



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

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

NAME

Set-AzServiceFabricManagedClusterApplication

SYNOPSIS

Update a service fabric managed application. This allows to update the application parameters and/or upgrade the application type version which will trigger an

application upgrade or other configuration only updates. Only supports ARM deployed applications.

SYNTAX

```
Set-AzServiceFabricManagedClusterApplication [-ResourceGroupName] <System.String> [-ClusterName]
<System.String> [-Name] <System.String> [[-ApplicationTypeVersion]
<System.String>] [-ApplicationParameter <System.Collections.Hashtable>] [-AsJob] [-ConsiderWarningAsError]
[-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DefaultServiceTypeMaxPercentUnhealthyPartitionsPerService <System.Int32>]
[-DefaultServiceTypeMaxPercentUnhealthyReplicasPerPartition <System.Int32>]
[-DefaultServiceTypeUnhealthyServicesMaxPercent <System.Int32>] [-FailureAction {Rollback
| Manual}] [-Force] [-ForceRestart] [-HealthCheckRetryTimeoutSec <System.Int32>] [-HealthCheckStableDurationSec
<System.Int32>] [-HealthCheckWaitDurationSec
```

<System.Int32>] [-InstanceCloseDelayDurationSec <System.Int32>] [-RecreateApplication]
[-ServiceTypeHealthPolicyMap <System.Collections.Hashtable>] [-Tag
<System.Collections.Hashtable>] [-UnhealthyDeployedApplicationsMaxPercent <System.Int32>]
[-UpgradeDomainTimeoutSec <System.Int32>] [-UpgradeMode {Monitored |
UnmonitoredAuto}] [-UpgradeReplicaSetCheckTimeoutSec <System.Int32>] [-UpgradeTimeoutSec <System.Int32>]
[-Confirm] [-WhatIf] [<CommonParameters>]

Set-AzServiceFabricManagedClusterApplication [[-ApplicationTypeVersion] <System.String>] [-ApplicationParameter
<System.Collections.Hashtable>] [-AsJob]

[-ConsiderWarningAsError] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-DefaultServiceTypeMaxPercentUnhealthyPartitionsPerService <System.Int32>]
[-DefaultServiceTypeMaxPercentUnhealthyReplicasPerPartition <System.Int32>]

[-DefaultServiceTypeUnhealthyServicesMaxPercent <System.Int32>] [-FailureAction {Rollback | Manual}] [-Force]
[-ForceRestart] [-HealthCheckRetryTimeoutSec

<System.Int32>] [-HealthCheckStableDurationSec <System.Int32>] [-HealthCheckWaitDurationSec <System.Int32>]
-InputObject

<Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedApplication> [-InstanceCloseDelayDurationSec
<System.Int32>] [-RecreateApplication]

[-ServiceTypeHealthPolicyMap <System.Collections.Hashtable>] [-Tag <System.Collections.Hashtable>]
[-UnhealthyDeployedApplicationsMaxPercent <System.Int32>]

[-UpgradeDomainTimeoutSec <System.Int32>] [-UpgradeMode {Monitored | UnmonitoredAuto}]
[-UpgradeReplicaSetCheckTimeoutSec <System.Int32>] [-UpgradeTimeoutSec

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

Set-AzServiceFabricManagedClusterApplication [[-ApplicationTypeVersion] <System.String>] [-ApplicationParameter
<System.Collections.Hashtable>] [-AsJob]

[-ConsiderWarningAsError] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-DefaultServiceTypeMaxPercentUnhealthyPartitionsPerService <System.Int32>]
[-DefaultServiceTypeMaxPercentUnhealthyReplicasPerPartition <System.Int32>]

[-DefaultServiceTypeUnhealthyServicesMaxPercent <System.Int32>] [-FailureAction {Rollback | Manual}] [-Force]
[-ForceRestart] [-HealthCheckRetryTimeoutSec

```

<System.Int32>] [-HealthCheckStableDurationSec <System.Int32>] [-HealthCheckWaitDurationSec <System.Int32>]
[-InstanceCloseDelayDurationSec <System.Int32>]
[-RecreateApplication] -ResourceId <System.String> [-ServiceTypeHealthPolicyMap <System.Collections.Hashtable>]
[-Tag <System.Collections.Hashtable>]
[-UnhealthyDeployedApplicationsMaxPercent <System.Int32>] [-UpgradeDomainTimeoutSec <System.Int32>]
[-UpgradeMode {Monitored | UnmonitoredAuto}]
[-UpgradeReplicaSetCheckTimeoutSec <System.Int32>] [-UpgradeTimeoutSec <System.Int32>] [-Confirm] [-WhatIf]
[<CommonParameters>]

```

DESCRIPTION

This cmdlet can be used to update application parameters and upgrade the application type version along with other configuration only updates. Updating the parameter

will only change the model in ARM side, only when a new type version is used, the command will trigger an application upgrade. The type version specified should

already be created in the cluster using New-AzServiceFabricManagedClusterApplicationTypeVersion .

PARAMETERS

-ApplicationParameter <System.Collections.Hashtable>

Specify the application parameters as key/value pairs. These parameters must exist in the application manifest.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ApplicationTypeVersion <System.String>

Specify the application type version

Required? false

Position? 3

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

-ConsiderWarningAsError <System.Management.Automation.SwitchParameter>

Indicates whether to treat a warning health event as an error event during health evaluation.

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

-DefaultServiceTypeMaxPercentUnhealthyPartitionsPerService <System.Int32>

Specifies the maximum percent of unhealthy partitions per service allowed by the health policy for the default service type to use for the monitored upgrade.

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

-DefaultServiceTypeMaxPercentUnhealthyReplicasPerPartition <System.Int32>

Specifies the maximum percent of unhealthy replicas per service allowed by the health policy for the default service type to use for the monitored upgrade.

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

-DefaultServiceTypeUnhealthyServicesMaxPercent <System.Int32>

Specifies the maximum percent of unhealthy services allowed by the health policy for the default service type to use for the monitored upgrade.

Required? false
Position? named

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

-FailureAction <Microsoft.Azure.Commands.ServiceFabric.Models.FailureAction>

Specifies the action to take if the monitored upgrade fails. The acceptable values for this parameter are Rollback or Manual.

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

-ForceRestart <System.Management.Automation.SwitchParameter>

Indicates that the service host restarts even if the upgrade is a configuration-only change.

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

-HealthCheckRetryTimeoutSec <System.Int32>

Specifies the duration, in seconds, after which Service Fabric retries the health check if the previous health check fails.

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

-HealthCheckStableDurationSec <System.Int32>

Specifies the duration, in seconds, that Service Fabric waits in order to verify that the application is stable before moving to the next upgrade domain or

completing the upgrade. This wait duration prevents undetected changes of health right after the health check is performed.

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

-HealthCheckWaitDurationSec <System.Int32>

Specifies the duration, in seconds, that Service Fabric waits before it performs the initial health check after it finishes the upgrade on the upgrade domain.

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

-InputObject <Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedApplication>

The managed application resource.

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

-InstanceCloseDelayDurationSec <System.Int32>

Specifies the duration in seconds, to wait before a stateless instance is closed, to allow the active requests to drain gracefully.

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

-Name <System.String>

Specify the name of the application

Required?	true
Position?	2
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-RecreateApplication <System.Management.Automation.SwitchParameter>

Determines whether the application should be recreated on update. If value=true, the rest of the upgrade policy parameters are not allowed.

Required?	false
Position?	named
Default value	False
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

-ResourceId <System.String>

Arm ResourceId of the managed application.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ServiceTypeHealthPolicyMap <System.Collections.Hashtable>

Specifies the map of the health policy to use for different service types as a hash table in the following format: @
{"ServiceTypeName" :

"MaxPercentUnhealthyPartitionsPerService,MaxPercentUnhealthyReplicasPerPartition,MaxPercentUnhealthyServices"}.

For example: @{ "ServiceTypeName01" = "5,10,5";

"ServiceTypeName02" = "5,5,5" }

Required? false

Position? named

Default value None

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

-UnhealthyDeployedApplicationsMaxPercent <System.Int32>

Specifies the maximum percentage of the application instances deployed on the nodes in the cluster that have a health state of error before the application health state for the cluster is error.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UpgradeDomainTimeoutSec <System.Int32>

Specifies the maximum time, in seconds, that Service Fabric takes to upgrade a single upgrade domain. After this period, the upgrade fails.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

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

The mode used to monitor health during a rolling upgrade. The values are Monitored, and UnmonitoredAutomatic. Page 10/15

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

-UpgradeReplicaSetCheckTimeoutSec <System.Int32>

Specifies the maximum time that Service Fabric waits for a service to reconfigure into a safe state, if not already in a safe state, before Service Fabric proceeds with the upgrade.

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

-UpgradeTimeoutSec <System.Int32>

Specifies the maximum time, in seconds, that Service Fabric takes for the entire upgrade. After this period, the upgrade fails.

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

System.String

System.Collections.Hashtable

Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedApplication

OUTPUTS

Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedApplication

NOTES

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

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

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

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

```
$version = "v2"
```

```
$packageUrl = "https://sftestapp.blob.core.windows.net/sftestapp/testAppType_v2.sfpkg"
```

```
New-AzServiceFabricManagedClusterApplicationTypeVersion -ResourceGroupName $resourceGroupName  
-ClusterName $clusterName -Name $appName -Version $version -PackageUrl  
$packageUrl -Verbose
```

```
Set-AzServiceFabricManagedClusterApplication -ResourceGroupName $resourceGroupName -ClusterName  
$clusterName -ApplicationTypeVersion $version -Name $appName  
-ApplicationParameter @{key0="value0";key1=$null;key2="value2"} -Tag @{tag0="updated"}
```

This example will start an managed application upgrade to update the type version to "v2" which was created with
New-AzServiceFabricManagedClusterApplicationTypeVersion . The application parameters used should be defined in the
application manifest.

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

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

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

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

```
Set-AzServiceFabricManagedClusterApplication -ResourceGroupName $resourceGroupName -ClusterName  
$clusterName -Name $appName -FailureAction Rollback
```

-ForceRestart:\$false -Verbose

This example will updates the FailureAction and sets ForceRestart to false.

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

```
$resourceGroupName = "testRG"

$clusterName = "testCluster"

$appName = "testApp"

$version = "v2"

$packageUrl = "https://sfttestapp.blob.core.windows.net/sfttestapp/testAppType_v2.sfpkg"

New-AzServiceFabricManagedClusterApplicationTypeVersion -ResourceGroupName $resourceGroupName
-ClusterName $clusterName -Name $appName -Version $version -PackageUrl
$packageUrl -Verbose

Set-AzServiceFabricManagedClusterApplication -ResourceGroupName $resourceGroupName -ClusterName
$clusterName -ApplicationTypeVersion $version -Name $appName
-ApplicationParameter @{key0="value0";key1=$null;key2="value2"} -HealthCheckStableDurationSec 0
-HealthCheckWaitDurationSec 0 -HealthCheckRetryTimeoutSec 0
-UpgradeDomainTimeoutSec 5000 -UpgradeTimeoutSec 7000 -FailureAction Rollback
-UpgradeReplicaSetCheckTimeoutSec 300 -ForceRestart
```

This example will start an application upgrade to update the type version to "v2" and also sets some upgrade policy parameters that will take effect from the current upgrade.

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

```
Set-AzServiceFabricManagedClusterApplication -ResourceGroupName $resourceGroupName -ClusterName
$clusterName -Name $appName -ApplicationParameter
@{key0="value0";key1=$null;key2="value2"}
```

This example updates the application parameters but these changes will only take effect until the next version upgrade to the application.

RELATED LINKS

Online

Version:

<https://learn.microsoft.com/powershell/module/az.servicefabric/set-azservicefabricmanagedclusterapplication>