



Windows PowerShell Get-Help on Cmdlet 'Get-AzVmss'

PS:\>Get-HELP Get-AzVmss -Full

NAME

Get-AzVmss

SYNOPSIS

Gets the properties of a VMSS.

SYNTAX

```
Get-AzVmss [[-ResourceGroupName] <System.String>] [[-VMScaleSetName] <System.String>] [-DefaultProfile  
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -InstanceView  
[-UserData] [<CommonParameters>]
```

```
Get-AzVmss [[-ResourceGroupName] <System.String>] [[-VMScaleSetName] <System.String>] [-DefaultProfile  
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -OSUpgradeHistory  
[<CommonParameters>]
```

```
Get-AzVmss [[-ResourceGroupName] <System.String>] [[-VMScaleSetName] <System.String>] [-DefaultProfile  
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]  
[<CommonParameters>]
```

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-ResourceId

<System.String>]

[<CommonParameters>]

DESCRIPTION

The Get-AzVmss cmdlet gets the model and instance view of a Virtual Machine Scale Set (VMSS). The model view is the user specified properties of the virtual machine

scale set. The instance view is the instance level status of the virtual machine scale set. Specify the InstanceView parameter to get only the instance view of a virtual machine scale set.

PARAMETERS

-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

-InstanceView <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet gets only the instance view of the virtual machine scale set.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-OSUpgradeHistory <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet lists the os upgrade history of the virtual machine scale set.

Required? true
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-ResourceGroupName <System.String>

Specifies the name of the Resource Group of the VMSS.

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

-ResourceId <System.String>

The ARM resource id specifying the specific virtual machine scale set object you want returned.

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

-UserData <System.Management.Automation.SwitchParameter>

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

Required? false
Position? named
Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VMSScaleSetName <System.String>

Specifies the name of the VMSS.

Required? false

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? true

<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.Compute.Automation.Models.PSVirtualMachineScaleSet

NOTES

----- Example 1: Get the properties of a VMSS -----

Get-AzVmss -ResourceGroupName "Group001" -VMScaleSetName "VMSS001"

ResourceGroupName : Group001

Sku :
Name : Standard_DS1_v2
Tier : Standard
Capacity : 2

UpgradePolicy :
Mode : Manual

VirtualMachineProfile :
OsProfile :
ComputerNamePrefix : test
AdminUsername : contoso
WindowsConfiguration :
ProvisionVMAgent : True
EnableAutomaticUpdates : True

StorageProfile :
ImageReference :
Publisher : MicrosoftWindowsServer
Offer : WindowsServer
Sku : 2016-Datacenter
Version : latest

OsDisk :
Caching : None
CreateOption : FromImage
ManagedDisk :
StorageAccountType : Premium_LRS

NetworkProfile :
NetworkInterfaceConfigurations[0] :
Name : Group001
Primary : True

```

EnableAcceleratedNetworking      : False
NetworkSecurityGroup             :
  Id                             : /subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/Group001
/providers/Microsoft.Network/networkSecurityGroups/Group001
  DnsSettings                    :
  IpConfigurations[0]           :
    Name                         : Group001
    Subnet                      :
      Id                        : /subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/group001
/providers/Microsoft.Network/virtualNetworks/Group001/subnets/Group001
    PrivateIpAddressVersion      : IPv4
    LoadBalancerBackendAddressPools[0] :
      Id                        : /subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/group001
/providers/Microsoft.Network/loadBalancers/Group001/backendAddressPools/Group001
      LoadBalancerInboundNatPools[0]   :
        Id                        : /subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/group001
/providers/Microsoft.Network/loadBalancers/Group001/inboundNatPools/Group001
        LoadBalancerInboundNatPools[1]   :
          Id                        : /subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/group001
/providers/Microsoft.Network/loadBalancers/Group001/inboundNatPools/Group001
          EnableIPForwarding          : False
ProvisioningState                    : Succeeded
Overprovision                        : True
Uniquelid                          : xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx
SinglePlacementGroup                 : False
Id                                  : /subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/Group001/
providers/Microsoft.Compute/virtualMachineScaleSets/VMSS001
Name                                : VMSS001
Type                                : Microsoft.Compute/virtualMachineScaleSets
Location                            : eastus
Tags                                : {}

```

Since the command does not specify the InstanceView

switch parameter, the cmdlet gets the model view of the virtual machine scale set.

----- Example 2: Get all Vmss in a resource group -----

Get-AzVmss -ResourceGroupName "Group001"

ResourceGroupName	Name	Location	Sku	Capacity	ProvisioningState
Group001	VMSS001	eastus	Standard_DS1_v2	2	Succeeded
Group001	VMSS002	eastus	Standard_A1	2	Succeeded

Get all Vmss in resource group "Group001"

----- Example 3: Get all Vmss in a subscription -----

Get-AzVmss

ResourceGroupName	Name	Location	Sku	Capacity	ProvisioningState
Group001	VMSS001	eastus	Standard_DS1_v2	2	Succeeded
Group001	VMSS002	eastus	Standard_A1	2	Succeeded
Group002	VMSS003	eastus	Standard_A1	1	Succeeded
Group002	VMSS004	eastus	Standard_DS1_v2	2	Succeeded

Get all Vmss in subscription.

----- Example 4: Get all Vmss using filtering -----

Get-AzVmss -Name VMSS00*

ResourceGroupName	Name	Location	Skus	Capacity	ProvisioningState
Group001	VMSS001	eastus	Standard_DS1_v2	2	Succeeded
Group001	VMSS002	eastus	Standard_A1	2	Succeeded
Group002	VMSS003	eastus	Standard_A1	1	Succeeded
Group002	VMSS004	eastus	Standard_DS1_v2	2	Succeeded

Get all Vmss in subscription that start with "VMSS00".

----- Example 5: Get the Vmss with a UserData value -----

```
Get-AzVmss -ResourceGroupName <RESOURCE GROUP NAME> -VMSSName <VMSS NAME>
-InstanceView:$false -UserData;
```

```
ResourceGroupName      : <RESOURCE GROUP NAME>
Sku                    :
Name                   : Standard_DS1_v2
Tier                   : Standard
Capacity               : 2
UpgradePolicy          :
Mode                   : Manual
ProvisioningState      : Succeeded
Overprovision          : True
DoNotRunExtensionsOnOverprovisionedVMs : False
UniqueId               : <UNIQUE ID>
SinglePlacementGroup   : False
Id                     : /subscriptions/<SUBSCRIPTION ID>/resourceGroups/<RESOURCE GROUP
NAME>/providers/Microsoft.Compute/virtualMachineScaleSets/<VMSS NAME>
Name                   : usdvmss
Type                   : Microsoft.Compute/virtualMachineScaleSets
Location               : eastus
```

Tags :
{ "azsecpack": "nonprod", "platformsettings.host_environment.service.platform_optedin_for_rootcerts": "true" }

VirtualMachineProfile :

OsProfile :
 ComputerNamePrefix : <PREFIX>
 AdminUsername : <USERNAME>
 WindowsConfiguration :
 ProvisionVMAgent : True
 EnableAutomaticUpdates : True

StorageProfile :

ImageReference :
 Publisher : MicrosoftWindowsServer
 Offer : WindowsServer
 Sku : 2016-Datacenter
 Version : latest
OsDisk :
 Caching : None
 CreateOption : FromImage
 DiskSizeGB : 127
 OsType : Windows
 ManagedDisk :
 StorageAccountType : Premium_LRS

NetworkProfile :

NetworkInterfaceConfigurations[0] :
 Name : <VMSS NAME>
 Primary : True
 EnableAcceleratedNetworking : False
 DnsSettings :
 IpConfigurations[0] :
 Name : <VMSS NAME>
 Subnet :

Id : /subscriptions/<SUBSCRIPTION ID>/resourceGroups/<RESOURCE GROUP

NAME>/providers/Microsoft.Network/virtualNetworks/<VMSS

NAME>/subnets/<VMSS NAME>

PrivateIPAddressVersion : IPv4

LoadBalancerBackendAddressPools[0] :

Id : /subscriptions/<SUBSCRIPTION ID>/resourceGroups/<RESOURCE GROUP

NAME>/providers/Microsoft.Network/loadBalancers/<VMSS

NAME>/backendAddressPools/<VMSS NAME>

LoadBalancerInboundNatPools[0] :

Id : /subscriptions/<SUBSCRIPTION ID>/resourceGroups/<RESOURCE GROUP

NAME>/providers/Microsoft.Network/loadBalancers/<VMSS

NAME>/inboundNatPools/<VMSS NAME>

LoadBalancerInboundNatPools[1] :

Id : /subscriptions/<SUBSCRIPTION ID>/resourceGroups/<RESOURCE GROUP

NAME>/providers/Microsoft.Network/loadBalancers/<VMSS

NAME>/inboundNatPools/<VMSS NAME>

EnableIPForwarding : False

ExtensionProfile :

Extensions[0] :

Name : Microsoft.Azure.Security.AntimalwareSignature.AntimalwareConfiguration

Publisher : Microsoft.Azure.Security.AntimalwareSignature

Type : AntimalwareConfiguration

TypeHandlerVersion : 2.0

AutoUpgradeMinorVersion : True

EnableAutomaticUpgrade : True

Settings : {}

Extensions[1] :

Name : Microsoft.Azure.Geneva.GenevaMonitoring

Publisher : Microsoft.Azure.Geneva

Type : GenevaMonitoring

TypeHandlerVersion : 2.0

AutoUpgradeMinorVersion : True

EnableAutomaticUpgrade : True

Settings : {}

UserData : dQBwAGQAYQB0AGUAIAB2AG0AcwBzAA==

The UserData value must be Base64 encoded. This command assumes you have created a Vmss with a UserData value.

Example 6: Get a Virtual Machine Scale Set via its ResourceId.

```
$rgname = "ResourceGroupName";  
$loc = "eastus";  
  
New-AzResourceGroup -Name $rgname -Location $loc;  
  
$vmssSize = 'Standard_D4s_v3';  
$vmssName1 = 'vmss1' + $rgname;  
$imageName = "Win2019Datacenter";  
$adminUsername = <Username>;  
$adminPassword = <Password> | ConvertTo-SecureString -AsPlainText -Force;  
$cred = New-Object System.Management.Automation.PSCredential($adminUsername, $adminPassword);  
  
$result = New-AzVmss -ResourceGroupName $rgname -Credential $cred -VMScaleSetName $vmssName1  
-ImageName $imageName;  
  
$vmss = Get-AzVmss -ResourceGroupName $rgname -VMScaleSetName $vmssName1;  
$vmssId = $vmss.Id;  
$vmssGet = Get-AzVmss -ResourceId $vmssId;
```

Make a Vmss then get that same Vmss via its ARM resource Id.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.compute/get-azvmss>

New-AzVmss

Remove-AzVmss

Restart-AzVmss

Set-AzVmss

Start-AzVmss

Stop-AzVmss

Update-AzVmss