



## Windows PowerShell Get-Help on Cmdlet 'Get-AzResource'

**PS:\>Get-HELP Get-AzResource -Full**

### NAME

Get-AzResource

### SYNOPSIS

Gets resources.

### SYNTAX

```

Get-AzResource [-ApiVersion <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExpandProperties] [-Name <System.String>] [-ODataQuery <System.String>] [-Pre] [-ResourceGroupName
<System.String>] [-ResourceType <System.String>] [-TagName
<System.String>] [-TagValue <System.String>] [<CommonParameters>]

```

```

Get-AzResource [-ApiVersion <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-ExpandProperties] [-Name <System.String>] [-ODataQuery <System.String>] [-Pre] [-ResourceGroupName
<System.String>] [-ResourceType <System.String>] -Tag
<System.Collections.Hashtable> [<CommonParameters>]

```

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

[-ExpandProperties] [-ODataQuery <System.String>] [-Pre] -ResourceId <System.String> [<CommonParameters>]

## DESCRIPTION

The Get-AzResource cmdlet gets Azure resources.

## PARAMETERS

-ApiVersion <System.String>

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

-ExpandProperties <System.Management.Automation.SwitchParameter>

When specified, expands the properties of the resource.

Required? false

Position? named

Default value            False  
Accept pipeline input?    False  
Accept wildcard characters? false

-Name <System.String>

The name of the resource(s) to be retrieved. This parameter supports wildcards at the beginning and/or end of the string.

Required?                false  
Position?                named  
Default value            None  
Accept pipeline input?    False  
Accept wildcard characters? true

-ODataQuery <System.String>

Required?                false  
Position?                named  
Default value            None  
Accept pipeline input?    False  
Accept wildcard characters? false

-Pre <System.Management.Automation.SwitchParameter>

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

-ResourceGroupName <System.String>

The resource group the resource(s) that is retrieved belongs in. This parameter supports wildcards at the beginning and/or end of the string.

|                             |       |
|-----------------------------|-------|
| Required?                   | false |
| Position?                   | named |
| Default value               | None  |
| Accept pipeline input?      | False |
| Accept wildcard characters? | true  |

**-ResourceId <System.String>**

Specifies the fully qualified resource ID, as in the following example

```
`/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/providers/Microsoft.Compute/virtualMachines`
```

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

**-ResourceType <System.String>**

The resource type of the resource(s) to be retrieved. For example, Microsoft.Compute/virtualMachines

|                             |       |
|-----------------------------|-------|
| Required?                   | false |
| Position?                   | named |
| Default value               | None  |
| Accept pipeline input?      | False |
| Accept wildcard characters? | false |

**-Tag <System.Collections.Hashtable>**

Gets resources that have the specified Azure tag. Enter a hash table with a Name key or Name and Value keys. Wildcard characters are not supported. A "tag" is a

name-value pair that you can apply to resources and resource groups. Use tags to categorize your resources, such as by department or cost center, or to track

notes or comments about the resources. To add a tag to a resource, use the Tag parameter of the New-AzResource or Set-AzResource cmdlets. To create a predefined

tag, use the New-AzTag cmdlet. For help with hash tables in Windows PowerShell, run 'Get-Help about\_Hashtables'.

|                             |       |
|-----------------------------|-------|
| Required?                   | true  |
| Position?                   | named |
| Default value               | None  |
| Accept pipeline input?      | False |
| Accept wildcard characters? | false |

**-TagName** <System.String>

The key in the tag of the resource(s) to be retrieved.

|                             |       |
|-----------------------------|-------|
| Required?                   | false |
| Position?                   | named |
| Default value               | None  |
| Accept pipeline input?      | False |
| Accept wildcard characters? | false |

**-TagValue** <System.String>

The value in the tag of the resource(s) to be retrieved.

|                             |       |
|-----------------------------|-------|
| Required?                   | false |
| Position?                   | named |
| Default value               | None  |
| 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

## OUTPUTS

Microsoft.Azure.Commands.ResourceManager.Cmdlets.SdkModels.PSResource

## NOTES

--- Example 1: Get all resources in the current subscription ---

Get-AzResource | Format-Table

| Name    | ResourceGroupName  | ResourceType                            | Location |
|---------|--------------------|-----------------------------------------|----------|
| ----    | -----              | -----                                   | -----    |
| testVM  | testRG             | Microsoft.Compute/virtualMachines       | westus   |
| disk    | testRG             | Microsoft.Compute/disks                 | westus   |
| nic     | testRG             | Microsoft.Network/networkInterfaces     | westus   |
| nsg     | testRG             | Microsoft.Network/networkSecurityGroups | westus   |
| ip      | testRG             | Microsoft.Network/publicIPAddresses     | westus   |
| vnet    | testRG             | Microsoft.Network/virtualNetworks       | westus   |
| testKV  | otherRG            | Microsoft.KeyVault/vaults               | eastus   |
| storage | otherResourceGroup | Microsoft.Storage/storageAccounts       | eastus   |
| testVM2 | otherResourceGroup | Microsoft.Compute/virtualMachines       | eastus   |

This command gets all of the resources in the current subscription.

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

```
Get-AzResource -ResourceGroupName testRG | Format-Table
```

| Name   | ResourceGroupName | ResourceType                            | Location |
|--------|-------------------|-----------------------------------------|----------|
| testVM | testRG            | Microsoft.Compute/virtualMachines       | westus   |
| disk   | testRG            | Microsoft.Compute/disks                 | westus   |
| nic    | testRG            | Microsoft.Network/networkInterfaces     | westus   |
| nsg    | testRG            | Microsoft.Network/networkSecurityGroups | westus   |
| ip     | testRG            | Microsoft.Network/publicIPAddresses     | westus   |
| vnet   | testRG            | Microsoft.Network/virtualNetworks       | westus   |

This command gets all of the resources in the resource group "testRG".

Example 3: Get all resources whose resource group matches the provided wildcard

```
Get-AzResource -ResourceGroupName other* | Format-Table
```

| Name    | ResourceGroupName  | ResourceType                      | Location |
|---------|--------------------|-----------------------------------|----------|
| testKV  | otherRG            | Microsoft.KeyVault/vaults         | eastus   |
| storage | otherResourceGroup | Microsoft.Storage/storageAccounts | eastus   |
| testVM2 | otherResourceGroup | Microsoft.Compute/virtualMachines | eastus   |

This command gets all of the resources whose resource group they belong in beings with "other".

----- Example 4: Get all resources with a given name -----

Get-AzResource -Name testVM | Format-List

Name : testVM

ResourceGroupName : testRG

ResourceType : Microsoft.Compute/virtualMachines

Location : westus

ResourceId

:

/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/testRG/providers/Microsoft.Compute/virtualMachines/testVM

Tags :

| Name | Value |
|------|-------|
|------|-------|

|       |       |
|-------|-------|
| ===== | ===== |
|-------|-------|

|      |    |
|------|----|
| Dept | IT |
|------|----|

|      |      |
|------|------|
| Year | 2002 |
|------|------|

|        |          |
|--------|----------|
| Status | Approved |
|--------|----------|

This command gets all of the resources whose resource name is "testVM".

Example 5: Get all resources whose name matches the provided wildcard

Get-AzResource -Name test\* | Format-Table

| Name | ResourceGroupName | ResourceType | Location |
|------|-------------------|--------------|----------|
|------|-------------------|--------------|----------|

|      |       |       |       |
|------|-------|-------|-------|
| ---- | ----- | ----- | ----- |
|------|-------|-------|-------|

|        |        |                                   |        |
|--------|--------|-----------------------------------|--------|
| testVM | testRG | Microsoft.Compute/virtualMachines | westus |
|--------|--------|-----------------------------------|--------|

|        |         |                           |        |
|--------|---------|---------------------------|--------|
| testKV | otherRG | Microsoft.KeyVault/vaults | eastus |
|--------|---------|---------------------------|--------|

|         |                    |                                   |        |
|---------|--------------------|-----------------------------------|--------|
| testVM2 | otherResourceGroup | Microsoft.Compute/virtualMachines | eastus |
|---------|--------------------|-----------------------------------|--------|

This command gets all of the resources whose resource name begins with "test".

---- Example 6: Get all resources of a given resource type ----



Get-AzResource -ResourceType Microsoft.Compute/virtualMachines | Format-Table

| Name    | ResourceGroupName  | ResourceType                      | Location |
|---------|--------------------|-----------------------------------|----------|
| testVM  | testRG             | Microsoft.Compute/virtualMachines | westus   |
| testVM2 | otherResourceGroup | Microsoft.Compute/virtualMachines | eastus   |

This command gets all of the resources in the current subscriptions that are virtual machines.

----- Example 7: Get a resource by resource id -----

```
Get-AzResource -ResourceId
/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/testRG/providers/Microsoft.Compute/virtualMachines
/testVM

Name           : testVM
ResourceGroupName : testRG
ResourceType    : Microsoft.Compute/virtualMachines
Location       : westus

ResourceId
/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/testRG/providers/Microsoft.Compute/virtualMachines
/testVM

Tags
:
Name Value
=====
Dept  IT
Year  2002
Status Approved
```

This command gets the resource with the provided resource id, which is a virtual machine called "testVM" in the resource group "testRG".

## RELATED LINKS

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

Move-AzResource

New-AzResource

Remove-AzResource

Set-AzResource