Windows PowerShell Get-Help on Cmdlet 'Add-AzMetricAlertRuleV2'

PS:\>Get-HELP Add-AzMetricAlertRuleV2 -Full

NAME

Add-AzMetricAlertRuleV2

SYNOPSIS

Adds or updates a V2 (non-classic) metric-based alert rule.

SYNTAX

Add-AzMetricAlertRuleV2 [-ActionGroup <Microsoft.Azure.Management.Monitor.Management.Models.ActivityLogAlertActionGroup[]>] [-ActionGroupId <System.String[]>]

[-AutoMitigate <System.Boolean>] -Condition <System.Collections.Generic.List`1[Microsoft.Azure.Commands.Insights.OutputClasses.IPSMultiMetricCriteria]>

[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Description <System.String>] [-DisableRule] -Frequency

<System.TimeSpan> -Name <System.String> -ResourceGroupName <System.String> -Severity <System.Int32> -TargetResourceId <System.String> -WindowSize <System.TimeSpan>

[-Confirm] [-WhatIf] [<CommonParameters>]

Add-AzMetricAlertRuleV2 [-ActionGroup

<Microsoft.Azure.Management.Monitor.Management.Models.ActivityLogAlertActionGroup[]>] [-ActionGroupId <System.String[]>]

[-AutoMitigate <System.Boolean>] -Condition <System.Collections.Generic.List`1[Microsoft.Azure.Commands.Insights.OutputClasses.IPSMultiMetricCriteria]>

[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Description <System.String>] [-DisableRule] -Frequency

<System.TimeSpan> -Name <System.String> -ResourceGroupName <System.String> -Severity <System.Int32> [-TargetResourceRegion <System.String>] -TargetResourceScope

<System.String[]> [-TargetResourceType <System.String>] -WindowSize <System.TimeSpan> [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

Adds or updates a V2 (non-classic) metric-based alert rule . The added rule is associated with a resource group and has a name. This cmdlet implements the

ShouldProcess pattern, i.e. it might request confirmation from the user before actually creating, modifying, or removing the resource.

PARAMETERS

-ActionGroup <Microsoft.Azure.Management.Monitor.Management.Models.ActivityLogAlertActionGroup[]>

The Action Group for rule

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-ActionGroupId <System.String[]>

The Action Group id for rule

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AutoMitigate <System.Boolean>

The flag that indicates whether the alert should be auto resolved or not

Required? false

Position? named

Default value True

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-Condition <System.Collections.Generic.List`1[Microsoft.Azure.Commands.Insights.OutputClasses.IPSMultiMetricCriteria]>

The condition for rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

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

-Description <System.String>

The description of the metric alert rule

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DisableRule <System.Management.Automation.SwitchParameter>

The disable rule (status) flag

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Frequency <System.TimeSpan>

The evaluation frequency for rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <System.String>

The name of metric alert rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceGroupName <System.String>

The Resource Group Name

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Severity <System.Int32>

The severity for the metric alert rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TargetResourceId <System.String>

The target resource id for rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TargetResourceRegion <System.String>

The target resource region for rule

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TargetResourceScope <System.String[]>

The target resource scope for rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TargetResourceType <System.String>

The target resource type for rule

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-WindowSize <System.TimeSpan>

The window size for rule

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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

System.TimeSpan

System.String[]

System.Collections.Generic.List`1[[Microsoft.Azure.Commands.Insights.OutputClasses.IPSMultiMetricCriteria, Microsoft.Azure.PowerShell.Cmdlets.Monitor,
Version=1.0.1.0, Culture=neutral, PublicKeyToken=null]]

Microsoft.Azure.Management.Monitor.Models.ActivityLogAlertActionGroup[]

System.Management.Automation.SwitchParameter

System.Int32

OUTPUTS

Microsoft.Azure.Commands.Insights.OutputClasses.PSMetricAlertRuleV2

NOTES

--- Example 1: Add a metric alert rule to a virtual machine ---

$act = [Microsoft.Azure.Management.Monitor.Management.Models.ActivityLogAlertActionGroup]::New("/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/actiongroups/actionGroupDemo")

Add-AzMetricAlertRuleV2 -Name PS3182019 -ResourceGroupName xxxxRG -WindowSize 0:5 -Frequency 0:5

-TargetResourceScope

"/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/012345/providers/Microsoft.Compute/virtualMachines/VM1",

"/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/012345/providers/Microsoft.Compute/virtualMachines/VM2" -TargetResourceType
"Microsoft.Compute/virtualMachines" -TargetResourceRegion "eastus" -Description "This is description" -Severity 4 -ActionGroup $act -Condition $condition

Description : This is description
Severity : 4
Enabled : True
Scopes : {/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/012345/providers/Microsoft.Compute/virtualMachines/VM1,

/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/012345/providers/Microsoft.Compute/virtualMachines/VM2}
EvaluationFrequency : 00:05:00
WindowSize : 00:05:00
TargetResourceType : Microsoft.Compute/virtualMachines
TargetResourceRegion : eastus
Criteria : Microsoft.Azure.Management.Monitor.Models.MetricAlertMultipleResourceMultipleMetricCriteria
AutoMitigate :
Actions : {/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/actiongroups/demo}
LastUpdatedTime :
Id : /subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/xxxxRG/providers/Microsoft.Insights/metricAlerts/PS3182019
Name : PS3182019

Type : Microsoft.Insights/metricAlerts

Location : global

Tags :

This command creates a metric alert rule for a virtual machine. $condition is the output of New-AzMetricAlertRuleV2Criteria

(https://learn.microsoft.com/powershell/module/az.monitor/new-azmetricalertrulev2criteria)cmdlet

Example 2: Add a metric alert rule for all virtual machines in a subscription

$act = [Microsoft.Azure.Management.Monitor.Management.Models.ActivityLogAlertActionGroup]::New("/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/actiongroups/actionGroupDemo")

Add-AzMetricAlertRuleV2 -Name AllVM -ResourceGroupName xxxxRG -WindowSize 0:5 -Frequency 0:5 -TargetResourceScope "/subscriptions/00000000-0000-0000-0000-0000000" -TargetResourceType "Microsoft.Compute/virtualMachines" -TargetResourceRegion "eastus" -Description "This is description" -Severity 4 -ActionGroup $act -Condition $condition

Description : This is description

Severity : 4

Enabled : True

Scopes : {/subscriptions/00000000-0000-0000-0000-0000000}

EvaluationFrequency : 00:05:00

WindowSize : 00:05:00

TargetResourceType : Microsoft.Compute/virtualMachines

TargetResourceRegion : eastus

Criteria : Microsoft.Azure.Management.Monitor.Models.MetricAlertMultipleResourceMultipleMetricCriteria

AutoMitigate :

Actions : {/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/act

iongroups/demo}

LastUpdatedTime :

Id :

/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/xxxxRG/providers/Microsoft.Insights/metricAlerts/AllVM

Name : AllVM

Type : Microsoft.Insights/metricAlerts

Location : global

Tags :

This command creates a metric alert rule for all virtual machines in the subscription that are in eastus

---------- Example 3: Disable a metric alert rule ----------

Get-AzMetricAlertRuleV2 -ResourceGroupName alertstest -Name TestAlertRule | Add-AzMetricAlertRuleV2 -DisableRule

Description : This new Metric alert rule was created from Powershell version: 1.0.1

Severity : 4

Enabled : False

Scopes :

{/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/alertstest/providers/Microsoft.Insights/components/alertstestFunction}

EvaluationFrequency : 00:05:00

WindowSize : 00:05:00

TargetResourceType :

TargetResourceRegion :

Criteria : Microsoft.Azure.Management.Monitor.Models.MetricAlertSingleResourceMultipleMetricCriteria

AutoMitigate :

Actions :

{/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/actiongroups/demo1}

LastUpdatedTime :

Id : /subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/alertstest/providers/Microsoft.Insights/metricAlerts/TestAlertRule

Name : TestAlertRule

Type : Microsoft.Insights/metricAlerts

Location : global

Tags :

This command disables a metric alert rule. Here, we are piping output of Get-AzMetricAlertRuleV2 (https://learn.microsoft.com/powershell/module/az.monitor/get-azmetricalertrulev2) to [Add-AzMetricAlertRuleV2](https://learn.microsoft.com/powershell/module/az.monitor/add-azmetricalertrulev2)

------ Example 4: Add a metric alert rule with dimensions ------

```
$act = [Microsoft.Azure.Management.Monitor.Management.Models.ActivityLogAlertActionGroup]::New("/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/actiongroups/actionGroupDemo")
$dim1 = New-AzMetricAlertRuleV2DimensionSelection -DimensionName "availabilityResult/name" -ValuesToInclude "gdtest"
$dim2 = New-AzMetricAlertRuleV2DimensionSelection -DimensionName "availabilityResult/location" -ValuesToInclude "*"
$criteria = New-AzMetricAlertRuleV2Criteria -MetricName "availabilityResults/availabilityPercentage" -DimensionSelection $dim1,$dim2 -TimeAggregation Average
-Operator GreaterThan -Threshold 2
Add-AzMetricAlertRuleV2 -Name AlertWithDim -ResourceGroupName alertstest -WindowSize 00:05:00 -Frequency 00:05:00 -TargetResourceId "/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/alertstest/providers/Microsoft.Insights/components/alertstestFunction" -Condition $criteria
-ActionGroup $act -DisableRule -Severity 4
```

Description : This new Metric alert rule was created from Powershell version: 1.0.0

Severity : 4

Enabled : False

Scopes :
{/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/alertstest/providers/Microsoft.Insights/components/alertstestFunction}

EvaluationFrequency : 00:05:00

WindowSize : 00:05:00

TargetResourceType :

TargetResourceRegion :

Criteria : Microsoft.Azure.Management.Monitor.Models.MetricAlertSingleResourceMultipleMetricCriteria

AutoMitigate :

Actions :

{/subscriptions/00000000-0000-0000-0000-0000000/resourcegroups/default-activitylogalerts/providers/Microsoft.Insights/actiongroups/actionGroupDemo}

LastUpdatedTime :

Id :
/subscriptions/00000000-0000-0000-0000-0000000/resourceGroups/alertstest/providers/Microsoft.Insights/metricAlerts/AlertWithDim

Name : AlertWithDim

Type : Microsoft.Insights/metricAlerts

Location : global

Tags :

To create a more complex metric alert rule like the ones that involve selecting dimension values or have multiple criteria, you can use the helper cmdlets

New-AzMetricAlertRuleV2DimensionSelection (https://learn.microsoft.com/powershell/module/az.monitor/new-azmetricalertrulev2dimensionselection) and

[New-AzMetricAlertRuleV2Criteria](https://learn.microsoft.com/powershell/module/az.monitor/new-azmetricalertrulev2criteria).

Above set of cmdlets will create a metric alert rule with dimensions.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.monitor/add-azmetricalertrulev2