



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

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

NAME

New-AzServiceFabricManagedClusterService

SYNOPSIS

Create new service fabric managed service under the specified application and cluster.

SYNTAX

```
New-AzServiceFabricManagedClusterService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name]
<System.String> [-AsJob] [-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>]
[-DefaultMoveCost {Zero | Low | Medium | High}]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-Force] [-HasPersistedState] [-Metric
<Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>] -MinReplicaSetSize <System.Int32>
-PartitionSchemeSingleton [-PlacementConstraint <System.String>]
[-QuorumLossWaitDuration <System.TimeSpan>] [-ReplicaRestartWaitDuration <System.TimeSpan>]
[-ServicePackageActivationMode {SharedProcess | ExclusiveProcess}]
[-ServicePlacementTimeLimit <System.TimeSpan>] [-StandByReplicaKeepDuration <System.TimeSpan>] -Stateful [-Tag
<System.Collections.Hashtable>] -TargetReplicaSetSize
```

<System.Int32> -Type <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzServiceFabricManagedClusterService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name]
<System.String> [-AsJob] [-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>]
[-DefaultMoveCost {Zero | Low | Medium | High}]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-Force] [-HasPersistedState] -HighKey <System.Int64>
-LowKey <System.Int64> [-Metric <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>]
-MinReplicaSetSize <System.Int32> -PartitionCount <System.Int32>
-PartitionSchemeUniformInt64 [-PlacementConstraint <System.String>] [-QuorumLossWaitDuration <System.TimeSpan>]
[-ReplicaRestartWaitDuration <System.TimeSpan>]
[-ServicePackageActivationMode {SharedProcess | ExclusiveProcess}] [-ServicePlacementTimeLimit
<System.TimeSpan>] [-StandByReplicaKeepDuration <System.TimeSpan>]
-Stateful [-Tag <System.Collections.Hashtable>] -TargetReplicaSetSize <System.Int32> -Type <System.String>
[-Confirm] [-WhatIf] [<CommonParameters>]

New-AzServiceFabricManagedClusterService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name]
<System.String> [-AsJob] [-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>]
[-DefaultMoveCost {Zero | Low | Medium | High}]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-Force] [-HasPersistedState] [-Metric
<Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>] -MinReplicaSetSize <System.Int32>
-PartitionName <System.String[]> -PartitionSchemeNamed
[-PlacementConstraint <System.String>] [-QuorumLossWaitDuration <System.TimeSpan>] [-ReplicaRestartWaitDuration
<System.TimeSpan>] [-ServicePackageActivationMode
{SharedProcess | ExclusiveProcess}] [-ServicePlacementTimeLimit <System.TimeSpan>] [-StandByReplicaKeepDuration
<System.TimeSpan>] -Stateful [-Tag
<System.Collections.Hashtable>] -TargetReplicaSetSize <System.Int32> -Type <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]

New-AzServiceFabricManagedClusterService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>

```

[-ApplicationName] <System.String> [-Name]
    <System.String> [-AsJob] [-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>]
[-DefaultMoveCost {Zero | Low | Medium | High}]
    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-Force] -HighKey <System.Int64> -InstanceCount
    <System.Int32> -LowKey <System.Int64> [-Metric
<Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>] [-MinInstanceCount <System.Int32>]
    [-MinInstancePercentage <System.Int32>] -PartitionCount <System.Int32> -PartitionSchemeUniformInt64
[-PlacementConstraint <System.String>]
    [-ServicePackageActivationMode {SharedProcess | ExclusiveProcess}] -Stateless [-Tag <System.Collections.Hashtable>]
-Type <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]

```

```

New-AzServiceFabricManagedClusterService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name]
    <System.String> [-AsJob] [-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>]
[-DefaultMoveCost {Zero | Low | Medium | High}]
    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-Force] -InstanceCount <System.Int32> [-Metric
    <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>] [-MinInstanceCount <System.Int32>]
[-MinInstancePercentage <System.Int32>]
    -PartitionSchemeSingleton [-PlacementConstraint <System.String>] [-ServicePackageActivationMode {SharedProcess |
ExclusiveProcess}] -Stateless [-Tag
    <System.Collections.Hashtable>] -Type <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

```

```

New-AzServiceFabricManagedClusterService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name]
    <System.String> [-AsJob] [-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>]
[-DefaultMoveCost {Zero | Low | Medium | High}]
    [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-Force] -InstanceCount <System.Int32> [-Metric
    <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>] [-MinInstanceCount <System.Int32>]
[-MinInstancePercentage <System.Int32>] -PartitionName

```

<System.String[]> -PartitionSchemeNamed [-PlacementConstraint <System.String>] [-ServicePackageActivationMode {SharedProcess | ExclusiveProcess}] -Stateless [-Tag <System.Collections.Hashtable>] -Type <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

This cmdlet allows to creating stateless or stateful managed services under the specified application. The service should exit in the application manifest and the

type should be the same as the one in the manifest. The application name should be a prefix of the service name.

PARAMETERS

-ApplicationName <System.String>

Specify the name of the managed application.

Required?	true
-----------	------

Position?	2
-----------	---

Default value	None
---------------	------

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
-----------------------------	-------

-ClusterName <System.String>

Specify the name of the cluster.

Required? true
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Correlation <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation[]>

Specify the placement constraints of the managed service, as a string.

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

-DefaultMoveCost <Microsoft.Azure.Commands.ServiceFabric.Models.MoveCostEnum>

Specify the default cost for a move. Higher costs make it less likely that the Cluster Resource Manager will move the replica when trying to balance the cluster

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

-Force <System.Management.Automation.SwitchParameter>

Continue without prompts

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-HasPersistedState <System.Management.Automation.SwitchParameter>

Specify the target replica set size for the managed service

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-HighKey <System.Int64>

Specify the upper bound of the partition key range.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-InstanceCount <System.Int32>

Specify the instance count for the managed service

Required? true

Position? named

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

-LowKey <System.Int64>

Specify the lower bound of the partition key range.

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

-Metric <Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric[]>

Specify the placement constraints of the managed service, as a string.

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

-MinInstanceCount <System.Int32>

Specify the minimum instance count for the managed service

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

-MinInstancePercentage <System.Int32>

Specify the minimum instance percentage for the managed service

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

-MinReplicaSetSize <System.Int32>

Specify the min replica set size for the managed service

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

-Name <System.String>

Specify the name of the managed service.

Required? true
Position? 3
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-PartitionCount <System.Int32>

Specify the number of partitions.

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

-PartitionName <System.String[]>

Indicates that the service uses the named partition scheme. Services using this model usually have data that can be bucketed, within a bounded set. Some common

examples of data fields used as named partition keys would be regions, postal codes, customer groups, or other business boundaries.

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

-PartitionSchemeNamed <System.Management.Automation.SwitchParameter>

Indicates that the service uses the named partition scheme. Services using this model usually have data that can be bucketed, within a bounded set. Some common

examples of data fields used as named partition keys would be regions, postal codes, customer groups, or other business boundaries.

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

-PartitionSchemeSingleton <System.Management.Automation.SwitchParameter>

Indicates that the service uses the singleton partition scheme. Singleton partitions are typically used when the service does not require any additional routing.

Required?	true
Position?	named
Default value	False
Accept pipeline input?	False

Accept wildcard characters? false

-PartitionSchemeUniformInt64 <System.Management.Automation.SwitchParameter>

Indicates that the service uses the UniformInt64 partition scheme. This means that each partition owns a range of int64 keys.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-PlacementConstraint <System.String>

Specify the placement constraints of the managed service, as a string.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-QuorumLossWaitDuration <System.TimeSpan>

Specify the quorum loss wait duration for the managed service. Duration represented in ISO 8601 format 'hh:mm:ss'

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ReplicaRestartWaitDuration <System.TimeSpan>

Specify the replica restart wait duration for the managed service. Duration represented in ISO 8601 format 'hh:mm:ss'

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

-ServicePackageActivationMode

<Microsoft.Azure.Commands.ServiceFabric.Models.ServicePackageActivationModeEnum>

Specify the default cost for a move. Higher costs make it less likely that the Cluster Resource Manager will move the replica when trying to balance the cluster

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

-ServicePlacementTimeLimit <System.TimeSpan>

Specify the service placement time limit for the managed service. Duration represented in ISO 8601 format 'hh:mm:ss'

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

Accept wildcard characters? false

-StandByReplicaKeepDuration <System.TimeSpan>

Specify the stand by replica duration for the managed service. Duration represented in ISO 8601 format 'hh:mm:ss'

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Stateful <System.Management.Automation.SwitchParameter>

Use for stateful service

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Stateless <System.Management.Automation.SwitchParameter>

Use for stateless service

Required? true

Position? named

Default value False

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? True (ByPropertyName)
Accept wildcard characters? false

-TargetReplicaSetSize <System.Int32>

Specify the target replica set size for the managed service

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

-Type <System.String>

Specify the service type name of the managed application, should exist in the application manifest.

Required? true
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

System.String

System.Collections.Hashtable

OUTPUTS

Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedService

NOTES

```

$resourceGroupName = "testRG"

$clusterName = "testCluster"

$appName = "testApp"

$serviceName = "testService1"

$serviceTypeName = "testStateless"

$statelessServiceMetric = New-Object -TypeName "Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric"
-ArgumentList @("metric1", "Low", 4)

New-AzServiceFabricManagedClusterService -ResourceGroupName $resourceGroupName -ClusterName $clusterName
-ApplicationName $appName -Name $serviceName -Type
    $serviceTypeName -Stateless -InstanceCount -1 -PartitionSchemeSingleton -Metric @($statelessServiceMetric)
-Verbose

```

This example will create a new stateless managed service "testService1" with instance count -1 (on all the nodes).

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

```

$resourceGroupName = "testRG"

$clusterName = "testCluster"

$appName = "testApp"

$serviceName = "testService2"

$serviceTypeName = "testStatefulType"

$partitionCount = 5

$partitionLowKey = 0

$partitionHighKey = 25

$statefulServiceMetric = New-Object -TypeName "Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceMetric"
-ArgumentList @("metric2", "Medium", 4, 2)

New-AzServiceFabricManagedClusterService -ResourceGroupName $resourceGroupName -ClusterName $clusterName
-ApplicationName $appName -Name $serviceName -Type
    $serviceTypeName -Stateful -TargetReplicaSetSize 5 -MinReplicaSetSize 3 -Metric @($statefulServiceMetric)
-PartitionSchemeUniformInt64 -PartitionCount $partitionCount
-LowKey $partitionLowKey -HighKey $partitionHighKey -Verbose

```

This example will create a new stateful managed service "testService2" with a target of 5 nodes.

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

```
$resourceGroupName = "testRG"
$clusterName = "testCluster"
$appName = "testApp"
$serviceName = "testService3"
$serviceName2 = "testService2"
$serviceTypeName = "testStateless"

$statefulService = Get-AzServiceFabricManagedClusterService -ResourceGroupName $resourceGroupName
-ClusterName $clusterName -ApplicationName $appName -Name
$serviceName2

$statefulServiceCorrelation = New-Object -TypeName
"Microsoft.Azure.Commands.ServiceFabric.Models.PSServiceCorrelation" -ArgumentList @("AlignedAffinity",
$statefulService.Id)

New-AzServiceFabricManagedClusterService -ResourceGroupName $resourceGroupName -ClusterName $clusterName
-ApplicationName $appName -Name $serviceName -Type
$serviceTypeName -Stateless -InstanceCount 3 -PartitionSchemeSingleton -Correlation @($statefulServiceCorrelation)
-Verbose
```

This example will create a new stateless managed service "testService3".

RELATED LINKS

Online

Version:

<https://learn.microsoft.com/powershell/module/az.servicefabric/new-azservicefabricmanagedclusterservice>