



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

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

NAME

New-AzGalleryImageDefinition

SYNOPSIS

Create a gallery image definition.

SYNTAX

```
New-AzGalleryImageDefinition [-ResourceGroupName] <System.String> [-GalleryName] <System.String> [-Name]
<System.String> [-Location] <System.String> [-Architecture
                                     <System.String>] [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Description
<System.String>]
[-DisallowedDiskType <System.String[]>] [-EndOfLifeDate <System.DateTime>] [-Eula <System.String>] [-Feature
<Microsoft.Azure.Management.Compute.Models.GalleryImageFeature[]>] [-HyperVGeneration <System.String>]
[-MaximumMemory <System.Int32>] [-MaximumVCPU <System.Int32>]
[-MinimumMemory <System.Int32>] [-MinimumVCPU <System.Int32>] -Offer <System.String> -OsState {Generalized |
Specialized} -OsType {Windows | Linux}
[-PrivacyStatementUri <System.String>] -Publisher <System.String> [-PurchasePlanName <System.String>]
[-PurchasePlanProduct <System.String>] [-PurchasePlanPublisher
```

<System.String>] [-ReleaseNoteUri <System.String>] -Sku <System.String> [-Tag <System.Collections.Hashtable>]
[-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

Create a gallery image definition. The gallery image definition will default to 'HyperVGeneration: V2' and 'SecurityType: TrustedLaunchSupported' if

`-HyperVGeneration` and `-Feature @{Name: SecurityType}` is not set explicitly. Set SecurityType to 'None' to opt out of this defaulting (See Example 10).

PARAMETERS

-Architecture <System.String>

CPU architecture supported by an OS disk. Possible values are "X64" and "Arm64".

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

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

-Description <System.String>

The description of the gallery image Definition resource.

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

-DisallowedDiskType <System.String[]>

The disallowed disk types.

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

-EndOfLifeDate <System.DateTime>

The end of life date of the gallery Image Definition

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

-Eula <System.String>

The Eula agreement for the gallery Image Definition.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Feature <Microsoft.Azure.Management.Compute.Models.GalleryImageFeature[]>

A list of gallery image features. For SecurityType, acceptable inputs are: None, TrustedLaunchSupported, TrustedLaunch, ConfidentialVM, ConfidentialVMSupported,

TrustedandConfidentialVMSupported

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-GalleryName <System.String>

The name of the gallery.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-HyperVGeneration <System.String>

The hypervisor generation of the Virtual Machine. Applicable to OS disks only. Allowed values are V1 and V2.

Required? false

Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Location <System.String>

Resource location

Required? true
Position? 3
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-MaximumMemory <System.Int32>

The maximum of the recommended memory

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

-MaximumVCPU <System.Int32>

The maximum of the recommended CPU core

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

-MinimumMemory <System.Int32>

The minimum of the recommended memory

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

-MinimumVCPU <System.Int32>

The minimum of the recommended CPU core

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

-Name <System.String>

The name of the gallery image definition.

Required?	true
Position?	2
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Offer <System.String>

The name of the gallery Image Definition offer.

Required?	true
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)

Accept wildcard characters? false

-OsState <Microsoft.Azure.Management.Compute.Models.OperatingSystemStateTypes>

The state of OS

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-OsType <Microsoft.Azure.Management.Compute.Models.OperatingSystemTypes>

The type of OS

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PrivacyStatementUri <System.String>

The privacy statement uri.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Publisher <System.String>

The name of the gallery Image Definition publisher.

Required? true

Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-PurchasePlanName <System.String>

The ID for the purchase plan.

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

-PurchasePlanProduct <System.String>

The product ID for the purchase plan.

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

-PurchasePlanPublisher <System.String>

The publisher ID for the purchase plan.

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

-ReleaseNoteUri <System.String>

The release note uri.

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

-ResourceGroupName <System.String>

The name of the resource group.

Required?	true
Position?	0
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Sku <System.String>

The name of the gallery Image Definition SKU.

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

-Tag <System.Collections.Hashtable>

Resource tags

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)

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.Management.Compute.Models.OperatingSystemStateTypes

Microsoft.Azure.Management.Compute.Models.OperatingSystemTypes

System.DateTime

System.Collections.Hashtable

System.Int32

System.String[]

OUTPUTS

Microsoft.Azure.Commands.Compute.Automation.Models.PSGalleryImage

NOTES

Example 1: Create an image definition for specialized linux images

\$rgName = "myResourceGroup"

\$galleryName = "myGallery"

\$galleryImageDefinitionName = "myImage"

\$location = "eastus"

\$publisherName = "GreatPublisher"

\$offerName = "GreatOffer"

\$skuName = "GreatSku"

\$description = "My gallery"

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Specialized" -OsType "Linux" -Description $description
```

Creates a gallery image definition to contain image versions for specialized linux images. This will default the Gallery Image to HyperVGeneration V2 and Trusted

Launch as `HyperVGeneration` and `Feature SecurityType` is not set explicitly.

Example 2: Create an image definition for generalized linux images

\$rgName = "myResourceGroup"

\$galleryName = "myGallery"

\$galleryImageDefinitionName = "myImage"

\$location = "eastus"

\$publisherName = "GreatPublisher"

\$offerName = "GreatOffer"

\$skuName = "GreatSku"

\$description = "My gallery"

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -Description $description
```

Creates a gallery image definition to contain image versions for generalized linux images.

Example 3: Create an image definition for specialized windows images

\$rgName = "myResourceGroup"

\$galleryName = "myGallery"

```
$galleryImageDefinitionName = "myImage"
```

```
$location = "eastus"
```

```
$publisherName = "GreatPublisher"
```

```
$offerName = "GreatOffer"
```

```
$skuName = "GreatSku"
```

```
$description = "My gallery"
```

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Specialized" -OsType "Windows" -Description $description
```

Creates a gallery image definition to contain image versions for specialized windows images.

Example 4: Create an image definition for generalized windows images and set features.

```
$rgName = "myResourceGroup"
```

```
$galleryName = "myGallery"
```

```
$galleryImageDefinitionName = "myImage"
```

```
$location = "eastus"
```

```
$publisherName = "GreatPublisher"
```

```
$offerName = "GreatOffer"
```

```
$skuName = "GreatSku"
```

```
$description = "My gallery"
```

```
$IsHibernateSupported = @{Name='IsHibernateSupported';Value='True'}
```

```
$IsAcceleratedNetworkSupported = @{Name='IsAcceleratedNetworkSupported';Value='False'}
```

```
$ConfidentialVMSupported = @{Name='SecurityType';Value='ConfidentialVMSupported'}
```

```
$features = @($IsHibernateSupported,$IsAcceleratedNetworkSupported, $ConfidentialVMSupported)
```

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Windows" -Description $description -Feature  
$features -HyperVGeneration "V2"
```

Creates a gallery image definition to contain image versions for generalized windows images.

- Example 5: Create an image definition with plan information -

```
$rgName = "myResourceGroup"
```

```
$galleryName = "myGallery"
```

```
$galleryImageDefinitionName = "myImage"
```

```
$location = "eastus"
```

```
$publisherName = "GreatPublisher"
```

```
$offerName = "GreatOffer"
```

```
$skuName = "GreatSku"
```

```
$purchasePlanName = "myPlanName"
```

```
$purchasePlanProduct = "myPlanProduct"
```

```
$purchasePlanPublisher = "myPlanPublisher"
```

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -PurchasePlanName $purchasePlanName  
-PurchasePlanProduct $purchasePlanProduct  
-PurchasePlanPublisher $purchasePlanPublisher
```

Creates a gallery image definition for linux generalized images and define the plan name, product, and publisher. Only image versions that match the plan information can be added to this definition.

Example 6: Create an image definition and indicate end of life date

```
$rgName = "myResourceGroup"
```

```
$galleryName = "myGallery"
```

```
$galleryImageDefinitionName = "myImage"
```

```
$location = "eastus"
```

```
$publisherName = "GreatPublisher"
```

```
$offerName = "GreatOffer"
```

\$skuName = "GreatSku"

\$endOfLifeDate = "2024-08-02T00:00:00+00:00"

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -EndOfLifeDate $endOfLifeDate
```

This example has the end-of-life date for image definitions set to August 2, 2024 at midnight UTC. End-of-life dates can be specified for image definitions and image versions. Image definitions can still be used after the end-of-life dates.

Example 7: Create an image definition and recommend minimum and maximum CPU and memory (GB)

\$rgName = "myResourceGroup"

\$galleryName = "myGallery"

\$galleryImageDefinitionName = "myImage"

\$location = "eastus"

\$publisherName = "GreatPublisher"

\$offerName = "GreatOffer"

\$skuName = "GreatSku"

\$minMemory = 32

\$maxMemory = 128

\$minVCPU = 2

\$maxVCPU = 8

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -MinimumMemory $minMemory  
-MaximumMemory $maxMemory -MinimumVCPU $minVCPU -MaximumVCPU $maxVCPU
```

Creates a gallery image definition and recommends the minimum and maximum ranges for the CPU and memory that the image versions in this image definition support.

Image versions can still be used to create virtual machines with memory and vCPU settings outside the recommended ranges.

Example 8: Create an image definition and indicate which OS disk types are not recommended for the image

```
$rgName = "myResourceGroup"
```

```
$galleryName = "myGallery"
```

```
$galleryImageDefinitionName = "myImage"
```

```
$location = "eastus"
```

```
$publisherName = "GreatPublisher"
```

```
$offerName = "GreatOffer"
```

```
$skuName = "GreatSku"
```

```
$disallowedDiskTypes = @("Standard_LRS")
```

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name  
$galleryImageDefinitionName -Location $location -Publisher $publisherName  
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -DisallowedDiskType $disallowedDiskTypes
```

Creates a gallery image definition and indicate which OS disk types may not be compatible with image versions within this image definition. Image versions can still be used to create virtual machines with an OS disk that is one of the disallowed disk types.

Example 9: Create an image definition and provide the EULA, privacy statement URI, and release notes URI

```
$rgName = "myResourceGroup"
```

```
$galleryName = "myGallery"
```

```
$galleryImageDefinitionName = "myImage"
```

```
$location = "eastus"
```

```
$publisherName = "GreatPublisher"
```

```
$offerName = "GreatOffer"
```

```
$skuName = "GreatSku"
```

```
$eula = "https://myeula"
```

```
$privacyStatementUri = "https://mystatement"
```

```
$releaseNoteUri = "https://myreleasenotes"
```



```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name
$galleryImageDefinitionName -Location $location -Publisher $publisherName
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -Eula $eula -PrivacyStatementUri
$privacyStatementUri -ReleaseNoteUri $releaseNoteUri
```

Creates a gallery image definition for linux generalized images and specify either the string or path to an EULA agreement, privacy statement, and release notes tied to all image versions in the image definition.

Example 10: Create a gallery image definition with Standard SecurityType feature

```
$rgName = "myResourceGroup"
$galleryName = "myGallery"
$galleryImageDefinitionName = "myImage"
$location = "eastus"
$publisherName = "GreatPublisher"
$offerName = "GreatOffer"
$skuName = "GreatSku"

$Feature1 = @{Name='SecurityType';Value='None'}
$Features = @($Feature1)
```

```
New-AzGalleryImageDefinition -ResourceGroupName $rgName -GalleryName $galleryName -Name
$galleryImageDefinitionName -Location $location -Publisher $publisherName
-Offer $offerName -Sku $skuName -OsState "Generalized" -OsType "Linux" -Feature $Features
```

Create a gallery image definition with standard security type feature by providing 'None' as the value of the SecurityType feature.

