



Windows PowerShell Get-Help on Cmdlet 'Invoke-AzRestMethod'

PS:\>Get-HELP Invoke-AzRestMethod -Full

NAME

Invoke-AzRestMethod

SYNOPSIS

Construct and perform HTTP request to Azure resource management endpoint only

SYNTAX

```
Invoke-AzRestMethod -ApiVersion <System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-Method {GET | POST | PUT | PATCH | DELETE}] [-Name <System.String[]>] [-Payload <System.String>]
[-ResourceGroupName <System.String>] [-ResourceProviderName
<System.String>] [-ResourceType <System.String[]>] [-SubscriptionId <System.String>] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
Invoke-AzRestMethod [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Method {GET | POST |
PUT |
PATCH | DELETE}] -Path <System.String> [-Payload <System.String>] [-Confirm] [-WhatIf] [<CommonParameters>]
```

Invoke-AzRestMethod [-Uri] <System.Uri> [-AsJob] [-DefaultProfile
 <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Method
 {GET | POST | PUT | PATCH | DELETE}] [-Payload <System.String>] [-ResourceId <System.Uri>] [-Confirm] [-WhatIf]
 [<CommonParameters>]

DESCRIPTION

Construct and perform HTTP request to Azure resource management endpoint only

PARAMETERS

-ApiVersion <System.String>

Api Version

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Required? false

Position? named

Default value False

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

-Method <System.String>

Http Method

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

-Name <System.String[]>

list of Target Resource Name

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

-Path <System.String>

Path of target resource URL. Hostname of Resource Manager should not be added.

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

-Payload <System.String>

JSON format payload

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

-ResourceGroupName <System.String>

Target Resource Group Name

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

-ResourceId <System.Uri>

Identifier URI specified by the REST API you are calling. It shouldn't be the resource id of Azure Resource Manager.

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

-ResourceProviderName <System.String>

Target Resource Provider Name

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

Accept wildcard characters? false

-ResourceType <System.String[]>

List of Target Resource Type

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SubscriptionId <System.String>

Target Subscription Id

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Uri <System.Uri>

Uniform Resource Identifier of the Azure resources. The target resource needs to support Azure AD authentication and the access token is derived according to

resource id. If resource id is not set, its value is derived according to built-in service suffixes in current Azure Environment.

Required? true

Position? 1

Default value None

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.string

OUTPUTS

Microsoft.Azure.Commands.Profile.Models.PSHttpResponse

----- Example 1 -----

Invoke-AzRestMethod -Path

"/subscriptions/{subscription}/resourcegroups/{resourcegroup}/providers/microsoft.operationalinsights/workspaces/{workspace}?api-version={API}" -Method GET

Headers : {[Cache-Control, System.String[]], [Pragma, System.String[]], [x-ms-request-id, System.String[]], [Strict-Transport-Security, System.String[]].}

Version : 1.1

StatusCode : 200

Method : GET

Content : {
 "properties": {
 "source": "Azure",
 "customerId": "{customerId}",
 "provisioningState": "Succeeded",
 "sku": {
 "name": "pergb2018",
 "maxCapacityReservationLevel": 3000,
 "lastSkuUpdate": "Mon, 25 May 2020 11:10:01 GMT"
 },
 "retentionInDays": 30,
 "features": {
 "legacy": 0,
 "searchVersion": 1,
 "enableLogAccessUsingOnlyResourcePermissions": true
 },
 },
}

```

"workspaceCapping": {
  "dailyQuotaGb": -1.0,
  "quotaNextResetTime": "Thu, 18 Jun 2020 05:00:00 GMT",
  "dataIngestionStatus": "RespectQuota"
},
"enableFailover": false,
"publicNetworkAccessForIngestion": "Enabled",
"publicNetworkAccessForQuery": "Enabled",
"createdDate": "Mon, 25 May 2020 11:10:01 GMT",
"modifiedDate": "Mon, 25 May 2020 11:10:02 GMT"
},

```

"id":

"/subscriptions/{subscription}/resourcegroups/{resourcegroup}/providers/microsoft.operationalinsights/workspaces/{workspace}",

```

"name": "{workspace}",
"type": "Microsoft.Operationallnsights/workspaces",
"location": "eastasia",
"tags": {}
}

```

Get log analytics workspace by path. It only supports management plane API and Hostname of Azure Resource Manager is added according to Azure environment setting.

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

Invoke-AzRestMethod <https://graph.microsoft.com/v1.0/me>

Headers : {[Date, System.String[]], [Cache-Control, System.String[]], [Transfer-Encoding, System.String[]], [Strict-Transport-Security, System.String[]].}

Version : 1.1

StatusCode : 200

Method : GET

Content : {"@odata.context":"https://graph.microsoft.com/v1.0/\$metadata#users/\$entity","businessPhones":[".....]}

Get current signed in user via MicrosoftGraph API. This example is equivalent to `Get-AzADUser -SignedIn`.

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

\$subscriptionId = (Get-AzContext).Subscription.ID

Invoke-AzRestMethod -SubscriptionId \$subscriptionId -ResourceGroupName "test-group" -ResourceProviderName
Microsoft.AppPlatform -ResourceType Spring,apps -Name
"test-spring-service" -ApiVersion 2020-07-01 -Method GET

Headers : {[Cache-Control, System.String[]], [Pragma, System.String[]], [Vary, System.String[]], [x-ms-request-id,
System.String[]].}

Version : 1.1

StatusCode : 200

Method : GET

Content : {"value":{"properties":{"public":true,"url":"https://test-spring-service-demo.azuremicroservices.io","provisioni
ngState":"Succeeded","activeDeploymentName":"default","fqdn":"test-spring-service.azuremicroservices.io","httpsOn
ly":false,"createdTime":"2022-06-22T02:57:13.272Z","temporaryDisk":{"sizeInGB":5,"mountPath":"/tmp"},"pers
istentDisk":{"sizeInGB":0,"mountPath":"/persistent"},"type":"Microsoft.AppPlatform/Spring/apps","identity
":null,"location":"eastus","id":"/subscriptions/\$subscriptionId/resourceGroups/test-group/providers/Microsoft.AppPlatform/Spri
ng/test-spring-service/apps/
demo","name":"demo"},"properties":{"publ
ic":false,"provisioningState":"Succeeded","activeDeploymentName":"deploy01","fqdn":"test-spring-service.azuremicr
oservices.io","httpsOnly":false,"createdTime":"2022-06-22T07:46:54.9Z","temporaryDisk":{"sizeInGB":5,"moun
tPath":"/tmp"},"persistentDisk":{"sizeInGB":0,"mountPath":"/persistent"},"type":"Microsoft.AppPlatform/Sp
ring/apps","identity":null,"location":"eastus","id":"/subscriptions/\$subscriptionId/r
esourceGroups/test-group/providers/Microsoft.AppPlatform/Spring/test-spring-service/apps/pwsh01","name":"pwsh01"

```
1"]}]}
```

List apps under spring service "test-spring-service"

----- Example 4 -----

```
$subscriptionId = (Get-AzContext).Subscription.ID
```

```
Invoke-AzRestMethod -SubscriptionId $subscriptionId -ResourceGroupName "test-group" -ResourceProviderName  
Microsoft.AppPlatform -ResourceType Spring -Name  
"test-spring-service","demo" -ApiVersion 2020-07-01 -Method GET
```

```
Headers : {[Cache-Control, System.String[]], [Pragma, System.String[]], [Vary, System.String[]], [x-ms-request-id,  
System.String[]].}
```

```
Version : 1.1
```

```
StatusCode : 200
```

```
Method : GET
```

```
Content : {"properties":{"public":true,"url":"https://test-spring-service-demo.azuremicroservices.io","provisioningState":"
```

```
Succeeded","activeDeploymentName":"default","fqdn":"test-spring-service.azuremicroservices.io","httpsOnly":false,  
"createdTime":"2022-06-22T02:57:13.272Z","temporaryDisk":{"sizeInGB":5,"mountPath":"/tmp"},"persistentDisk  
":{"sizeInGB":0,"mountPath":"/persistent"},"type":"Microsoft.AppPlatform/Spring/apps","identity":null,"lo  
cation":"eastus","id":"/subscriptions/$subscriptionId/resourceGroups/test-group/pr  
oviders/Microsoft.AppPlatform/Spring/test-spring-service/apps/demo","name":"demo"}
```

Get app "demo" under Spring cloud service "test-spring-service"

----- Example 5 -----

```
# Replace *** with real values
```

```
$payload = @{{principalId="***"; resourceId="***"; appRoleId="***"}} | ConvertTo-Json -Depth 3
```

```
Invoke-AzRestMethod -Method POST -Uri https://graph.microsoft.com/v1.0/servicePrincipals/***/appRoleAssignedTo
```

-Payload \$payload

Call Microsoft Graph API to assign App Role by constructing a hashtable, converting to a JSON string, and passing the payload to ``Invoke-AzRestMethod``.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.accounts/invoke-azrestmethod>