



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

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

NAME

New-AzMLWorkspaceCompute

SYNOPSIS

Creates or updates compute.

This call will overwrite a compute if it exists.

This is a nonrecoverable operation.

If your intent is to create a new compute, do a GET first to verify that it does not exist yet.

SYNTAX

```
New-AzMLWorkspaceCompute -Name <String> -ResourceGroupName <String> -WorkspaceName <String>
[-SubscriptionId <String>] [-Compute <ICompute>] [-IdentityType
    <ManagedServiceIdentityType>] [-IdentityUserAssigned <Hashtable>] [-Location <String>] [-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 or updates compute.

This call will overwrite a compute if it exists.

This is a nonrecoverable operation.

If your intent is to create a new compute, do a GET first to verify that it does not exist yet.

PARAMETERS

-Name <String>

Name of the Azure Machine Learning compute.

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

-Compute <ICompute>

Compute properties

To construct, see NOTES section for COMPUTE properties and create a hash table.

Required? false

Position? named

Default value

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

-Location <String>

Specifies the location of the resource.

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>

Contains resource tags defined as key/value pairs.

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.IComputeResource

NOTES

COMPLEX PARAMETER PROPERTIES

To create the parameters described below, construct a hash table containing the appropriate properties. For information on hash tables, run Get-Help

about_Hash_Tables.

COMPUTE <ICompute>: Compute properties

Type <ComputeType>: The type of compute

[Description <String>]: The description of the Machine Learning compute.

[DisableLocalAuth <Boolean?>]: Opt-out of local authentication and ensure customers can use only MSI and AAD exclusively for authentication.

[ResourceId <String>]: ARM resource id of the underlying compute

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

```
PS C:\># The datastore type includes 'AKS', 'Kubernetes', 'AmlCompute', 'ComputeInstance','DataFactory',  
'VirtualMachine', 'HDInsight', 'Databricks',  
'DataLakeAnalytics', 'SynapseSpark'.
```

You can use following command to create it then pass it as value to Compute parameter of the New-AzMLWorkspaceCompute cmdlet.

```
# New-AzMLWorkspaceAmlComputeObject  
# New-AzMLWorkspaceComputeInstanceObject  
# New-AzMLWorkspaceAksObject  
# New-AzMLWorkspaceKubernetesObject  
# New-AzMLWorkspaceVirtualMachineObject  
# New-AzMLWorkspaceHDInsightObject  
# New-AzMLWorkspaceDataFactoryObject  
# New-AzMLWorkspaceDatabricksObject  
# New-AzMLWorkspaceDataLakeAnalyticsObject  
# New-AzMLWorkspaceSynapseSparkObject
```

```
$aml = New-AzMLWorkspaceAmlComputeObject -OSType 'Linux' -VMSize "STANDARD_DS3_V2" `  
-ScaleMaxNodeCount 8 -ScaleMinNodeCount 0 -RemoteLoginPortPublicAccess 'NotSpecified' -EnableNodePublicIP  
$true  
New-AzMLWorkspaceCompute -ResourceGroupName ml-rg-test -WorkspaceName mlworkspace-test01 -Name aml02  
-Location eastus -Compute $aml
```

RELATED LINKS

<https://learn.microsoft.com/powershell/module/az.machinelearningservices/new-azmlworkspacecompute>