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

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

NAME

New-AzVmssConfig

SYNOPSIS

Creates a VMSS configuration object.

SYNTAX

New-AzVmssConfig [[-Overprovision] <System.Nullable`1[System.Boolean]>] [[-Location] <System.String>] [[-Extension] <Microsoft.Azure.Commands.Compute.Automation.Models.PSVirtualMachineScaleSetExtension[]>] [[-Tag] <System.Collections.Hashtable>] [[-SkuName] <System.String>] [[-SkuTier] <System.String>] [[-SkuCapacity] <System.Int32>] [[-UpgradePolicyMode] {Automatic | Manual | Rolling}] [[-OsProfile] <Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetOSProfile>] [[-StorageProfile] <Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetStorageProfile>] [[-NetworkInterfaceConfiguration] <Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetNetworkConfiguration[]>] [-AutomaticRepairAction <System.String>] [-AutomaticRepairGracePeriod <System.String>] [-BaseRegularPriorityCount <System.Int32>] [-BootDiagnostic <Microsoft.Azure.Management.Compute.Models.BootDiagnostics>] [-CapacityReservationGroupId

<System.String>] [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DisableAutoRollback <System.Boolean>]

[-EdgeZone <System.String>] [-EnableAutomaticOSUpgrade] [-EnableAutomaticRepair] [-EnableSecureBoot <System.Nullable`1[System.Boolean]>] [-EnableSpotRestore]

[-EnableUltraSSD] [-EnableVtpm <System.Nullable`1[System.Boolean]>] [-EncryptionAtHost] [-EvictionPolicy <System.String>] [-HealthProbeId <System.String>]

[-IdentityId <System.String[]>] -IdentityType {SystemAssigned | UserAssigned | SystemAssignedUserAssigned | None} [-ImageReferenceId <System.String>] [-LicenseType

<System.String>] [-MaxPrice <System.Double>] [-OrchestrationMode <System.String>] [-OSImageScheduledEventEnabled] [-OSImageScheduledEventNotBeforeTimeoutInMinutes

<System.String>] [-PlanName <System.String>] [-PlanProduct <System.String>] [-PlanPromotionCode <System.String>] [-PlanPublisher <System.String>]

[-PlatformFaultDomainCount <System.Int32>] [-Priority <System.String>] [-ProximityPlacementGroupId <System.String>] [-RegularPriorityPercentage <System.Int32>]

[-RollingUpgradePolicy <Microsoft.Azure.Management.Compute.Models.RollingUpgradePolicy>] [-ScaleInPolicy <System.String[]>] [-SecurityType {TrustedLaunch |

ConfidentialVM | Standard}] [-SharedGalleryImageId <System.String>] [-SinglePlacementGroup <System.Nullable`1[System.Boolean]>] [-SkipExtensionsOnOverprovisionedVMs]

[-SpotRestoreTimeout <System.String>] [-TerminateScheduledEventNotBeforeTimeoutInMinutes <System.Int32>] [-TerminateScheduledEvents] [-UserData <System.String>]

[-Zone <System.String[]>] [-ZoneBalance] [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The New-AzVmssConfig cmdlet creates a configurable local Virtual Manager Scale Set (VMSS) object.

Use the following cmdlets to configure the VMSS object: -

[Add-AzVmssNetworkInterfaceConfiguration](https://learn.microsoft.com/en-us/powershell/module/az.compute/add-azvmssnetworkinterfaceconfiguration) to set the network

profile.
 -

[Set-AzVmssOsProfile](https://learn.microsoft.com/en-us/powershell/module/az.compute/set-azvmssosprofile) to set the OS

profile.
 -

[Set-AzVmssStorageProfile](https://learn.microsoft.com/en-us/powershell/module/az.compute/set-azvmssstorageprofile) to set the storage profile.
 -

[Get-AzComputeResourceSku](https://learn.microsoft.com/en-us/powershell/module/az.compute/get-azcomputeresourcesku) can also be used to find out available virtual

machine sizes for your subscription and region.

See other cmdlets for virtual machine scale set here (https://learn.microsoft.com/en-us/powershell/module/az.compute/#vm-scale-sets).

 See Quickstart: Create a virtual machine scale set with Azure PowerShell (https://learn.microsoft.com/en-us/azure/virtual-machine-scale-sets/quick-create-powershell)for tutorial.

PARAMETERS

-AutomaticRepairAction <System.String>

Type of repair action (replace, restart, reimage) that will be used for repairing unhealthy virtual machines in the scale set. Default value is replace.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AutomaticRepairGracePeriod <System.String>

The amount of time for which automatic repairs are suspended due to a state change on VM. The grace time starts after the state change has completed. This helps

avoid premature or accidental repairs. The time duration should be specified in ISO 8601 format. The minimum allowed grace period is 30 minutes (PT30M), which is

also the default value. The maximum allowed grace period is 90 minutes (PT90M).

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-BaseRegularPriorityCount <System.Int32>

Specifies the minimum number of VMs that must be of Regular priority as a VMSS Flex instance scales out. This parameter is only valid for VMSS instances with

Flexible OrchestrationMode.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-BootDiagnostic <Microsoft.Azure.Management.Compute.Models.BootDiagnostics>

Specifies the virtual machine scale set boot diagnostics profile.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-CapacityReservationGroupId <System.String>

Id of the capacity reservation Group that is used to allocate.

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

-DisableAutoRollback <System.Boolean>

Disable Auto Rollback for Auto OS Upgrade Policy

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EdgeZone <System.String>

Sets the edge zone name. If set, the query will be routed to the specified edgezone instead of the main region.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableAutomaticOSUpgrade <System.Management.Automation.SwitchParameter>

Whether OS upgrades should automatically be applied to scale set instances in a rolling fashion when a newer version of the image becomes available.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnableAutomaticRepair <System.Management.Automation.SwitchParameter>

Enables automatic repairs on the virtual machine scale set.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableSecureBoot <System.Nullable`1[System.Boolean]>

Specifies whether secure boot should be enabled on the virtual machine.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableSpotRestore <System.Management.Automation.SwitchParameter>

Enables the Spot-Try-Restore feature where evicted VMSS SPOT instances will be tried to be restored opportunistically based on capacity availability and pricing

constraints

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableUltraSSD <System.Management.Automation.SwitchParameter>

Enables a capability to have one or more managed data disks with UltraSSD_LRS storage account type on the virtual machine scale set. Managed disks with storage

account type UltraSSD_LRS can be added to a VMSS only if this property is enabled.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableVtpm <System.Nullable`1[System.Boolean]>

Specifies whether vTPM should be enabled on the virtual machine.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EncryptionAtHost <System.Management.Automation.SwitchParameter>

This parameter will enable the encryption for all the disks including Resource/Temp disk at host itself. Default: The Encryption at host will be disabled unless

this property is set to true for the resource.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EvictionPolicy <System.String>

Specifies the eviction policy for the virtual machines in the scale set.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Extension <Microsoft.Azure.Commands.Compute.Automation.Models.PSVirtualMachineScaleSetExtension[]>

Specifies the extension information object for the VMSS. You can use the Add-AzVmssExtension cmdlet to add this object.

Required? false

Position? 10

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-HealthProbeId <System.String>

Specifies the ID of a load balancer probe used to determine the health of an instance in the virtual machine scale set. HealthProbeId is in the form of

'/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Network/loadBalancers/{loadBalancerName}/probes/{probeName}'.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IdentityId <System.String[]>

Specifies the list of user identities associated with the virtual machine scale set. The user identity references will be

ARM resource ids in the form:

'/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.ManagedIdentity/identities/{identityName}'

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IdentityType <System.Nullable`1[Microsoft.Azure.Management.Compute.Models.ResourceIdentityType]>

Specifies the type of identity used for the virtual machine scale set. The type 'SystemAssignedUserAssigned' includes both an implicitly created identity and a

set of user assigned identities. The type 'None' will remove any identities from the virtual machine scale set. The acceptable values for this parameter are: -

SystemAssigned

- UserAssigned

- SystemAssignedUserAssigned

- None

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ImageReferenceId <System.String>

Specified the gallery image unique id for vmss deployment. This can be fetched from gallery image GET call.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-LicenseType <System.String>

Specify the license type, which is for bringing your own license scenario.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Location <System.String>

Specifies the Azure location where the VMSS is created.

Required? false

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-MaxPrice <System.Double>

Specifies the maximum price you are willing to pay for a Spot VM/VMSS. This price is in US Dollars. This price will be compared with the current Spot price for

the VM size. Also, the prices are compared at the time of create/update of Spot VM/VMSS and the operation will only succeed if the maxPrice is greater than the

current Spot price. The maxPrice will also be used for evicting a Spot VM/VMSS if the current Spot price goes beyond the maxPrice after creation of VM/VMSS.

Possible values are: any decimal value greater than zero. Example: 0.01538. -1 indicates that the Spot VM/VMSS should not be evicted for price reasons. Also, the

default max price is -1 if it is not provided by you.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-NetworkInterfaceConfiguration

<Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetNetworkConfiguration[]>

Specifies the network profile object that contains the networking properties for the VMSS configuration. You can use the Add-AzVmssNetworkInterfaceConfiguration

cmdlet to add this object.

Required? false

Position? 9

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-OrchestrationMode <System.String>

Specifies the orchestration mode for the virtual machine scale set. Possible values: Uniform, Flexible

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-OSImageScheduledEventEnabled <System.Management.Automation.SwitchParameter>

Specifies whether the OS Image Scheduled event is enabled or disabled.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-OSImageScheduledEventNotBeforeTimeoutInMinutes <System.String>

The length of time a virtual machine being reimaged or having its OS upgraded will have to potentially approve the OS Image Scheduled Event before the event is

auto approved (timed out). The configuration is specified in ISO 8601 format, with the value set to 15 minutes (PT15M).

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-OsProfile <Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetOSProfile>

Specifies the operating system profile object that contains the operating system properties for the VMSS configuration. You can use the Set-AzVmssOsProfile cmdlet

to set this object.

Required? false

Position? 7

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Overprovision <System.Nullable`1[System.Boolean]>

Indicates whether the cmdlet overprovisions the VMSS.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PlanName <System.String>

Specifies the plan name.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PlanProduct <System.String>

Specifies the plan product.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PlanPromotionCode <System.String>

Specifies the plan promotion code.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PlanPublisher <System.String>

Specifies the plan publisher.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PlatformFaultDomainCount <System.Int32>

Fault Domain count for each placement group.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Priority <System.String>

The priority for the virtual machien in the scale set. Only supported values are 'Regular', 'Spot' and 'Low'. 'Regular' is for regular virtual machine. 'Spot' is

for spot virtual machine. 'Low' is also for spot virtual machine but is replaced by 'Spot'. Please use 'Spot' instead of 'Low'.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ProximityPlacementGroupId <System.String>

The resource id of the Proximity Placement Group to use with this scale set.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RegularPriorityPercentage <System.Int32>

Specifies the desired percentage of VMs, after the BaseRegularCount has been met, that are of Regular priority as the VMSS Flex instance scales out. This property

is only valid for VMSS instances with Flexible OrchestrationMode.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RollingUpgradePolicy <Microsoft.Azure.Management.Compute.Models.RollingUpgradePolicy>

Specifies the rolling upgrade policy.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ScaleInPolicy <System.String[]>

The rules to be followed when scaling-in a virtual machine scale set. Possible values are: 'Default', 'OldestVM' and 'NewestVM'. 'Default' when a virtual

machine scale set is scaled in, the scale set will first be balanced across zones if it is a zonal scale set. Then, it will be balanced across Fault Domains as

far as possible. Within each Fault Domain, the virtual machines chosen for removal will be the newest ones that are not protected from scale-in. 'OldestVM' when

a virtual machine scale set is being scaled-in, the oldest virtual machines that are not protected from scale-in will be chosen for removal. For zonal virtual

machine scale sets, the scale set will first be balanced across zones. Within each zone, the oldest virtual machines

that are not protected will be chosen for

removal. 'NewestVM' when a virtual machine scale set is being scaled-in, the newest virtual machines that are not protected from scale-in will be chosen for

removal. For zonal virtual machine scale sets, the scale set will first be balanced across zones. Within each zone, the newest virtual machines that are not

protected will be chosen for removal.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SecurityType <System.String>

Specifies the SecurityType of the virtual machine. It has to be set to any specified value to enable UefiSettings. Default: UefiSettings will not be enabled

unless this property is set.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SharedGalleryImageId <System.String>

Specified the shared gallery image unique id for vm deployment. This can be fetched from shared gallery image GET call.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SinglePlacementGroup <System.Nullable`1[System.Boolean]>

Specifies the single placement group.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SkipExtensionsOnOverprovisionedVMs <System.Management.Automation.SwitchParameter>

Specifies that the extensions do not run on the extra overprovisioned VMs.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-SkuCapacity <System.Int32>

Specifies the number of instances in the VMSS.

Required? false

Position? 5

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SkuName <System.String>

Specifies the size of all the instances of VMSS. Get-AzComputeResourceSku

(https://learn.microsoft.com/en-us/powershell/module/az.compute/get-azcomputeresourcesku)can be used to find out available sizes for your subscription and region.

Required? false

Position? 3

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SkuTier <System.String>

Specifies the tier of VMSS. The acceptable values for this parameter are: - Standard

- Basic

Required? false

Position? 4

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SpotRestoreTimeout <System.String>

Specifies timeout value expressed as an ISO 8601 time duration after which the platform will not try to restore the VMSS SPOT instances

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-StorageProfile <Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetStorageProfile>

Specifies the storage profile object that contains the disk properties for the VMSS configuration. You can use the Set-AzVmssStorageProfile cmdlet to set this

object.

Required? false

Position? 8

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

Key-value pairs in the form of a hash table. For example: @{key0="value0";key1=$null;key2="value2"}

Required? false

Position? 2

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TerminateScheduledEventNotBeforeTimeoutInMinutes <System.Int32>

Configurable length of time (in minutes) a Virtual Machine being deleted will have to potentially approve the Terminate Scheduled Event before the event is auto

approved (timed out).

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TerminateScheduledEvents <System.Management.Automation.SwitchParameter>

Enable the Terminate Scheduled events

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UpgradePolicyMode <System.Nullable`1[Microsoft.Azure.Management.Compute.Models.UpgradeMode]>

Specified the mode of an upgrade to virtual machines in the scale set. The acceptable values for this parameter are: -Automatic

- Manual

Required? false

Position? 6

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UserData <System.String>

UserData for the VM, which will be base-64 encoded. Customer should not pass any secrets in here.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Zone <System.String[]>

Specifies the zone list for the virtual machine scale set.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ZoneBalance <System.Management.Automation.SwitchParameter>

Whether to force strictly even Virtual Machine distribution cross x-zones in case there is zone outage.

Required? false

Position? named

Default value False

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.Nullable`1[[System.Boolean, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral,

PublicKeyToken=7cec85d7bea7798e]]

System.String

System.Collections.Hashtable

System.Int32

System.Nullable`1[[Microsoft.Azure.Management.Compute.Models.UpgradeMode,
Microsoft.Azure.Management.Compute, Version=23.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35]]

Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetOSProfile

Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetStorageProfile

Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetNetworkConfiguration[]

Microsoft.Azure.Management.Compute.Models.VirtualMachineScaleSetExtension[]

System.String[]

Microsoft.Azure.Management.Compute.Models.RollingUpgradePolicy

System.Management.Automation.SwitchParameter

Microsoft.Azure.Management.Compute.Models.BootDiagnostics

System.Nullable`1[[Microsoft.Azure.Management.Compute.Models.ResourceIdentityType, Microsoft.Azure.Management.Compute, Version=23.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35]]

OUTPUTS

Microsoft.Azure.Commands.Compute.Automation.Models.PSVirtualMachineScaleSet

NOTES

-------- Example 1: Create a VMSS configuration object --------

```
$VMSS = New-AzVmssConfig -Location $Loc -SkuCapacity 2 -SkuName "Standard_A0" -UpgradePolicyMode "Automatic" -NetworkInterfaceConfiguration $NetCfg `
    | Add-AzVmssNetworkInterfaceConfiguration -Name "Test" -Primary $True -IPConfiguration $IPCfg `
        | Set-AzVmssOsProfile -ComputerNamePrefix "Test" -AdminUsername $adminUsername -AdminPassword $AdminPassword `
    | Set-AzVmssStorageProfile -Name "Test" -OsDiskCreateOption "FromImage" -OsDiskCaching "None" `
        -ImageReferenceOffer $ImgRef.Offer -ImageReferenceSku $ImgRef.Skus -ImageReferenceVersion
```

```
$ImgRef.Version `
            -ImageReferencePublisher $ImgRef.PublisherName -VhdContainer $VHDContainer `
              | Add-AzVmssAdditionalUnattendContent -ComponentName  $AUCComponentName -Content  $AUCContent
-PassName  $AUCPassName -SettingName  $AUCSetting;

  New-AzVmss -ResourceGroupName $RGName -Name $VMSSName -VirtualMachineScaleSet $VMSS;
```

This example creates a VMSS configuration object. The first command uses the New-AzVmssConfig cmdlet to create a VMSS configuration object and stores the result in

the variable named $VMSS. The second command uses the New-AzVmss cmdlet to create a VMSS that uses the VMSS configuration object created in the first command.

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

```
New-AzVmssConfig -Location <String> -Overprovision $false -SkuCapacity 2 -SkuName 'Standard_A0' -SecurityType
"Standard" -Tag
  @{key0="value0";key1=$null;key2="value2"} -UpgradePolicyMode Automatic;
```

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

```
New-AzVmssConfig -Location <String> -SkuCapacity 2 -SkuName 'Standard_A0' -UpgradePolicyMode Automatic
-IdentityType SystemAssigned -SecurityType "Standard";
```

Example 4: Create a VMSS with the OS Image Scheduled Events enabled

```
$publisher = "MicrosoftWindowsServer";
```

```
    $offer = "WindowsServer";
    $imgSku = "2019-Datacenter";
    $version = "latest";
    $vmssName = 'vmss' + $rgname;
    $vmssSku = "Standard_D2s_v3";
    $vmssname = "vmss" + $rgname;
    $domainNameLabel = "d" + $rgname;
    $securityTypeStnd = "Standard";
    $username = <Username>;
    $password = <Password>;
    $securePassword = $password | ConvertTo-SecureString -AsPlainText -Force

    $credential = New-Object System.Management.Automation.PSCredential ($username, $securePassword);

    # SRP
    $stoname = 'sto' + $rgname;
    $stotype = 'Standard_GRS';
    New-AzStorageAccount -ResourceGroupName $rgname -Name $stoname -Location $loc -Type $stotype;
    $stoaccount = Get-AzStorageAccount -ResourceGroupName $rgname -Name $stoname;

    # NRP
    $subnet = New-AzVirtualNetworkSubnetConfig -Name ('subnet' + $rgname) -AddressPrefix "10.0.0.0/24";
       $vnet = New-AzVirtualNetwork -Force -Name ('vnet' + $rgname) -ResourceGroupName $rgname -Location $loc
-AddressPrefix "10.0.0.0/16" -Subnet $subnet;
    $vnet = Get-AzVirtualNetwork -Name ('vnet' + $rgname) -ResourceGroupName $rgname;
    $subnetId = $vnet.Subnets[0].Id;

    # Create VMSS with managed disk
    $timeoutValue = 'PT15M';
    $ipCfg = New-AzVmssIpConfig -Name 'test' -SubnetId $subnetId;
     $vmss = New-AzVmssConfig -Location $loc -SkuCapacity 2 -SkuName $vmssSku -OSImageScheduledEventEnabled
-OSImageScheduledEventNotBeforeTimeoutInMinutes $timeoutValue
    -UpgradePolicyMode "Automatic" -SecurityType $securityTypeStnd `
```

```
    | Add-AzVmssNetworkInterfaceConfiguration -Name 'test' -Primary $true -IPConfiguration $ipCfg `
    | Set-AzVmssOsProfile -ComputerNamePrefix 'test' -AdminUsername $username -AdminPassword $password `
    | Set-AzVmssStorageProfile -OsDiskCreateOption 'FromImage' -OsDiskCaching 'None' `
      -ImageReferenceOffer $offer -ImageReferenceSku $imgSku -ImageReferenceVersion $version `
      -ImageReferencePublisher $publisher;

$result = New-AzVmss -ResourceGroupName $rgname -Name $vmssName -VirtualMachineScaleSet $vmss;

$vmss = Get-AzVmss -ResourceGroupName $rgname -VMScaleSetName $vmssName;
                # $vmss.VirtualMachineProfile.ScheduledEventsProfile.OsImageNotificationProfile.Enable is the
OSImageScheduledEventEnabled flag.
# $vmss.VirtualMachineProfile.ScheduledEventsProfile.OsImageNotificationProfile.NotBeforeTimeout is the timeout value
'PT15M'.
```

Example 5: Create a Vmss with the security type TrustedLaunch

```
$rgname = "rganme";
 $loc = "eastus";
 New-AzResourceGroup -Name $rgname -Location $loc -Force;
# VMSS Profile & Hardware requirements for the TrustedLaunch default behavior.
$vmssSize = 'Standard_D4s_v3';
$PublisherName = "MicrosoftWindowsServer";
$Offer = "WindowsServer";
$SKU = "2016-datacenter-gensecond";
$securityType = "TrustedLaunch";
$enable = $true;
$disable = $false;
$extDefaultName = "GuestAttestation";
$vmGADefaultIDentity = "SystemAssigned";
```

```
    # NRP
    $subnet = New-AzVirtualNetworkSubnetConfig -Name ('subnet' + $rgname) -AddressPrefix "10.0.0.0/24";
        $vnet = New-AzVirtualNetwork -Force -Name ('vnet' + $rgname) -ResourceGroupName $rgname -Location $loc
-AddressPrefix "10.0.0.0/16" -Subnet $subnet;
    $vnet = Get-AzVirtualNetwork -Name ('vnet' + $rgname) -ResourceGroupName $rgname;
    $subnetId = $vnet.Subnets[0].Id;

    # New VMSS Parameters
    $vmssName1 = 'vmss1' + $rgname;
    $vmssName2 = 'vmss2' + $rgname;
    $vmssType = 'Microsoft.Compute/virtualMachineScaleSets';
    $adminUsername = <Username>;
    $adminPassword = <Password> | ConvertTo-SecureString -AsPlainText -Force;
    $imgRef = New-Object -TypeName 'Microsoft.Azure.Commands.Compute.Models.PSVirtualMachineImage';
    $imgRef.PublisherName = $PublisherName;
    $imgRef.Offer = $Offer;
    $imgRef.Skus = $SKU;
    $imgRef.Version = "latest";
    $ipCfg = New-AzVmssIpConfig -Name 'test' -SubnetId $subnetId;

    $vmss = New-AzVmssConfig -Location $loc -SkuCapacity 2 -SkuName $vmssSize -UpgradePolicyMode 'Manual' `
        | Add-AzVmssNetworkInterfaceConfiguration -Name 'test' -Primary $true -IPConfiguration $ipCfg `
                | Set-AzVmssOsProfile -ComputerNamePrefix 'test' -AdminUsername $adminUsername -AdminPassword
$adminPassword `
        | Set-AzVmssStorageProfile -OsDiskCreateOption 'FromImage' -OsDiskCaching 'ReadOnly' `
        -ImageReferenceOffer $imgRef.Offer -ImageReferenceSku $imgRef.Skus -ImageReferenceVersion $imgRef.Version `
        -ImageReferencePublisher $imgRef.PublisherName;

    # VMSS Creation using VMSSConfig for Trusted Launch SecurityType
    $vmss1 = Set-AzVmssSecurityProfile -VirtualMachineScaleSet $vmss -SecurityType $securityType;
        $result = New-AzVmss -ResourceGroupName $rgname -VMScaleSetName $vmssName1 -VirtualMachineScaleSet
$vmss1;
    $vmssGet = Get-AzVmss -ResourceGroupName $rgname -VMScaleSetName $vmssName1;
```

```
# Validate that for -SecurityType "TrustedLaunch" "-Vtpm" and -"SecureBoot" are "Enabled/true"
#$vmssGet.VirtualMachineProfile.SecurityProfile.UefiSettings.VTpmEnabled $true;
#$vmssGet.VirtualMachineProfile.SecurityProfile.UefiSettings.SecureBootEnabled $true;
```

This example Creates a new VMSS using VMSSConfig object for the Trusted Launch Security Type and validates flags SecureBoot and Vtpm as True by default.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.compute/new-azvmssconfig

Set-AzVmssOsProfile

Set-AzVmssStorageProfile

Add-AzVmssNetworkInterfaceConfiguration

Add-AzVmssExtension

New-AzVmss