



## ***Windows PowerShell Get-Help on Cmdlet 'New-AzKustoCluster'***

***PS:\>Get-HELP New-AzKustoCluster -Full***

### NAME

New-AzKustoCluster

### SYNOPSIS

Create or update a Kusto cluster.

### SYNTAX

```
New-AzKustoCluster -Name <String> -ResourceGroupName <String> [-SubscriptionId <String>] [-IfMatch <String>]
[-IfNoneMatch <String>] -Location <String> -SkuName
<AzureSkuName> -SkuTier <AzureSkuTier> [-AcceptedAudience <IAcceptedAudiences[]>] [-AllowedFqdnList <String[]>]
[-AllowedIPRangeList <String[]>] [-EnableAutoStop]
[-EnableDiskEncryption] [-EnableDoubleEncryption] [-EnablePurge] [-EnableStreamingIngest] [-EngineType
<EngineType>] [-IdentityType <IdentityType>]
[-IdentityUserAssignedIdentity <Hashtable>] [-KeyVaultPropertyKeyName <String>] [-KeyVaultPropertyKeyVaultUri
<String>] [-KeyVaultPropertyKeyVersion <String>]
[-KeyVaultPropertyUserIdentity <String>] [-LanguageExtensionValue <ILanguageExtension[]>]
[-OptimizedAutoscaleIsEnabled] [-OptimizedAutoscaleMaximum <Int32>]
[-OptimizedAutoscaleMinimum <Int32>] [-OptimizedAutoscaleVersion <Int32>] [-PublicIPType <PublicIPType>]
[-PublicNetworkAccess <PublicNetworkAccess>]
```

[-RestrictOutboundNetworkAccess <ClusterNetworkAccessFlag>] [-SkuCapacity <Int32>] [-Tag <Hashtable>]  
 [-TrustedExternalTenant <ITrustedExternalTenant[]>]  
 [-VirtualClusterGraduationProperty <String>] [-VirtualNetworkConfigurationDataManagementPublicIPId <String>]  
 [-VirtualNetworkConfigurationEnginePublicIPId <String>]  
 [-VirtualNetworkConfigurationState <VnetState>] [-VirtualNetworkConfigurationSubnetId <String>] [-Zone <String[]>]  
 [-DefaultProfile <PSObject>] [-AsJob] [-Break]  
 [-HttpPipelineAppend <SendAsyncStep[]>] [-HttpPipelinePrepend <SendAsyncStep[]>] [-NoWait] [-Proxy <Uri>]  
 [-ProxyCredential <PSCredential>]  
 [-ProxyUseDefaultCredentials] [-WhatIf] [-Confirm] [<CommonParameters>]

## DESCRIPTION

Create or update a Kusto cluster.

## PARAMETERS

-Name <String>

The name of the Kusto cluster.

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

#### -SubscriptionId <String>

The ID of the target subscription.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -IfMatch <String>

The ETag of the cluster.

Omit this value to always overwrite the current cluster.

Specify the last-seen ETag value to prevent accidentally overwriting concurrent changes.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -IfNoneMatch <String>

Set to '\*' to allow a new cluster to be created, but to prevent updating an existing cluster.

Other values will result in a 412 Pre-condition Failed response.

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

-SkuName <AzureSkuName>

SKU name.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-SkuTier <AzureSkuTier>

SKU tier.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-AcceptedAudience <IAcceptedAudiences[]>

The cluster's accepted audiences.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-AllowedFqdnList <String[]>

List of allowed FQDNs(Fully Qualified Domain Name) for egress from Cluster.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-AllowedIPRangeList <String[]>

The list of ips in the format of CIDR allowed to connect to the cluster.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-EnableAutoStop [<SwitchParameter>]

A boolean value that indicates if the cluster could be automatically stopped (due to lack of data or no activity for many days).

Required? false

Position? named

Default value False

Accept pipeline input? false

Accept wildcard characters? false

-EnableDiskEncryption [<SwitchParameter>]

A boolean value that indicates if the cluster's disks are encrypted.

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

**-EnableDoubleEncryption [<SwitchParameter>]**

A boolean value that indicates if double encryption is enabled.

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

**-EnablePurge [<SwitchParameter>]**

A boolean value that indicates if the purge operations are enabled.

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

**-EnableStreamingIngest [<SwitchParameter>]**

A boolean value that indicates if the streaming ingest is enabled.

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

#### -EngineType <EngineType>

The engine type

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -IdentityType <IdentityType>

The type of managed identity used.

The type 'SystemAssigned, UserAssigned' includes both an implicitly created identity and a set of user-assigned identities.

The type 'None' will remove all identities.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -IdentityUserAssignedIdentity <Hashtable>

The list of user identities associated with the Kusto cluster.

The user identity dictionary key references will be ARM resource ids in the form:

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-KeyVaultPropertyKeyName <String>

The name of the key vault key.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-KeyVaultPropertyKeyVaultUri <String>

The Uri of the key vault.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-KeyVaultPropertyKeyVersion <String>

The version of the key vault key.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-KeyVaultPropertyUserIdentity <String>

The user assigned identity (ARM resource id) that has access to the key.

Required? false

Position?                named

Default value

Accept pipeline input?    false

Accept wildcard characters? false

-LanguageExtensionValue <ILanguageExtension[]>

The list of language extensions.

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

Required?                false

Position?                named

Default value

Accept pipeline input?    false

Accept wildcard characters? false

-OptimizedAutoscaleIsEnabled [<SwitchParameter>]

A boolean value that indicate if the optimized autoscale feature is enabled or not.

Required?                false

Position?                named

Default value            False

Accept pipeline input?    false

Accept wildcard characters? false

-OptimizedAutoscaleMaximum <Int32>

Maximum allowed instances count.

Required?                false

Position?                named

Default value            0

Accept pipeline input?    false

Accept wildcard characters? false

#### -OptimizedAutoscaleMinimum <Int32>

Minimum allowed instances count.

Required? false

Position? named

Default value 0

Accept pipeline input? false

Accept wildcard characters? false

#### -OptimizedAutoscaleVersion <Int32>

The version of the template defined, for instance 1.

Required? false

Position? named

Default value 0

Accept pipeline input? false

Accept wildcard characters? false

#### -PublicIPType <PublicIPType>

Indicates what public IP type to create - IPv4 (default), or DualStack (both IPv4 and IPv6)

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -PublicNetworkAccess <PublicNetworkAccess>

Public network access to the cluster is enabled by default.

When disabled, only private endpoint connection to the cluster is allowed

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

**-RestrictOutboundNetworkAccess <ClusterNetworkAccessFlag>**

Whether or not to restrict outbound network access.

Value is optional but if passed in, must be 'Enabled' or 'Disabled'

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

**-SkuCapacity <Int32>**

The number of instances of the cluster.

Required? false

Position? named

Default value 0

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

**-TrustedExternalTenant <ITrustedExternalTenant[]>**

The cluster's external tenants.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-VirtualClusterGraduationProperty <String>

Virtual Cluster graduation properties

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-VirtualNetworkConfigurationDataManagementPublicIPId <String>

Data management's service public IP address resource id.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-VirtualNetworkConfigurationEnginePublicIPId <String>

Engine service's public IP address resource id.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -VirtualNetworkConfigurationState <VnetState>

When enabled, the cluster is deployed into the configured subnet, when disabled it will be removed from the subnet.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -VirtualNetworkConfigurationSubnetId <String>

The subnet resource id.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -Zone <String[]>

The availability zones of the cluster.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -DefaultProfile <PSObject>

The DefaultProfile parameter is not functional.

Use the SubscriptionId parameter when available if executing the cmdlet against a different subscription. *Page 13/18*

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.Kusto.Models.Api20230815.ICluster

## 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.

ACCEPTEDAUDIENCE <IAcceptedAudiences[]>: The cluster's accepted audiences.

[Value <String>]: GUID or valid URL representing an accepted audience.

LANGUAGEEXTENSIONVALUE <ILanguageExtension[]>: The list of language extensions.

[CustomImageName <String>]: The language extension custom image name.

[ImageName <LanguageExtensionImageName?>]: The language extension image name.

[Name <LanguageExtensionName?>]: The language extension name.

TRUSTEDEXTERNALTENANT <ITrustedExternalTenant[]>: The cluster's external tenants.

[Value <String>]: GUID representing an external tenant.

### ----- EXAMPLE 1 -----

```
PS C:\>New-AzKustoCluster -ResourceGroupName testrg -Name testnewkustocluster -Location 'East US' -SkuName
Standard_D11_v2 -SkuTier Standard -EnableDoubleEncryption
-EngineType 'V2'
```

#### RELATED LINKS

<https://learn.microsoft.com/powershell/module/az.kusto/new-azkustocluster>