



## ***Windows PowerShell Get-Help on Cmdlet 'Get-AzDeviceSecurityGroup'***

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

### NAME

Get-AzDeviceSecurityGroup

### SYNOPSIS

Get device security group (IoT Hub security)

### SYNTAX

```

Get-AzDeviceSecurityGroup [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HubResourceId
<System.String>
-Name <System.String> [<CommonParameters>]
```

### DESCRIPTION

The Get-AzDeviceSecurityGroup cmdlet returns a device security group defined in iot security solution

### 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

**-HubResourceId** <System.String>

ID of the security resource that you want to invoke the command on.

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

**-Name** <System.String>

Resource name.

Required?	true
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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

None

## OUTPUTS

Microsoft.Azure.Commands.Security.Models.DeviceSecurityGroups.PSDeviceSecurityGroup

## NOTES

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

Get-AzDeviceSecurityGroup -HubResourceId

"/subscriptions/XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX/resourceGroups/MyResourceGroup/providers/Microsoft.Devices/IotHubs/MyHub" -Name "MySecurityGroup"

Id:

"/subscriptions/XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX/resourceGroups/MyResourceGroup/providers/Microsoft.Devices/IotHubs/MyHub/providers/Microsoft.Security/deviceS

ecurityGroups/MySecurityGroup"

Name: "MySecurityGroup"

Type: "Microsoft.Security/deviceSecurityGroups"

ThresholdRules: []

TimeWindowRules: [

{

RuleType: "ActiveConnectionsNotInAllowedRange"

DisplayName: "Number of active connections is not in allowed range"

Description: "Get an alert when the number of active connections of a device in the time window is not in the

allowed range"

IsEnabled: false

MinThreshold: 0

MaxThreshold: 0

TimeWindowSize: "PT15M"

}

{

RuleType: "AmqpC2DMessagesNotInAllowedRange"

DisplayName: "Number of cloud to device messages (AMQP protocol) is not in allowed range"

Description: "Get an alert when the number of cloud to device messages (AMQP protocol) in the time window is

not in the allowed range"

IsEnabled: false

MinThreshold: 0

MaxThreshold: 0

TimeWindowSize: "PT15M"

}}

AllowlistRules: [

{

RuleType": "ConnectionToIpNotAllowed",

DisplayName: "Outbound connection to an ip that isn't allowed"

Description: "Get an alert when an outbound connection is created between your device and an ip that isn't

allowed"

IsEnabled: false

ValueType: "IpCidr"

AllowlistValues: []

},

{

RuleType: "LocalUserNotAllowed"

DisplayName: "Login by a local user that isn't allowed"

Description: "Get an alert when a local user that isn't allowed logs in to the device"

IsEnabled: false

ValueType: "String"

AllowlistValues: []

```
}]
```

DenylistRules: []

Get device security group "MySecurityGroup" in IoT Hub with resource Id

```
"/subscriptions/XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX/resourceGroups/MyResourceGroup/providers/Microsoft.Devices/IotHubs/MyHub"
```

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

Get-AzDeviceSecurityGroup -HubResourceId

```
"/subscriptions/XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX/resourceGroups/MyResourceGroup/providers/Microsoft.Devices/IotHubs/MyHub"
```

Array of security group items like the item returned in example 1

Get list of device security group in IoT Hub with resource Id

```
"/subscriptions/XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX/resourceGroups/MyResourceGroup/providers/Microsoft.Devices/IotHubs/MyHub"
```

## RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.security/Get-AzDeviceSecurityGroup>