



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

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

WARNING: The names of some imported commands from the module 'Az.NetworkCloud.private' include unapproved verbs that might make them less discoverable. To find the

commands with unapproved verbs, run the Import-Module command again with the Verbose parameter. For a list of approved verbs, type Get-Verb.

WARNING: The names of some imported commands from the module 'Az.NetworkCloud.private' include unapproved verbs that might make them less discoverable. To find the

commands with unapproved verbs, run the Import-Module command again with the Verbose parameter. For a list of approved verbs, type Get-Verb.

WARNING: The names of some imported commands from the module 'Az.NetworkCloud.private' include unapproved verbs that might make them less discoverable. To find the

commands with unapproved verbs, run the Import-Module command again with the Verbose parameter. For a list of approved verbs, type Get-Verb.

#### **NAME**

New-AzNetworkCloudAgentPool

#### **SYNOPSIS**

Create a new Kubernetes cluster agent pool or update the properties of the existing one.

#### **SYNTAX**

```

New-AzNetworkCloudAgentPool -KubernetesClusterName <String> -Name <String> -ResourceGroupName <String>
[-SubscriptionId <String>] -Count <Int64> -Location <String>

-Mode <AgentPoolMode> -VMSkuName <String> [-AdministratorConfigurationAdminUsername <String>]
[-AdministratorConfigurationSshPublicKey <ISshPublicKey[]>]

[-AgentOptionHugepagesCount <Int64>] [-AgentOptionHugepagesSize <HugepagesSize>]
[-AttachedNetworkConfigurationL2Network <IL2NetworkAttachmentConfiguration[]>]
[-AttachedNetworkConfigurationL3Network <IL3NetworkAttachmentConfiguration[]>]
[-AttachedNetworkConfigurationTrunkedNetwork
<ITrunkedNetworkAttachmentConfiguration[]>] [-AvailabilityZone <String[]>] [-ExtendedLocationName <String>]
[-ExtendedLocationType <String>] [-Label
<IKubernetesLabel[]>] [-Tag <Hashtable>] [-Taint <IKubernetesLabel[]>] [-UpgradeSettingMaxSurge <String>]
[-DefaultProfile <PSObject>] [-AsJob] [-Break]

[-HttpPipelineAppend <SendAsyncStep[]>] [-HttpPipelinePrepend <SendAsyncStep[]>] [-NoWait] [-Proxy <Uri>]
[-ProxyCredential <PSCredential>]
[-ProxyUseDefaultCredentials] [-WhatIf] [-Confirm] [<CommonParameters>]

```

## DESCRIPTION

Create a new Kubernetes cluster agent pool or update the properties of the existing one.

## PARAMETERS

**-KubernetesClusterName <String>**

The name of the Kubernetes cluster.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

**-Name <String>**

The name of the Kubernetes cluster agent pool.

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.  
The value must be an UUID.

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

**-Count <Int64>**

The number of virtual machines that use this configuration.

Required? true  
Position? named  
Default value 0

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

#### -Mode <AgentPoolMode>

The selection of how this agent pool is utilized, either as a system pool or a user pool.

System pools run the features and critical services for the Kubernetes Cluster, while user pools are dedicated to user workloads.

Every Kubernetes cluster must contain at least one system node pool with at least one node.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -VMSkuName <String>

The name of the VM SKU that determines the size of resources allocated for node VMs.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -AdministratorConfigurationAdminUsername <String>

The user name for the administrator that will be applied to the operating systems that run Kubernetes nodes.

If not supplied, a user name will be chosen by the service.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -AdministratorConfigurationSshPublicKey <ISshPublicKey[]>

The SSH configuration for the operating systems that run the nodes in the Kubernetes cluster.

In some cases, specification of public keys may be required to produce a working environment.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -AgentOptionHugepagesCount <Int64>

The number of hugepages to allocate.

Required? false

Position? named

Default value 0

Accept pipeline input? false

Accept wildcard characters? false

#### -AgentOptionHugepagesSize <HugepagesSize>

The size of the hugepages to allocate.

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

-AttachedNetworkConfigurationL2Network <IL2NetworkAttachmentConfiguration[]>

The list of Layer 2 Networks and related configuration for attachment.

To construct, see NOTES section for ATTACHEDNETWORKCONFIGURATIONL2NETWORK properties and create a hash table.

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

-AttachedNetworkConfigurationL3Network <IL3NetworkAttachmentConfiguration[]>

The list of Layer 3 Networks and related configuration for attachment.

To construct, see NOTES section for ATTACHEDNETWORKCONFIGURATIONL3NETWORK properties and create a hash table.

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

-AttachedNetworkConfigurationTrunkedNetwork <ITrunkedNetworkAttachmentConfiguration[]>

The list of Trunked Networks and related configuration for attachment.

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

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

-AvailabilityZone <String[]>

The list of availability zones of the Network Cloud cluster used for the provisioning of nodes in this agent pool.  
If not specified, all availability zones will be used.

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

-ExtendedLocationName <String>

The resource ID of the extended location on which the resource will be created.

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

-ExtendedLocationType <String>

The extended location type, for example, CustomLocation.

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

Accept wildcard characters? false

#### -Label <IKubernetesLabel[]>

The labels applied to the nodes in this agent pool.

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

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

#### -Taint <IKubernetesLabel[]>

The taints applied to the nodes in this agent pool.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

#### -UpgradeSettingMaxSurge <String>

The maximum number or percentage of nodes that are surged during upgrade.

This can either be set to an integer (e.g.

'5') or a percentage (e.g.

'50%').

If a percentage is specified, it is the percentage of the total agent pool size at the time of the upgrade.

For percentages, fractional nodes are rounded up.

If not specified, the default is 1.

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.

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.NetworkCloud.Models.Api20230701.IAgentPool

## 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.

ADMINISTRATORCONFIGURATIONSSHPUBLICKEY <ISshPublicKey[]>: The SSH configuration for the operating systems that run the nodes in the Kubernetes cluster. In some

cases, specification of public keys may be required to produce a working environment.

KeyData <String>: The SSH public key data.

ATTACHEDNETWORKCONFIGURATIONL2NETWORK <IL2NetworkAttachmentConfiguration[]>: The list of Layer 2 Networks and related configuration for attachment.

NetworkId <String>: The resource ID of the network that is being configured for attachment.

[PluginType <KubernetesPluginType?>]: The indicator of how this network will be utilized by the Kubernetes cluster.

ATTACHEDNETWORKCONFIGURATIONL3NETWORK <IL3NetworkAttachmentConfiguration[]>: The list of Layer 3 Networks and related configuration for attachment.

NetworkId <String>: The resource ID of the network that is being configured for attachment.

[IpamEnabled <L3NetworkConfigurationIpamEnabled?>]: The indication of whether this network will or will not perform IP address management and allocate IP addresses when attached.

[PluginType <KubernetesPluginType?>]: The indicator of how this network will be utilized by the Kubernetes cluster.

ATTACHEDNETWORKCONFIGURATIONTRUNKEDNETWORK <ITrunkedNetworkAttachmentConfiguration[]>: The list of Trunked Networks and related configuration for attachment.

NetworkId <String>: The resource ID of the network that is being configured for attachment.

[PluginType <KubernetesPluginType?>]: The indicator of how this network will be utilized by the Kubernetes cluster.

LABEL <IKubernetesLabel[]>: The labels applied to the nodes in this agent pool.

Key <String>: The name of the label or taint.

Value <String>: The value of the label or taint.

TAINT <IKubernetesLabel[]>: The taints applied to the nodes in this agent pool.

Key <String>: The name of the label or taint.

Value <String>: The value of the label or taint.

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

```
PS C:\>$networkAttachment = @{
```

```
    AttachedNetworkId = "l3NetworkId"
```

```
}
```

```
$labels = @{
```

```
    Key = "key"
```

```
    Value = "value"
```

```
}
```

```
$taints = @{
```

```
    Key = "key"
```

```
    Value = "value"
```

```
}
```

```
$sshPublicKey = @{
```

```
    KeyData = "ssh-rsa aaaKyfsdx= fakekey@vm"
```

```
}
```

```
New-AzNetworkCloudAgentPool -KubernetesClusterName clusterName -Name agentPoolName -ResourceGroupName  
resourceGroup -Count count -Location location -Mode
```

```
    agentPoolMode -VMSkuName vmSkuName -SubscriptionId subscriptionId -AdministratorConfigurationAdminUsername  
adminUsername -AdministratorConfigurationSshPublicKey
```

```
    $sshPublicKey -AgentOptionHugepagesCount hugepagesCount -AgentOptionHugepagesSize hugepagesSize  
-AttachedNetworkConfigurationL3Network $networkAttachment
```

```
    -AvailabilityZone availabilityZones -ExtendedLocationName clusterExtendedLocation -ExtendedLocationType  
"CustomLocation " -Tag @{tags = "tag"} -Label $labels -Taint
```

```
    $taints -UpgradeSettingMaxSurge maxSurge
```

## RELATED LINKS

<https://learn.microsoft.com/powershell/module/az.networkcloud/new-aznetworkcloudagentpool>

