



## Windows PowerShell Get-Help on Cmdlet 'New-AzServiceFabricService'

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

### NAME

New-AzServiceFabricService

### SYNOPSIS

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

### SYNTAX

```
New-AzServiceFabricService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name] <System.String>
[-DefaultMoveCost {Zero | Low | Medium | High}] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-InstanceCount <System.Int32> -PartitionSchemeSingleton -Stateless -Type <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
New-AzServiceFabricService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>
[-ApplicationName] <System.String> [-Name] <System.String>
[-DefaultMoveCost {Zero | Low | Medium | High}] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-InstanceCount <System.Int32> -PartitionSchemeUniformInt64 -Stateless -Type <System.String> [-Confirm] [-WhatIf]
```

[<CommonParameters>]

New-AzServiceFabricService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>  
[-ApplicationName] <System.String> [-Name] <System.String>  
[-DefaultMoveCost {Zero | Low | Medium | High}] [-DefaultProfile  
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]  
-InstanceCount <System.Int32> -PartitionSchemeNamed -Stateless -Type <System.String> [-Confirm] [-WhatIf]  
[<CommonParameters>]

New-AzServiceFabricService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>  
[-ApplicationName] <System.String> [-Name] <System.String>  
[-DefaultMoveCost {Zero | Low | Medium | High}] [-DefaultProfile  
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]  
-MinReplicaSetSize <System.Int32> -PartitionSchemeSingleton [-QuorumLossWaitDuration <System.TimeSpan>]  
[-ReplicaRestartWaitDuration <System.TimeSpan>]  
[-StandByReplicaKeepDuration <System.TimeSpan>] -Stateful -TargetReplicaSetSize <System.Int32> -Type  
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzServiceFabricService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>  
[-ApplicationName] <System.String> [-Name] <System.String>  
[-DefaultMoveCost {Zero | Low | Medium | High}] [-DefaultProfile  
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]  
-MinReplicaSetSize <System.Int32> -PartitionSchemeUniformInt64 [-QuorumLossWaitDuration <System.TimeSpan>]  
[-ReplicaRestartWaitDuration <System.TimeSpan>]  
[-StandByReplicaKeepDuration <System.TimeSpan>] -Stateful -TargetReplicaSetSize <System.Int32> -Type  
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzServiceFabricService [-ResourceGroupName] <System.String> [-ClusterName] <System.String>  
[-ApplicationName] <System.String> [-Name] <System.String>  
[-DefaultMoveCost {Zero | Low | Medium | High}] [-DefaultProfile  
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]  
-MinReplicaSetSize <System.Int32> -PartitionSchemeNamed [-QuorumLossWaitDuration <System.TimeSpan>]  
[-ReplicaRestartWaitDuration <System.TimeSpan>]

[`-StandByReplicaKeepDuration` `<System.TimeSpan>`] `-Stateful` `-TargetReplicaSetSize` `<System.Int32>` `-Type` `<System.String>` [`-Confirm`] [`-WhatIf`] [`<CommonParameters>`]

## DESCRIPTION

This cmdlet allows to creating stateless or stateful services under the specified application. The service should exist 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 application.

Required? true

Position? 2

Default value None

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

`-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

-InstanceCount <System.Int32>

Specify the instance count for the service

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

-MinReplicaSetSize <System.Int32>

Specify the min replica set size for the service

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

-Name <System.String>

Specify the name of the service.

Required? true

Position? 3

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 |

-QuorumLossWaitDuration <System.TimeSpan>

Specify the quorum loss wait duration for the service

|                             |       |
|-----------------------------|-------|
| 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 service

|                             |       |
|-----------------------------|-------|
| 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

-StandByReplicaKeepDuration <System.TimeSpan>

Specify the stand by replica duration for the service

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

-TargetReplicaSetSize <System.Int32>

Specify the target replica set size for the 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 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

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.PSService

## NOTES

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

```
$resourceGroupName = "testRG"
```

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

```
$appName = "testApp"
```

```
$serviceName = "testApp~testService1"
```

```
$serviceTypeName = "testStateless"
```

```
New-AzServiceFabricService -ResourceGroupName $resourceGroupName -ClusterName $clusterName  
-ApplicationName $appName -Name $serviceName -Type $serviceTypeName  
-Stateless -InstanceCount -1 -PartitionSchemeSingleton -Verbose
```

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

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

```
$resourceGroupName = "testRG"
```

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

```
$appName = "testApp"
```

```
$serviceName = "testApp~testService2"
```

```
$serviceTypeName = "testStatefulType"
```

```
New-AzServiceFabricService -ResourceGroupName $resourceGroupName -ClusterName $clusterName  
-ApplicationName $appName -Name $serviceName -Type $serviceTypeName  
-Stateful -TargetReplicaSetSize 3 -MinReplicaSetSize 5
```

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

#### RELATED LINKS

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