Windows PowerShell Get-Help on Cmdlet 'Update-AzServiceFabricApplication'

PS:\>Get-HELP Update-AzServiceFabricApplication -Full

NAME

Update-AzServiceFabricApplication

SYNOPSIS

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

upgrade. Only supports ARM deployed applications.

SYNTAX

Update-AzServiceFabricApplication [-ResourceGroupName] <System.String> [-ClusterName] <System.String> [-Name] <System.String> [[-ApplicationTypeVersion]

<System.String>] [-ApplicationParameter <System.Collections.Hashtable>] [-ConsiderWarningAsError] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DefaultServiceTypeMaxPercentUnhealthyPartitionsPerService <System.Int32>]

[-DefaultServiceTypeMaxPercentUnhealthyReplicasPerPartition <System.Int32>] [-DefaultServiceTypeUnhealthyServicesMaxPercent <System.Int32>] [-FailureAction {Rollback

| Manual}] [-ForceRestart] [-HealthCheckRetryTimeoutSec <System.Int32>] [-HealthCheckStableDurationSec <System.Int32>] [-HealthCheckWaitDurationSec <System.Int32>]

[-MaximumNodeCount <System.Int64>] [-MinimumNodeCount <System.Int64>] [-ServiceTypeHealthPolicyMap

<System.Collections.Hashtable>]

[-UnhealthyDeployedApplicationsMaxPercent <System.Int32>] [-UpgradeDomainTimeoutSec <System.Int32>] [-UpgradeReplicaSetCheckTimeoutSec <System.Int32>]

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

Update-AzServiceFabricApplication [-ResourceId] <System.String> [[-ApplicationTypeVersion] <System.String>] [-ApplicationParameter <System.Collections.Hashtable>]

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

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

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

[-HealthCheckStableDurationSec <System.Int32>] [-HealthCheckWaitDurationSec <System.Int32>] [-MaximumNodeCount <System.Int64>] [-MinimumNodeCount <System.Int64>]

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

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

Update-AzServiceFabricApplication [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -InputObject

<Microsoft.Azure.Commands.ServiceFabric.Models.PSApplication> [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

This cmdlet can be used to update application parameters and upgrade the application type version. 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-AzServiceFabricApplicationTypeVersion .

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

-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 unhelthy 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 unhelthy 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 unhelthy 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

-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.PSApplication>

The application resource.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-MaximumNodeCount <System.Int64>

Specifies the maximum number of nodes on which to place an application

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-MinimumNodeCount <System.Int64>

Specifies the minimum number of nodes where Service Fabric will reserve capacity for this application

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

-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 application.

Required? true

Position? 0

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

-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

-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

Microsoft.Azure.Commands.ServiceFabric.Models.PSApplication

OUTPUTS

Microsoft.Azure.Commands.ServiceFabric.Models.PSApplication

NOTES

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

```
$resourceGroupName = "testRG"
$clusterName = "testCluster"
$appName = "testApp"
$version = "v2"
$packageUrl = "https://sftestapp.blob.core.windows.net/sftestapp/testAppType_v2.sfpkg"
New-AzServiceFabricApplicationTypeVersion -ResourceGroupName $resourceGroupName -ClusterName $clusterName -Name $appName -Version $version -PackageUrl $packageUrl
-Verbose
Update-AzServiceFabricApplication -ResourceGroupName $resourceGroupName -ClusterName $clusterName -ApplicationTypeVersion $version -Name $appName
-ApplicationParameter @{key0="value0";key1=$null;key2="value2"}
```

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

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

$resourceGroupName = "testRG"

$clusterName = "testCluster"

$appName = "testApp"

Update-AzServiceFabricApplication -ResourceGroupName $resourceGroupName -ClusterName $clusterName -Name $appName -MinimumNodeCount 1 -MaximumNodeCount 4 -Verbose

This example will update the minimum and maximum number of nodes restriction for the application.

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

$resourceGroupName = "testRG"

$clusterName = "testCluster"

$appName = "testApp"

$version = "v2"

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

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

-Verbose

Update-AzServiceFabricApplication -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 ----------

Update-AzServiceFabricApplication -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/update-azservicefabricapplication