



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

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

NAME

Get-AzVM

SYNOPSIS

Gets the properties of a virtual machine.

SYNTAX

```
Get-AzVM [-ResourceGroupName] <System.String> [-Name] <System.String> [[-Status]] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DisplayHint
{Compact | Expand}] [-UserData] [<CommonParameters>]
```

	Get-AzVM	[[-Status]]	[-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]			-Location
<System.String> [-UserData]			
[<CommonParameters>]			

```
Get-AzVM [[-ResourceGroupName] <System.String>] [[-Name] <System.String>] [[-Status]] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-UserData]
[<CommonParameters>]
```

Get-AzVM [[-Status]] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -ResourceId
<System.String>
[<CommonParameters>]

DESCRIPTION

The Get-AzVM cmdlet gets the model view or the instance view of an Azure virtual machine. The model view is the user specified properties of the virtual machine. The instance view is the instance level status of the virtual machine. Specify the Status parameter to get the instance view of a virtual machine instead of the model view which is the default.

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

-DisplayHint <Microsoft.Azure.Commands.Compute.Models.DisplayHintType>

Determines how the virtual machine object is displayed. Valid values are: -- Compact: displays only top level properties

-- Expand: displays all properties in all levels

Required?	false
Position?	named
Default value	None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Location <System.String>

Specifies a location for the virtual machines to list.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <System.String>

Specifies the name of the virtual machine to get.

Required? false

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? true

-ResourceGroupName <System.String>

Specifies the name of a resource group.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? true

-ResourceId <System.String>

Id of the VM

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

-Status <System.Management.Automation.SwitchParameter>

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

Required? false
Position? 2
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-UserData <System.Management.Automation.SwitchParameter>

UserData for the VM, 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

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see [about_CommonParameters \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.String

System.Uri

Microsoft.Azure.Commands.Compute.Models.DisplayHintType

OUTPUTS

Microsoft.Azure.Commands.Compute.Models.PSVirtualMachine

Microsoft.Azure.Commands.Compute.Models.PSVirtualMachineInstanceView

NOTES

----- Example 1: Get model and instance view properties -----

Get-AzVM -ResourceGroupName "ResourceGroup11" -Name "VirtualMachine07"

ResourceGroupName : ResourceGroup11

Id :

/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/ResourceGroup11/providers/M

icrosoft.Compute/virtualMachines/VirtualMachine07

VmId : 00000000-0000-0000-0000-000000000000

Name : VirtualMachine07

Type : Microsoft.Compute/virtualMachines

Location : eastus

```

Tags           : {"creationSource":"acs-VirtualMachine07"}
AvailabilitySetReference : {Id}
DiagnosticsProfile  : {BootDiagnostics}
Extensions         : {linuxdiagnostic, waitforleader}
HardwareProfile     : {VmSize}
NetworkProfile      : {NetworkInterfaces}
OSProfile           : {ComputerName, AdminUsername, LinuxConfiguration, Secrets}
ProvisioningState    : Succeeded
StorageProfile       : {ImageReference, OsDisk, DataDisks}

```

This command gets the model view and instance view properties of the virtual machine named VirtualMachine07.

----- Example 2: Get instance view properties -----

```
Get-AzVM -ResourceGroupName "ResourceGroup11" -Name "VirtualMachine07" -Status
```

```

ResourceGroupName    : ResourceGroup11
Name                 : VirtualMachine07
Disks[0]             :
  Name               : VirtualMachine07-osdisk
Statuses[0]          :
  Code               : ProvisioningState/succeeded
  Level              : Info
  DisplayStatus       : Provisioning succeeded
  Time               : 3/1/2019 12:59:30 AM
Extensions[0]         :
  Name               : linuxdiagnostic
  Type               : Microsoft.OSTCExtensions.LinuxDiagnostic
  TypeHandlerVersion : 2.3.9029
Statuses[0]          :
  Code               : ProvisioningState/succeeded
  Level              : Info

```

DisplayStatus : Provisioning succeeded
Message : Invalid config settings given: Empty storageAccountName. Install will proceed, but enable
can't proceed, in which case it's still considered a success as it's an external error.

Extensions[1] :
Name : waitforleader
Type : Microsoft.OSTCExtensions.CustomScriptForLinux
TypeHandlerVersion : 1.5.4
Statuses[0] :
Code : ProvisioningState/succeeded
Level : Info
DisplayStatus : Provisioning succeeded
Message : Command is finished.

---stdout---

waiting for leader.mesos

waiting for leader.mesos

waiting for leader.mesos

waiting for leader.mesos

waiting for leader.mesos

waiting for leader.mesos

PING leader.mesos (xxx.xx.x.x) 56(84) bytes of data.

64 bytes from xxx.xx.x.x: icmp_seq=1 ttl=64 time=0.022 ms

--- leader.mesos ping statistics ---

1 packets transmitted, 1 received, 0% packet loss, time 0ms

rtt min/avg/max/mdev = 0.022/0.022/0.022/0.000 ms

leader.mesos up

---errout---

ping: unknown host leader.mesos

ping: unknown host leader.mesos

ping: unknown host leader.mesos

ping: unknown host leader.mesos

ping: unknown host leader.mesos

ping: unknown host leader.mesos

PlatformFaultDomain : 0

PlatformUpdateDomain : 0

VMAgent :

VmAgentVersion : 2.2.37

ExtensionHandlers[0] :

Type : Microsoft.OSTCExtensions.LinuxDiagnostic

TypeHandlerVersion : 2.3.9029

Status :

Code : ProvisioningState/succeeded

Level : Info

DisplayStatus : Ready

Message : Plugin enabled

ExtensionHandlers[1] :

Type : Microsoft.OSTCExtensions.CustomScriptForLinux

TypeHandlerVersion : 1.5.4

Status :

Code : ProvisioningState/succeeded

Level : Info

DisplayStatus : Ready

Message : Plugin enabled

Statuses[0] :

Code : ProvisioningState/succeeded

Level : Info

DisplayStatus : Ready

Message : Guest Agent is running

Time : 3/1/2019 2:04:12 AM

Statuses[0] :

Code : ProvisioningState/succeeded

Level : Info

DisplayStatus : Provisioning succeeded

Time : 3/1/2019 1:01:57 AM

Statuses[1] :

Code : PowerState/running

Level : Info

DisplayStatus : VM running

This command gets properties of the virtual machine named VirtualMachine07. This command specifies the Status parameter. Therefore, the command gets only the instance view properties.

Example 3: Get properties for all virtual machines in a resource group

Get-AzVM -ResourceGroupName "ResourceGroup11"

ResourceGroupName	Name	Location	VmSize	OsType	NIC
ResourceGroup11	test1	eastus	Standard_DS1_v2	Windows	test1
ResourceGroup11	test2	westus	Standard_DS1_v2	Windows	test2
ResourceGroup11	test3	eastus	Standard_DS1_v2	Windows	test3

This command gets properties for all the virtual machines in the resource group named ResourceGroup11.

--- Example 4: Get all virtual machines in your subscription ---

Get-AzVM

ResourceGroupName	Name	Location	VmSize	OsType	NIC
TEST1	test1	eastus	Standard_DS1_v2	Windows	test1
TEST1	test2	westus	Standard_DS1_v2	Windows	test2
TEST1	test3	eastus	Standard_DS1_v2	Windows	test3

TEST2	test4	westus Standard_DS1_v2 Windows	test4
TEST2	test5	eastus Standard_DS1_v2 Windows	test5

This command gets all the virtual machines in your subscription.

----- Example 5: Get all virtual machines in the location. -----

Get-AzVM -Location "westus"

ResourceGroupName	Name	Location	VmSize	OsType	NIC
-----	----	-----	-----	-----	----
TEST1	test2	westus	Standard_DS1_v2	Windows	test2
TEST2	test4	westus	Standard_DS1_v2	Windows	test4

This command gets all the virtual machines in West US region.

----- Example 6: Get all virtual machines using filtering -----

Get-AzVM -Name test*

ResourceGroupName	Name	Location	VmSize	OsType	NIC
-----	----	-----	-----	-----	----
TEST1	test1	eastus	Standard_DS1_v2	Windows	test1
TEST1	test2	westus	Standard_DS1_v2	Windows	test2
TEST1	test3	eastus	Standard_DS1_v2	Windows	test3
TEST2	test4	westus	Standard_DS1_v2	Windows	test4
TEST2	test5	eastus	Standard_DS1_v2	Windows	test5

This command gets all virtual machines with names start with "test"

----- Example 7: Get VM with UserData value -----

```
Get-AzVM -ResourceGroupName <Resource Group Name> -Name <VM Name> -UserData;
```

ResourceGroupName : <>

Id : /subscriptions/<Subscription Id>/resourceGroups/<Resource Group Name>/providers/Microsoft
.Compute/virtualMachines/<VM Name>

VmId : <VM Id>

Name : <VM Name>

Type : Microsoft.Compute/virtualMachines

Location : eastus

Tags :

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

Extensions : {Microsoft.Azure.Geneva.GenevaMonitoring,
Microsoft.Azure.Security.AntimalwareSignature.AntimalwareConfiguration}

HardwareProfile : {VmSize}

NetworkProfile : {NetworkInterfaces}

OSProfile : {ComputerName, AdminUsername, WindowsConfiguration, Secrets, AllowExtensionOperations,
RequireGuestProvisionSignal}

ProvisioningState : Succeeded

StorageProfile : {ImageReference, OsDisk, DataDisks}

UserData : bm90IGVuY29kZWQ=

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

RELATED LINKS

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

New-AzVM

Remove-AzVM

Restart-AzVM

Start-AzVM

Stop-AzVM

Update-AzVM