices/workspaces/mlworkspace-cli01/comput

es/batch-cluster" `

-ModelReferenceType 'Id'

RELATED LINKS

https://learn.microsoft.com/powershell/module/az.machinelearningservices/new-azmlworkspacebatchdeployment