



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

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

NAME

New-AzServiceFabricManagedCluster

SYNOPSIS

Create new managed cluster.

SYNTAX

```
New-AzServiceFabricManagedCluster [-ResourceGroupName] <System.String> [-Name] <System.String>
-AdminPassword <System.Security.SecureString> [-AdminUserName
<System.String>] [-AsJob] -ClientCertCommonName <System.String> [-ClientCertIssAdmin] [-ClientCertIssuerThumbprint
<System.String[]>] [-ClientConnectionPort
<System.Int32>] [-CodeVersion <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DnsName
<System.String>] [-HttpGatewayConnectionPort <System.Int32>] -Location <System.String> [-Sku {Basic | Standard}]
[-Tag <System.Collections.Hashtable>]
[-UpgradeCadence {Wave0 | Wave1 | Wave2}] [-UpgradeMode {Automatic | Manual}] [-UseTestExtension]
[-ZonalResiliency] [-Confirm] [-WhatIf] [<CommonParameters>]
```

New-AzServiceFabricManagedCluster [-ResourceGroupName] <System.String> [-Name] <System.String>

-AdminPassword <System.Security.SecureString> [-AdminUserName
 <System.String>] [-AsJob] [-ClientCertIsAdmin] -ClientCertThumbprint <System.String> [-ClientConnectionPort
 <System.Int32>] [-CodeVersion <System.String>]
 [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
 [-DnsName <System.String>] [-HttpGatewayConnectionPort
 <System.Int32>] -Location <System.String> [-Sku {Basic | Standard}] [-Tag <System.Collections.Hashtable>]
 [-UpgradeCadence {Wave0 | Wave1 | Wave2}] [-UpgradeMode
 {Automatic | Manual}] [-UseTestExtension] [-ZonalResiliency] [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

This cmdlet will create a managed cluster resource without node types. To bootstrap the cluster A primary node type needs to be added use

`New-AzServiceFabricManagedNodeType (./New-AzServiceFabricManagedNodeType.md).`

PARAMETERS

-AdminPassword <System.Security.SecureString>

Admin password used for the virtual machines.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AdminUserName <System.String>

Admin password used for the virtual machines. Default: vmadmin.

Required? false

Position? named

Default value "vmadmin"

Accept pipeline input? False

Accept wildcard characters? false

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background and return a Job to track progress.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ClientCertCommonName <System.String>

Client certificate common name.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ClientCertIsAdmin <System.Management.Automation.SwitchParameter>

Use to specify if the client certificate has administrator level.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ClientCertIssuerThumbprint <System.String[]>

List of Issuer thumbprints for the client certificate. Only use in combination with ClientCertCommonName.

Required? false

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

-ClientCertThumbprint <System.String>

Client certificate thumbprint.

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

-ClientConnectionPort <System.Int32>

Port used for client connections to the cluster. Default: 19000.

Required? false
Position? named
Default value 19000
Accept pipeline input? False
Accept wildcard characters? false

-CodeVersion <System.String>

Cluster service fabric code version. Only use if upgrade mode is Manual.

Required? false
Position? named
Default value None
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

-DnsName <System.String>

Cluster's dns name.

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

-HttpGatewayConnectionPort <System.Int32>

Port used for http connections to the cluster. Default: 19080.

Required? false
Position? named
Default value 19080
Accept pipeline input? False
Accept wildcard characters? false

-Location <System.String>

The resource location

Required? true
Position? named
Default value None
Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Name <System.String>

Specify the name of the cluster.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceGroupName <System.String>

Specify the name of the resource group.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Sku <Microsoft.Azure.Commands.ServiceFabric.Models.ManagedClusterSku>

Cluster's Sku, the options are Basic: it will have a minimum of 3 seed nodes and only allows 1 node type and Standard: it will have a minimum of 5 seed nodes and allows multiple node types.

Required? false

Position? named

Default value Basic

Accept pipeline input? False

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

Specify the tags as key/value pairs.

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

-UpgradeCadence <Microsoft.Azure.Commands.ServiceFabric.Models.PSClusterUpgradeCadence>

Indicates when new cluster runtime version upgrades will be applied after they are released. By default is Wave0.

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

-UpgradeMode <Microsoft.Azure.Commands.ServiceFabric.Models.ClusterUpgradeMode>

Cluster service fabric code version upgrade mode. Automatic or Manual.

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

-UseTestExtension <System.Management.Automation.SwitchParameter>

If Specify The cluster will be crated with service test vmss extension.

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

-ZonalResiliency <System.Management.Automation.SwitchParameter>

Indicates if the cluster has zone resiliency.

Required? false

Position? named

Default value False

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

System.String

OUTPUTS

Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedCluster

NOTES

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

```
$rgName = "testRG"
```

```
$clusterName = "testCluster"
```

```
$password = ConvertTo-SecureString -AsPlainText -Force "testpass1234!@#"
```

```
$tags = @{"test"="tag"}
```

```
New-AzServiceFabricManagedCluster -ResourceGroupName $rgName -Location centraluseuap -ClusterName  
$clusterName -AdminPassword $password -Tag $tags -Verbose
```

This command creates a cluster resource with default basic sku.

----- Example 2 -----

```
$rgName = "testRG"
```

```
$clusterName = "testCluster"
```

```
$password = ConvertTo-SecureString -AsPlainText -Force "testpass1234!@#"
```

```
New-AzServiceFabricManagedCluster -ResourceGroupName $rgName -Location centraluseuap -ClusterName  
$clusterName -ClientCertThumbprint  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX -ClientCertIsAdmin -AdminPassword $password -Sku  
Standard -Verbose
```

This command creates a cluster resource in centraluseuap with an initial admin client certificate and standard sku.

----- Example 3 -----

```
$rgName = "testRG"
```

```
$clusterName = "testCluster"
```

```
$password = ConvertTo-SecureString -AsPlainText -Force "testpass1234!@#"
```

```
New-AzServiceFabricManagedCluster -ResourceGroupName $rgName -Location centraluseuap -ClusterName  
$clusterName -AdminPassword $password -Sku Standard -UpgradeMode  
Automatic -UpgradeCadence Wave1 -ZonalResiliency -Verbose
```

This command creates a cluster with upgrade cadence in wave1 and zonal resiliency enabled.

----- Example 4 -----

```
$rgName = "testRG"
```

```
$clusterName = "testCluster"
```

```
$password = ConvertTo-SecureString -AsPlainText -Force "testpass1234!@#"
```

```
New-AzServiceFabricManagedCluster -ResourceGroupName $rgName -Location centraluseuap -ClusterName  
$clusterName -AdminPassword $password -Sku Standard -UpgradeMode  
Manual -CodeVersion 7.2.477.9590 -Verbose
```

This command creates a cluster with manual upgrade mode and 7.2.477.9590 code version.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.servicefabric/new-azservicefabricmanagedcluster>

New-AzServiceFabricManagedNodeType