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

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

NAME

New-AzServiceFabricManagedNodeType

SYNOPSIS

Create new node type resource.

SYNTAX

New-AzServiceFabricManagedNodeType [-ResourceGroupName] <System.String> [-ClusterName] <System.String> [-Name] <System.String> [-ApplicationEndPort <System.Nullable`1[System.Int32]>] [-ApplicationStartPort <System.Nullable`1[System.Int32]>] [-AsJob] [-Capacity <System.Collections.Hashtable>] [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DiskSize <System.Int32>] [-DiskType {Standard_LRS | StandardSSD_LRS | Premium_LRS}] [-EphemeralEndPort <System.Nullable`1[System.Int32]>] [-EphemeralStartPort <System.Nullable`1[System.Int32]>] -InstanceCount <System.Int32> [-IsStateless] [-MultiplePlacementGroup] [-PlacementProperty <System.Collections.Hashtable>] [-Primary] [-VmImageOffer <System.String>] [-VmImagePublisher <System.String>] [-VmImageSku <System.String>] [-VmImageVersion <System.String>] [-VmSize <System.String>] [-VmUserAssignedIdentity <System.String[]>] [-Confirm]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

Create new node type resource for an specific cluster.

PARAMETERS

-ApplicationEndPort <System.Nullable`1[System.Int32]>

Application End port of a range of ports.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ApplicationStartPort <System.Nullable`1[System.Int32]>

Application start port of a range of ports.

Required? false

Position? named

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

-Capacity <System.Collections.Hashtable>

Capacity tags applied to the nodes in the node type as key/value pairs, the cluster resource manager uses these tags to understand how much resource a node has.

Updating this will override the current values.

Required? false

Position? named

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

-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

-DiskSize <System.Int32>

Disk size for each vm in the node type in GBs. Default 100.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DiskType <Microsoft.Azure.Commands.ServiceFabric.Models.PSDiskType>

Managed data disk type. IOPS and throughput are given by the disk size, to see more information go to

https://learn.microsoft.com/en-us/azure/virtual-machines/disks-types. Default StandardSSD_LRS

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EphemeralEndPort <System.Nullable`1[System.Int32]>

Ephemeral end port of a range of ports.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EphemeralStartPort <System.Nullable`1[System.Int32]>

Ephemeral start port of a range of ports.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-InstanceCount <System.Int32>

The number of nodes in the node type.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IsStateless <System.Management.Automation.SwitchParameter>

Indicates if the node type can only host Stateless workloads.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-MultiplePlacementGroup <System.Management.Automation.SwitchParameter>

Indicates if scale set associated with the node type can be composed of multiple placement groups.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Specify the name of the node type.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PlacementProperty <System.Collections.Hashtable>

Placement tags applied to nodes in the node type as key/value pairs, which can be used to indicate where certain services (workload) should run. Updating this

will override the current values.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Primary <System.Management.Automation.SwitchParameter>

Specify if the node type is primary. On this node type will run system services. Only one node type should be marked as primary. Primary node type cannot be

deleted or changed for existing clusters.

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

-VmImageOffer <System.String>

The offer type of the Azure Virtual Machines Marketplace image. Default: WindowsServer.

Required? false

Position? named

Default value "WindowsServer"

Accept pipeline input? False

Accept wildcard characters? false

-VmImagePublisher <System.String>

The publisher of the Azure Virtual Machines Marketplace image. Default: MicrosoftWindowsServer.

Required? false

Position? named

Default value "MicrosoftWindowsServer"

Accept pipeline input? False

Accept wildcard characters? false

-VmImageSku <System.String>

The SKU of the Azure Virtual Machines Marketplace image. Default: 2019-Datacenter.

Required? false

Position? named

Default value "2019-Datacenter"

Accept pipeline input? False

Accept wildcard characters? false

-VmImageVersion <System.String>

The version of the Azure Virtual Machines Marketplace image. Default: latest.

Required? false

Position? named

Default value "latest"

Accept pipeline input? False

Accept wildcard characters? false

-VmSize <System.String>

The size of virtual machines in the pool. All virtual machines in a pool are the same size. Default: Standard_D2.

Required? false

Position? named

Default value "Standard_D2"

Accept pipeline input? False

Accept wildcard characters? false

-VmUserAssignedIdentity <System.String[]>

The list of user assigend identities associated with the virtual machine scale set under the node type. Each entry will be an ARM resource ids in the form:

'/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.ManagedIdentity/userAssignedIdentities/{identityName}'. Follow steps to

create the identity and add the role assignment with Service Fabric Resource Provider beforehand here:

https://learn.microsoft.com/en-us/azure/service-fabric/how-to-managed-identity-managed-cluster-virtual-machine-scale-sets

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

OUTPUTS

Microsoft.Azure.Commands.ServiceFabric.Models.PSManagedNodeType

NOTES

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

```
$rgName = "testRG"
$clusterName = "testCluster"
$NodeTypeName = "nt1"
    New-AzServiceFabricManagedNodeType -ResourceGroupName $rgName -ClusterName $clusterName -Name $NodeTypeName -Primary -InstanceCount 3
```

Create primary node type with 3 nodes.

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

```
$rgName = "testRG"
$clusterName = "testCluster"
$NodeTypeName = "nt1"
    New-AzServiceFabricManagedNodeType -ResourceGroupName $rgName -ClusterName $clusterName -Name $NodeTypeName -InstanceCount 5 -Primary -PlacementProperty
    @{NodeColor="Green";SomeProperty="5";} -Capacity @{ClientConnections="65536";} -ApplicationStartPort 20575 -ApplicationEndPort 20605 -EphemeralStartPort 20606
    -EphemeralEndPort 20861
```

Create primary node type with 5 nodes and specifying placement properties, capacities, application and ephemeral ports.

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

```
$rgName = "testRG"
$clusterName = "testCluster"
```

$NodeTypeName = "nt2"

New-AzServiceFabricManagedNodeType -ResourceGroupName $rgName -ClusterName $clusterName -Name $NodeTypeName -InstanceCount 10 -DiskType Premium_LRS -VmSize "Standard_DS2" -MultiplePlacementGroup

Create non primary node type with 10 nodes, premium disk type and multiple placement groups.

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

$rgName = "testRG"

$clusterName = "testCluster"

$NodeTypeName = "nt2"

$identityId = "/subscriptions/00000000-0000-0000-0000-00000000/resourceGroups/testRG/providers/Microsoft.ManagedIdentity/userAssignedIdentities/testIdentity"

New-AzServiceFabricManagedNodeType -ResourceGroupName $rgName -ClusterName $clusterName -Name $NodeTypeName -InstanceCount 5 -VmUserAssignedIdentity $identityId -IsStateless

Create node type with user assigned identity and marked to host stateless workload.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.servicefabric/new-azservicefabricmanagednodetype