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

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

NAME

Update-AzVM

SYNOPSIS

Updates the state of an Azure virtual machine.

SYNTAX

Update-AzVM [-Id] <System.String> [-AsJob] [-CapacityReservationGroupId <System.String>] [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableSecureBoot <System.Nullable`1[System.Boolean]>] [-EnableVtpm <System.Nullable`1[System.Boolean]>] [-EncryptionAtHost <System.Boolean>] [-HibernationEnabled] [-HostId <System.String>] [-IfMatch <System.String>] [-IfNoneMatch <System.String>] [-MaxPrice <System.Double>] [-NoWait] [-OsDiskWriteAccelerator <System.Boolean>] [-ProximityPlacementGroupId <System.String>] [-SecurityType <System.String>] [-Tag <System.Collections.Hashtable>] [-UltraSSDEnabled <System.Boolean>] [-UserData <System.String>] [-vCPUCountAvailable <System.Int32>] [-vCPUCountPerCore <System.Int32>] [-VirtualMachineScaleSetId <System.String>] -VM <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine> [-Confirm] [-WhatIf] [<CommonParameters>]

Update-AzVM [-ResourceGroupName] <System.String> [-AsJob] [-CapacityReservationGroupId <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableSecureBoot <System.Nullable`1[System.Boolean]>] [-EnableVtpm
<System.Nullable`1[System.Boolean]>] [-EncryptionAtHost <System.Boolean>] [-HibernationEnabled] [-HostId <System.String>] [-IdentityId <System.String[]>]
-IdentityType {SystemAssigned | UserAssigned | SystemAssignedUserAssigned | None} [-IfMatch <System.String>] [-IfNoneMatch <System.String>] [-MaxPrice
<System.Double>] [-NoWait] [-OsDiskWriteAccelerator <System.Boolean>] [-ProximityPlacementGroupId <System.String>] [-SecurityType <System.String>] [-Tag
<System.Collections.Hashtable>] [-UltraSSDEnabled <System.Boolean>] [-UserData <System.String>] [-vCPUCountAvailable <System.Int32>] [-vCPUCountPerCore
<System.Int32>] [-VirtualMachineScaleSetId <System.String>] -VM <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine> [-Confirm] [-WhatIf] [<CommonParameters>]

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[-vCPUCountPerCore <System.Int32>] [-VirtualMachineScaleSetId <System.String>] -VM <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine> [-Confirm] [-WhatIf]
[<CommonParameters>]

DESCRIPTION

The Update-AzVM cmdlet updates the state of an Azure virtual machine to the state of a virtual machine object.

PARAMETERS

-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

-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

-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

-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.Boolean>

EncryptionAtHost property can be used by user in the request to enable or disable the Host Encryption for the virtual machine or virtual machine scale set. This

will enable the encryption for all the disks including Resource/Temp disk at host itself.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-HibernationEnabled <System.Management.Automation.SwitchParameter>

The flag that enables or disables hibernation capability on the VM.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-HostId <System.String>

The Id of Host

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Id <System.String>

Specifies the resource ID of the virtual machine.

Required? true

Position? 0

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. 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? False

Accept wildcard characters? false

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

The type of identity used for the virtual machine. Valid values are SystemAssigned, UserAssigned, SystemAssignedUserAssigned, and None.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IfMatch <System.String>

used to make a request conditional for the PUT and other non-safe methods. The server will only return the requested resources if the resource matches one of the

listed ETag values. Omit this value to always overwrite the current resource. Specify the last-seen ETag value to prevent accidentally overwriting concurrent

changes.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IfNoneMatch <System.String>

Used to make a request conditional for the GET and HEAD methods. The server will only return the requested resources if none of the listed ETag values match the

current entity. Used to make a request conditional for the GET and HEAD methods. The server will only return the requested resources if none of the listed ETag

values match the current entity. Set to '*' to allow a new record set to be created, but to prevent updating an existing record set. Other values will result in

error from server as they are not supported.

Required? false

Position? named

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 low priority VM/VMSS. This price is in US Dollars. This price will be compared with the current low

priority price for the VM size. Also, the prices are compared at the time of create/update of low priority VM/VMSS and the operation will only succeed if the

maxPrice is greater than the current low priority price. The maxPrice will also be used for evicting a low priority VM/VMSS if the current low priority 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 low priority

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

-NoWait <System.Management.Automation.SwitchParameter>

Starts the operation and returns immediately, before the operation is completed. In order to determine if the operation has successfully been completed, use some

other mechanism.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-OsDiskWriteAccelerator <System.Boolean>

Specifies whether WriteAccelerator should be enabled or disabled on the OS disk.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ProximityPlacementGroupId <System.String>

The resource id of the Proximity Placement Group to use with this virtual machine.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceGroupName <System.String>

Specifies the name of the resource group of the virtual machine.

Required? true

Position? 0

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. By 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

-Tag <System.Collections.Hashtable>

Specifies the resources and resource groups can be tagged with a set of name-value pairs. Adding tags to resources enables you to group resources together across

resource groups and to create your own views. Each resource or resource group can have a maximum of 15 tags.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UltraSSDEnabled <System.Boolean>

The flag that enables or disables a capability to have one or more managed data disks with UltraSSD_LRS storage account type on the VM. Managed disks with storage

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

Required? false

Position? named

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

-vCPUCountAvailable <System.Int32>

Specifies the number of vCPUs available for the VM. When this property is not specified in the request body the default behavior is to set it to the value of

vCPUs available for that VM size exposed in api response of List all available virtual machine sizes in a region (https://learn.microsoft.com/en-us/rest/api/compute/resource-skus/list).

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-vCPUCountPerCore <System.Int32>

Specifies the vCPU to physical core ratio. When this property is not specified in the request body the default behavior is set to the value of vCPUsPerCore for

the VM Size exposed in api response of List all available virtual machine sizes in a region (https://learn.microsoft.com/en-us/rest/api/compute/resource-skus/list). Setting this property to 1 also means that hyper-threading is disabled.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VirtualMachineScaleSetId <System.String>

Id for the Virtual Machine ScaleSet that the virtual machine should be updated to.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VM <Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine>

Specifies a local virtual machine object. To obtain a virtual machine object, use the Get-AzVM cmdlet. This virtual machine object contains the updated state for

the virtual machine.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

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.Compute.Models.PSVirtualMachine

System.Boolean

OUTPUTS

Microsoft.Azure.Commands.Compute.Models.PSAzureOperationResponse

NOTES

---------- Example 1: Update a virtual machine ----------

Update-AzVM -ResourceGroupName "ResourceGroup11" -VM $VirtualMachine

This command updates the virtual machine, $VirtualMachine, in ResourceGroup11. The command updates it by using the virtual machine object stored in the

$VirtualMachine variable. To obtain a virtual machine object, use the Get-AzVM cmdlet.

Example 2: Update a virtual machine to disable hyperthreading.

```
$resourceGroupName = 'Resource Group Name>'
$vmname = 'Virtual Machine Name';
$domainNameLabel = "d1" + $rgname;
$vCPUsCoreInitial = 2;
$vCPUsAvailableInitial = 4;
$vCPUsCore1 = 1;
$vCPUsAvailable1 = 1;
$vmSize = 'Standard_D4s_v4';

$securePassword = 'Password' | ConvertTo-SecureString -AsPlainText -Force;
$user = "user";
$cred = New-Object System.Management.Automation.PSCredential ($user, $securePassword);
    $vm = New-AzVM -ResourceGroupName $rgname -Name $vmname -Credential $cred -DomainNameLabel $domainNameLabel -Size $vmSize -vCPUCountPerCore $vCPUsCoreInitial
-vCPUCountAvailable $vCPUsAvailableInitial;
            # The $vm.HardwareProfile.VmSizeProperties.VCPUsPerCore property is 2, and the $vm.HardwareProfile.VmSizeProperties.VCPUsAvailable property is 4.

 Update-AzVM -ResourceGroupName $rgname -VM $vm -vCPUCountAvailable $vCPUsAvailable1 -vCPUCountPerCore $vCPUsCore1;
            # The $vm.HardwareProfile.VmSizeProperties.VCPUsPerCore property is 1, and the $vm.HardwareProfile.VmSizeProperties.VCPUsAvailable property is 1.
# Hyperthreading is now disabled for this VM.
```

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.compute/update-azvm

Get-AzVM

New-AzVM

Remove-AzVM

Restart-AzVM

Start-AzVM

Stop-AzVM

New-AzVMConfig