



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

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

NAME

Get-AzMetric

SYNOPSIS

Gets the metric values of a resource.

SYNTAX

```
Get-AzMetric [-ResourceId] <System.String> [-MetricName] <System.String[]> [-AggregationType {None | Average |
Count | Minimum | Maximum | Total}] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DetailedOutput]
[-Dimension <System.String[]>] [-EndTime
<System.DateTime>] [-MetricFilter <System.String>] [-MetricNamespace <System.String>] [-OrderBy <System.String>]
[-ResultType {Data | Metadata}] [-StartTime
<System.DateTime>] [-TimeGrain <System.TimeSpan>] [-Top <System.Nullable`1[System.Int32]>]
[<CommonParameters>]
```

```
Get-AzMetric [-ResourceId] <System.String> [[-MetricName] <System.String[]>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DetailedOutput]
[-Dimension <System.String[]>] [-EndTime
```

<System.DateTime>] [-MetricFilter <System.String>] [-StartTime <System.DateTime>] [-TimeGrain <System.TimeSpan>]
[<CommonParameters>]

DESCRIPTION

The Get-AzMetric cmdlet gets the metric values for a specified resource.

PARAMETERS

-AggregationType <System.Nullable`1[Microsoft.Azure.Management.Monitor.Models.AggregationType]>

The aggregation type of the query

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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

-DetailedOutput <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet displays detailed output. By default, output is summarized.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Dimension <System.String[]>

The metric dimensions to query metrics for

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EndTime <System.DateTime>

Specifies the end time of the query in local time. The default is the current time.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-MetricFilter <System.String>

Specifies the metric dimension filter to query metrics for.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-MetricName <System.String[]>

Specifies an array of names of metrics.

Required? false
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-MetricNamespace <System.String>

Specifies the metric namespace to query metrics for.

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

-OrderBy <System.String>

Specifies the aggregation to use for sorting results and the direction of the sort (Example: sum asc).

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

-ResourceId <System.String>

Specifies the resource ID of the metric.

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

-ResultType <System.Nullable`1[Microsoft.Azure.Management.Monitor.Models.ResultType]>

Specifies the result type to be returned (metadata or data).

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-StartTime <System.DateTime>

Specifies the start time of the query in local time. The default is the current local time minus one hour.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TimeGrain <System.TimeSpan>

Specifies the time grain of the metric as a TimeSpan object in the format hh:mm:ss.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Top <System.Nullable`1[System.Int32]>

Specifies the maximum number of records to retrieve (default:10), to be specified with \$filter.

Required? false

Position? named

Default value None

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.TimeSpan

System.Nullable`1[[Microsoft.Azure.Management.Monitor.Models.AggregationType,

Microsoft.Azure.Management.Monitor, Version=0.21.0.0, Culture=neutral,

PublicKeyToken=31bf3856ad364e35]]

System.DateTime

System.Nullable`1[[System.Int32, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral,

PublicKeyToken=7cec85d7bea7798e]]

System.Nullable`1[[Microsoft.Azure.Management.Monitor.Models.ResultType, Microsoft.Azure.Management.Monitor,

Version=0.21.0.0, Culture=neutral,

PublicKeyToken=31bf3856ad364e35]]

System.String[]

System.Management.Automation.SwitchParameter

OUTPUTS

Microsoft.Azure.Commands.Insights.OutputClasses.PSMetric

NOTES

More information about the supported metrics may be found at:

<https://learn.microsoft.com/azure/azure-monitor/platform/metrics-supported>

----- Example 1: Get a metric with summarized output -----

```
Get-AzMetric -ResourceId
"/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/
website3" -TimeGrain
00:01:00

DimensionName :
DimensionValue :
Name          : AverageResponseTime
EndTime       : 3/20/2015 6:40:46 PM
MetricValues  : {Microsoft.Azure.Insights.Models.MetricValue, Microsoft.Azure.Insights.Models.MetricValue,
                Microsoft.Azure.Insights.Models.MetricValue, Microsoft.Azure.Insights.Models.MetricValue...}
Properties    : {}
```

/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/
website3

StartTime : 3/20/2015 5:40:00 PM

TimeGrain : 00:01:00

Unit : Seconds

DimensionName :

DimensionValue :

Name : AverageMemoryWorkingSet

EndTime : 3/20/2015 6:40:46 PM

MetricValues : {Microsoft.Azure.Insights.Models.MetricValue, Microsoft.Azure.Insights.Models.MetricValue,
Microsoft.Azure.Insights.Models.MetricValue, Microsoft.Azure.Insights.Models.MetricValue...}

Properties : {}

ResourceId :

/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/
website3

StartTime : 3/20/2015 5:40:00 PM

TimeGrain : 00:01:00

Unit : Bytes

This command gets the metric values for website3 with a time grain of 1 minute.

----- Example 2: Get a metric with detailed output -----

Get-AzMetric -ResourceId

"/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/
website3" -TimeGrain

00:01:00 -DetailedOutput

MetricValues :

Average : 0

Count : 1

Last :

Maximum :
Minimum :
Properties :
Timestamp : 3/20/2015 6:37:00 PM
Total : 0

Average : 0.106
Count : 1
Last :

Maximum :
Minimum :
Properties :
Timestamp : 3/20/2015 6:39:00 PM
Total : 0.106

Average : 0.064
Count : 1
Last :

Maximum :
Minimum :
Properties :
Timestamp : 3/20/2015 6:41:00 PM
Total : 0.064

Properties :

DimensionName :

DimensionValue :

Name : AverageResponseTime

EndTime : 3/20/2015 6:43:33 PM

ResourceId :

/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/
website3

StartTime : 3/20/2015 5:43:00 PM

TimeGrain : 00:01:00

Unit : Seconds

This command gets the metric values for website3 with a time grain of 1 minute. The output is detailed.

---- Example 3: Get detailed output for a specified metric ----

```
Get-AzMetric -ResourceId  
"/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/  
website3" -MetricName  
"Requests" -TimeGrain 00:01:00 -DetailedOutput
```

MetricValues :

Average : 1

Count : 1

Last :

Maximum :

Minimum :

Properties :

Timestamp : 3/20/2015 6:39:00 PM

Total : 1

Average : 1

Count : 1

Last :

Maximum :

Minimum :

Properties :

Timestamp : 3/20/2015 6:41:00 PM

Total : 1

Average : 0

Count : 1

Last :

Maximum :

Minimum :

Properties :

Timestamp : 3/20/2015 6:43:00 PM

Total : 0

Average : 1

Count : 1

Last :

Maximum :

Minimum :

Properties :

Timestamp : 3/20/2015 6:44:00 PM

Total : 1

Average : 0

Count : 1

Last :

Maximum :

Minimum :

Properties :

Timestamp : 3/20/2015 6:45:00 PM

Total : 0

Properties :

DimensionName :

DimensionValue :

Name : Requests

EndTime : 3/20/2015 6:47:56 PM

ResourceId :

/subscriptions/e3f5b07d-3c39-4b0f-bf3b-40fdeba10f2a/resourceGroups/Default-Web-EastUS/providers/microsoft.web/sites/
website3

StartTime : 3/20/2015 5:47:00 PM

TimeGrain : 00:01:00

Unit : Count

This command gets detailed output for the Requests metric.

Example 4: Get summarized output for a specified metric with specified dimension filter

```
$dimFilter = "$(New-AzMetricFilter -Dimension City -Operator eq -Value "Seattle","Toronto") and $(New-AzMetricFilter -Dimension AuthenticationType -Operator eq -Value User)"
```

```
Get-AzMetric -ResourceId <resourceId> -MetricName PageViews -TimeGrain 00:05:00 -MetricFilter $dimFilter -StartTime 2018-02-01T12:00:00Z -EndTime 2018-02-01T12:10:00Z -AggregationType Average
```

ResourceId : [ResourceId]

MetricNamespace : Microsoft.Insights/ApplicationInsights

Metric Name :

LocalizedValue : Page Views

Value : PageViews

Unit : Seconds

Timeseries :

City : Seattle

AuthenticationType : User

Timestamp : 2018-02-01 12:00:00 PM

Average : 3518

Timestamp : 2018-02-01 12:05:00 PM

Average : 1984

City : Toronto

AuthenticationType : User

Timestamp : 2018-02-01 12:00:00 PM

Average : 894

Timestamp : 2018-02-01 12:05:00 PM

Average : 967

This command gets summarized output for the PageViews metric with specified dimension filter and aggregation type.

RELATED LINKS

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

[Get-AzMetricDefinition](#)

[New-AzMetricFilter](#)