



Windows PowerShell Get-Help on Cmdlet 'Set-AzAksCluster'

PS:\>Get-HELP Set-AzAksCluster -Full

NAME

Set-AzAksCluster

SYNOPSIS

Update or create a managed Kubernetes cluster.

SYNTAX

```

Set-AzAksCluster [-Id] <System.String> [-AadProfile
<Microsoft.Azure.Management.ContainerService.Models.ManagedClusterAADProfile>] [-AcrNameToAttach
<System.String>]
[-AcrNameToDetach <System.String>] [-AksCustomHeader <System.Collections.Hashtable>]
[-ApiServerAccessAuthorizedIpRange <System.String[]>]
[-ApiServerAccessPrivateDnsZone <System.String>] [-AsJob] [-AssignIdentity <System.String>] [-AutoScalerProfile
<Microsoft.Azure.Management.ContainerService.Models.ManagedClusterPropertiesAutoScalerProfile>]
[-AutoUpgradeChannel <System.String>] [-ControlPlaneOnly]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableLocalAccount] [-DiskEncryptionSetID
<System.String>] [-DnsNamePrefix <System.String>] [-EnableAHUB] [-EnableApiServerAccessPrivateCluster]
[-EnableApiServerAccessPrivateClusterPublicFQDN]

```

[-EnableManagedIdentity] [-EnableNodeAutoScaling] [-EnableOidcIssuer] [-EnableUptimeSLA] [-FqdnSubdomain
 <System.String>] [-HttpProxy <System.String>]
 [-HttpProxyConfigNoProxyEndpoint <System.String[]>] [-HttpProxyConfigTrustedCa <System.String>] [-HttpsProxy
 <System.String>] [-KubernetesVersion <System.String>]
 [-LinuxProfileAdminUserName <System.String>] [-LoadBalancerAllocatedOutboundPort <System.Int32>]
 [-LoadBalancerIdleTimeoutInMinute <System.Int32>]
 [-LoadBalancerManagedOutboundIpCount <System.Int32>] [-LoadBalancerOutboundIp <System.String[]>]
 [-LoadBalancerOutboundIpPrefix <System.String[]>] [-Location
 <System.String>] [-NodeCount <System.Int32>] [-NodeImageOnly] [-NodeMaxCount <System.Int32>] [-NodeMinCount
 <System.Int32>] [-NodeName <System.String>]
 [-NodeOsDiskSize <System.Int32>] [-NodePoolLabel <System.Collections.Hashtable>] [-NodePoolMode
 <System.String>] [-NodePoolTag <System.Collections.Hashtable>]
 [-NodeVmSize <System.String>] [-SshKeyValue <System.String>] [-SubscriptionId <System.String>] [-Tag
 <System.Collections.Hashtable>] [-WindowsProfileAdminUserPassword
 <System.Security.SecureString>] [-Confirm] [-WhatIf] [<CommonParameters>]

 Set-AzAksCluster [-AadProfile <Microsoft.Azure.Management.ContainerService.Models.ManagedClusterAADProfile>]
 [-AcrNameToAttach <System.String>] [-AcrNameToDetach
 <System.String>] [-AksCustomHeader <System.Collections.Hashtable>] [-ApiServerAccessAuthorizedIpRange
 <System.String[]>] [-ApiServerAccessPrivateDnsZone
 <System.String>] [-AsJob] [-AssignIdentity <System.String>] [-AutoScalerProfile
 <Microsoft.Azure.Management.ContainerService.Models.ManagedClusterPropertiesAutoScalerProfile>]
 [-AutoUpgradeChannel <System.String>] [-ControlPlaneOnly]
 [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
 [-DisableLocalAccount] [-DiskEncryptionSetId
 <System.String>] [-DnsNamePrefix <System.String>] [-EnableAHUB] [-EnableApiServerAccessPrivateCluster]
 [-EnableApiServerAccessPrivateClusterPublicFQDN]
 [-EnableManagedIdentity] [-EnableNodeAutoScaling] [-EnableOidcIssuer] [-EnableUptimeSLA] [-FqdnSubdomain
 <System.String>] [-HttpProxy <System.String>]
 [-HttpProxyConfigNoProxyEndpoint <System.String[]>] [-HttpProxyConfigTrustedCa <System.String>] [-HttpsProxy
 <System.String>] -InputObject
 <Microsoft.Azure.Commands.Aks.Models.PSKubernetesCluster> [-KubernetesVersion <System.String>]
 [-LinuxProfileAdminUserName <System.String>]

[-LoadBalancerAllocatedOutboundPort <System.Int32>] [-LoadBalancerIdleTimeoutInMinute <System.Int32>]
 [-LoadBalancerManagedOutboundIpCount <System.Int32>]
 [-LoadBalancerOutboundIp <System.String[]>] [-LoadBalancerOutboundIpPrefix <System.String[]>] [-Location
 <System.String>] [-NodeCount <System.Int32>] [-NodeImageOnly]
 [-NodeMaxCount <System.Int32>] [-NodeMinCount <System.Int32>] [-NodeName <System.String>] [-NodeOsDiskSize
 <System.Int32>] [-NodePoolLabel
 <System.Collections.Hashtable>] [-NodePoolMode <System.String>] [-NodePoolTag <System.Collections.Hashtable>]
 [-NodeVmSize <System.String>] [-SshKeyValue
 <System.String>] [-SubscriptionId <System.String>] [-Tag <System.Collections.Hashtable>]
 [-WindowsProfileAdminUserPassword <System.Security.SecureString>] [-Confirm]
 [-WhatIf] [<CommonParameters>]

Set-AzAksCluster [-ResourceGroupName] <System.String> [-Name] <System.String> [[-ServicePrincipalIdAndSecret]
 <System.Management.Automation.PSCredential>]
 [-AadProfile <Microsoft.Azure.Management.ContainerService.Models.ManagedClusterAADProfile>] [-AcrNameToAttach
 <System.String>] [-AcrNameToDetach <System.String>]
 [-AksCustomHeader <System.Collections.Hashtable>] [-ApiServerAccessAuthorizedIpRange <System.String[]>]
 [-ApiServerAccessPrivateDnsZone <System.String>] [-AsJob]
 [-AssignIdentity <System.String>] [-AutoScalerProfile
 <Microsoft.Azure.Management.ContainerService.Models.ManagedClusterPropertiesAutoScalerProfile>]
 [-AutoUpgradeChannel <System.String>] [-ControlPlaneOnly] [-DefaultProfile
 <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
 [-DisableLocalAccount] [-DiskEncryptionSetId <System.String>] [-DnsNamePrefix <System.String>] [-EnableAHUB]
 [-EnableApiServerAccessPrivateCluster]
 [-EnableApiServerAccessPrivateClusterPublicFQDN] [-EnableManagedIdentity] [-EnableNodeAutoScaling]
 [-EnableOidcIssuer] [-EnableUptimeSLA] [-FqdnSubdomain
 <System.String>] [-HttpProxy <System.String>] [-HttpProxyConfigNoProxyEndpoint <System.String[]>]
 [-HttpProxyConfigTrustedCa <System.String>] [-HttpsProxy
 <System.String>] [-KubernetesVersion <System.String>] [-LinuxProfileAdminUserName <System.String>]
 [-LoadBalancerAllocatedOutboundPort <System.Int32>]
 [-LoadBalancerIdleTimeoutInMinute <System.Int32>] [-LoadBalancerManagedOutboundIpCount <System.Int32>]
 [-LoadBalancerOutboundIp <System.String[]>]
 [-LoadBalancerOutboundIpPrefix <System.String[]>] [-Location <System.String>] [-NodeCount <System.Int32>]

[-NodeImageOnly] [-NodeMaxCount <System.Int32>]

[-NodeMinCount <System.Int32>] [-NodeName <System.String>] [-NodeOsDiskSize <System.Int32>] [-NodePoolLabel
<System.Collections.Hashtable>] [-NodePoolMode

<System.String>] [-NodePoolTag <System.Collections.Hashtable>] [-NodeVmSize <System.String>] [-SshKeyValue
<System.String>] [-SubscriptionId <System.String>] [-Tag

<System.Collections.Hashtable>] [-WindowsProfileAdminUserPassword <System.Security.SecureString>] [-Confirm]
[-WhatIf] [<CommonParameters>]

DESCRIPTION

Update or create a managed Kubernetes cluster.

PARAMETERS

-AadProfile <Microsoft.Azure.Management.ContainerService.Models.ManagedClusterAADProfile>

The Azure Active Directory configuration.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AcrNameToAttach <System.String>

Grant the 'acrpull' role of the specified ACR to AKS Service Principal, e.g. myacr

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AcrNameToDetach <System.String>

Disable the 'acrpull' role assignment to the ACR specified by name or resource ID, e.g. myacr

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

-AksCustomHeader <System.Collections.Hashtable>

Aks custom headers used for building Kubernetes network.

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

-ApiServerAccessAuthorizedIpRange <System.String[]>

The IP ranges authorized to access the Kubernetes API server.

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

-ApiServerAccessPrivateDnsZone <System.String>

The private DNS zone mode for the cluster.

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

Accept wildcard characters? false

-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

-AssignIdentity <System.String>

ResourceId of user assign managed identity for cluster.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AutoScalerProfile

<Microsoft.Azure.Management.ContainerService.Models.ManagedClusterPropertiesAutoScalerProfile>

The parameters to be applied to the cluster-autoscaler.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AutoUpgradeChannel <System.String>

The upgrade channel for auto upgrade. For more information see

<https://learn.microsoft.com/azure/aks/upgrade-cluster#set-auto-upgrade-channel>.

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

-ControlPlaneOnly <System.Management.Automation.SwitchParameter>

Will only upgrade control plane to target version.

Required? false
Position? named
Default value False
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

-DisableLocalAccount <System.Management.Automation.SwitchParameter>

Local accounts should be disabled on the Managed Cluster.

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

-DiskEncryptionSetID <System.String>

The resource ID of the disk encryption set to use for enabling encryption.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DnsNamePrefix <System.String>

The DNS name prefix for the cluster.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EnableAHUB <System.Management.Automation.SwitchParameter>

Whether to enable Azure Hybrid User Benefits (AHUB) for Windows VMs.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnableApiServerAccessPrivateCluster <System.Management.Automation.SwitchParameter>

Whether to create the cluster as a private cluster or not.

Required? false

Position? named

Default value False
Accept pipeline input? False
Accept wildcard characters? false

-EnableApiServerAccessPrivateClusterPublicFQDN <System.Management.Automation.SwitchParameter>

Whether to create additional public FQDN for private cluster or not.

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

-EnableManagedIdentity <System.Management.Automation.SwitchParameter>

Using a managed identity to manage cluster resource group.

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

-EnableNodeAutoScaling <System.Management.Automation.SwitchParameter>

Whether to enable auto-scaler

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

-EnableOidcIssuer <System.Management.Automation.SwitchParameter>

Whether to enable OIDC issuer feature.

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

-EnableUptimeSLA <System.Management.Automation.SwitchParameter>

Whether to use use Uptime SLA.

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

-FqdnSubdomain <System.String>

The FQDN subdomain of the private cluster with custom private dns zone.

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

-HttpProxy <System.String>

The HTTP proxy server endpoint to use.

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

-HttpProxyConfigNoProxyEndpoint <System.String[]>

The endpoints that should not go through proxy.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-HttpProxyConfigTrustedCa <System.String>

Alternative CA cert to use for connecting to proxy servers.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-HttpsProxy <System.String>

The HTTPS proxy server endpoint to use

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Id <System.String>

Id of a managed Kubernetes cluster

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-InputObject <Microsoft.Azure.Commands.Aks.Models.PSKubernetesCluster>

A PSKubernetesCluster object, normally passed through the pipeline.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-KubernetesVersion <System.String>

The version of Kubernetes to use for creating the cluster.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-LinuxProfileAdminUserName <System.String>

User name for the Linux Virtual Machines.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-LoadBalancerAllocatedOutboundPort <System.Int32>

The desired number of allocated SNAT ports per VM.

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

-LoadBalancerIdleTimeoutInMinute <System.Int32>

Desired outbound flow idle timeout in minutes.

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

-LoadBalancerManagedOutboundIpCount <System.Int32>

Desired managed outbound IPs count for the cluster load balancer.

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

-LoadBalancerOutboundIp <System.String[]>

Desired outbound IP resources for the cluster load balancer.

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

-LoadBalancerOutboundIpPrefix <System.String[]>

Desired outbound IP Prefix resources for the cluster load balancer.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Location <System.String>

Azure location for the cluster. Defaults to the location of the resource group.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Kubernetes managed cluster Name.

Required? true

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NodeCount <System.Int32>

The default number of nodes for the node pools.

Required? false

Position? named

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

-NodeImageOnly <System.Management.Automation.SwitchParameter>

Will only upgrade the node image of agent pools.

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

-NodeMaxCount <System.Int32>

Maximum number of nodes for auto-scaling

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

-NodeMinCount <System.Int32>

Minimum number of nodes for auto-scaling.

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

-NodeName <System.String>

Unique name of the agent pool profile in the context of the subscription and resource group.

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

-NodeOsDiskSize <System.Int32>

Specifies the size, in GB, of the operating system disk.

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

-NodePoolLabel <System.Collections.Hashtable>

Node pool labels used for building Kubernetes network.

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

-NodePoolMode <System.String>

NodePoolMode represents mode of an node pool.

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

-NodePoolTag <System.Collections.Hashtable>

The tags to be persisted on the agent pool virtual machine scale set.

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

-NodeVmSize <System.String>

The size of the Virtual Machine.

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

-ResourceGroupName <System.String>

Resource Group Name.

Required? true
Position? 0
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-ServicePrincipalIdAndSecret <System.Management.Automation.PSCredential>

The client id and client secret associated with the AAD application / service principal.

Required? false
Position? 2

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

-SshKeyValue <System.String>

SSH key file value or key file path. Defaults to {HOME}/.ssh/id_rsa.pub.

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

-SubscriptionId <System.String>

The ID of the subscription. By default, cmdlets are executed in the subscription that is set in the current context. If the user specifies another subscription,

the current cmdlet is executed in the subscription specified by the user. Overriding subscriptions only take effect during the lifecycle of the current cmdlet. It

does not change the subscription in the context, and does not affect subsequent cmdlets.

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

-Tag <System.Collections.Hashtable>

Tags to be applied to the resource

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

Accept wildcard characters? false

-WindowsProfileAdminUserPassword <System.Security.SecureString>

The administrator password to use for Windows VMs. Password requirement: At least one lower case, one upper case, one special character !@#\$%^&*(), the minimum length is 12.

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

Microsoft.Azure.Commands.Aks.Models.PSKubernetesCluster

System.String

OUTPUTS

Microsoft.Azure.Commands.Aks.Models.PSKubernetesCluster

NOTES

----- Example 1 -----

Get-AzAksCluster -ResourceGroupName group -Name myCluster | Set-AzAksCluster -NodeCount 5

Set the number of nodes in the Kubernetes cluster to 5.

----- Update an AKS cluster with AutoScalerProfile. -----

\$AutoScalerProfile=@{

ScanInterval="40s"

```
    Expander="priority"
}
```

```
$AutoScalerProfile=[Microsoft.Azure.Management.ContainerService.Models.ManagedClusterPropertiesAutoScalerProfile]$
AutoScalerProfile
```

```
    Get-AzAksCluster -ResourceGroupName group -Name myCluster | Set-AzAksCluster -AutoScalerProfile
$AutoScalerProfile
```

----- Update an AKS cluster with AadProfile. -----

```
$AKSAdminGroup=New-AzADGroup -DisplayName myAKSAdminGroup -MailNickname myAKSAdminGroup
$AadProfile=@{
    managed=$true
    enableAzureRBAC=$false
    adminGroupObjectIds=[System.Collections.Generic.List[string]]@($AKSAdminGroup.Id)
}
$AadProfile=[Microsoft.Azure.Management.ContainerService.Models.ManagedClusterAADProfile]$AadProfile
```

```
Set-AzAksCluster -ResourceGroupName myResourceGroup -Name myAKSCluster -AadProfile $AadProfile
```

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.aks/set-azakscluster>