

Alibaba Cloud Cloud Monitor

SDK Reference

Issue: 20190523

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>switch {stand slave}</code>

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1 Java SDK

This topic is a reference for installing and using the Java SDK.

Install SDK

When performing installation through maven, the following dependencies must be added.

```
< dependencies >
  < dependency >
    < groupId > com . aliyun </ groupId >
    < artifactId > aliyun - java - sdk - core </ artifactId >
    < version > 3 . 2 . 6 </ version >
  </ dependency >
  < dependency >
    < groupId > com . aliyun </ groupId >
    < artifactId > aliyun - java - sdk - cms </ artifactId >
    < version > 7 . 0 . 3 </ version >
  </ dependency >
</ dependencies >
```

Download SDK

[Download address](#)

Test code

- Query monitoring data.
- Request example

Make sure that you replace the "accessKey" and "accessSecret" given in the following example with your actual Access Key.

```
import com . aliyuncs . DefaultAcs Client ;
import com . aliyuncs . IAcsClient ;
import com . aliyuncs . exceptions . ClientExce ption ;
import com . aliyuncs . exceptions . ServerExce ption ;
import com . aliyuncs . profile . DefaultPro file ;
import com . google . gson . Gson ;
import java . util . * ;
import com . aliyuncs . cms . model . v20190101 . * ;

public class DescribeMetricListDemo {

    public static void main ( String [] args ) {
        DefaultPro file profile = DefaultPro file .
        getProfile ( " cn - beijing " , "< accessKeyI d >" , "< accessSecr
        et >");
        IAcsClient client = new DefaultAcs Client (
        profile );

        DescribeMetricListRe quest request = new
        DescribeMetricListRe quest ();
```

```

        request . setDimensions ("{" instanceId "< instanceId
_as_example >}");
        request . setEndTime (" 2019 - 05 - 13    11 : 06 : 27 ");
        request . setStartTime (" 2019 - 05 - 13    10 : 20 : 27
");
        request . setPeriod (" 60 ");
        request . setNamespace (" acs_ecs_dashboard ");
        request . setMetricName (" cpu_total ");

        try {
            DescribeMetricListResponse response = client
. getAcscResponse ( request );
            System . out . println ( new Gson (). toJson (
response ));
        } catch ( ServerException e ) {
            e . printStackTrace ();
        } catch ( ClientException e ) {
            System . out . println (" ErrCode :" + e .
getErrCode ());
            System . out . println (" ErrMsg :" + e . getErrMsg
());
            System . out . println (" RequestId :" + e .
getRequestId ());
        }
    }
}

```

- Return example

```

Code : 200
Message : null
RequestId : 727B48BD - 55E3 - 4E5D - BEF4 - 1D092055F7 A4
Datapoints :[
{
    " Maximum ": 100 ,
    " Minimum ": 25 ,
    " instanceId ":" i - bp18abl200 xk9599 ****",
    " Average ": 94 . 62 ,
    " userId ":" 1270676679 54 ****",
    " timestamp ": 1489472460 000
},
{
    " Maximum ": 100 ,
    " Minimum ": 25 ,
    " instanceId ":" i - bp18abl200 xk9599 ****",
    " Average ": 95 . 11 ,
    " userId ":" 1270676679 54 ****",
    " timestamp ": 1489472520 000
},
{
    " Maximum ": 100 ,
    " Minimum ": 25 ,
    " instanceId ":" i - bp18abl200 xk9599 ****",
    " Average ": 95 . 16 ,
    " Userid : 1270676679 54 **** ",
    " timestamp ": 1489472580 000
},
{
    " Maximum ": 100 ,
    " Minimum ": 25 ,
    " instanceId ":" i - bp18abl200 xk9599 ****",
    " Average ": 94 . 69 ,

```

```

        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489472640  000
    },
    {
        "Maximum ": 100 ,
        "Minimum ": 20 ,
        "instanceId ":" i - bp18abl200  xk9599  ****",
        "Average ": 95 . 82 ,
        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489472700  000
    },
    {
        "Maximum ": 100 ,
        "Minimum ": 25 ,
        "instanceId ":" i - bp18abl200  xk9599  ****",
        "Average ": 94 . 77 ,
        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489472760  000
    },
    {
        "Maximum ": 100 ,
        "Minimum ": 33 . 33 ,
        "instanceId ":" i - bp18abl200  xk9599  ****",
        "Average ": 95 . 18 ,
        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489472820  000
    },
    {
        "Maximum ": 100 ,
        "Minimum ": 25 ,
        "instanceId ":" i - bp18abl200  xk9599  ****",
        "Average ": 95 . 11 ,
        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489472880  000
    },
    {
        "Maximum ": 100 ,
        "Minimum ": 20 ,
        "instanceId ":" i - bp18abl200  xk9599  ****",
        "Average ": 94 . 5 ,
        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489472940  000
    },
    {
        "Maximum ": 100 ,
        "Minimum ": 20 ,
        "instanceId ":" i - bp18abl200  xk9599  ****",
        "Average ": 94 . 99 ,
        "userId ":" 1270676679  54  ****",
        "timestamp ": 1489473000  000
    }
]
}

```

- Create an alarm rule.
- Request example

```

import com . aliyuncs . DefaultAcs Client ;
import com . aliyuncs . IAcsClient ;
import com . aliyuncs . exceptions . ClientExce ption ;
import com . aliyuncs . exceptions . ServerExce ption ;
import com . aliyuncs . profile . DefaultPro file ;

```

```

import com . google . gson . Gson ;
import java . util . * ;
import com . aliyuncs . cms . model . v20190101 . * ;

public class CmsDemo {

    public static void main ( String [] args ) {
        DefaultPro file profile = DefaultPro file
        . getProfile ( " cn - hangzhou " , "< accessKeyI d >" , "<
        accessSecr et >");
        IAcsClient client = new DefaultAcs Client (
        profile );

        PutResourc eMetricRul eRequest request = new
        PutResourc eMetricRul eRequest ();
        request . setNamespa ce ( " acs_ecs_da shboard " );
        request . setRuleId ( " aabbccdd x001 " );
        request . setInterva l ( " 60 " );
        request . setPeriod ( " 60 " );
        request . setRuleNam e ( " aaabbbcc " );
        request . setContact Groups ( " alarm contact group
        " );
        request . setResourc es ( "[ { \" instanceId \" : \" i - 8vb6p16
        ***** \" } ] " );
        request . setMetricN ame ( " cpu_total " );

        List < PutResourc eMetricRul eRequest . Escalation
        s > escalation sList = new ArrayList < PutResourc
        eMetricRul eRequest . Escalation s > ();

        PutResourc eMetricRul eRequest . Escalation s
        escalation s1 = new PutResourc eMetricRul eRequest .
        Escalation s ();
        escalation s1 . setStatist ics ( " Average " );
        escalation s1 . setCompari sonOperato r ( " GreaterTha
        nOrEqualTo Threshold " );
        escalation s1 . setThresho ld ( " 90 " );
        escalation s1 . setTimes ( 2 );
        escalation sList . add ( escalation s1 );
        request . setEscalat ionss ( escalation sList );

        try {
            PutResourc eMetricRul eResponse response =
            client . getAcsResp onse ( request );
            System . out . println ( new Gson (). toJson (
            response ));
        } catch ( ServerExce ption e ) {
            e . printStack Trace ();
        } catch ( ClientExce ption e ) {
            System . out . println ( " ErrCode : " + e .
            getErrCode ());
            System . out . println ( " ErrMsg : " + e . getErrMsg
            ());
            System . out . println ( " RequestId : " + e .
            getRequest Id ());
        }
    }
}

```

- Return example

```
{
```

```
49  " Message ": "",
    " RequestId ": " 7aa25dfa - 3bb9 - 4ed3 - 9704 - a2d41bf676
    ",
    " Success ": true ,
    " Code ": 200
}
```

2 Python SDK User Manual

This topic is a reference for installing and using the Python SDK.

Install pip

- You have installed Python v2.7.
- You have installed pip or an alternative package management system. For more information on pip, see [How to install pip](#).

Install cms-python-sdk dependencies

```
pip install aliyun-python-sdk-core
pip install aliyun-python-sdk-cms
```

[Latest version of Python SDK](#)

Code example

```
#!/usr/bin/env python
# coding = utf - 8

from aliyunsdkcore.client import AcsClient
from aliyunsdkcore.acs_exception.exceptions import ClientException
from aliyunsdkcore.acs_exception.exceptions import ServerException
from aliyunsdkcms.request.v20190101.DescribeMetricListRequest import DescribeMetricListRequest

client = AcsClient('<accessKeyId>', '<accessSecret>', 'cn-beijing')

request = DescribeMetricListRequest()
request.set_accept_format('json')

request.set_StartTime("2019-05-21 10:00:00")
request.set_Dimensions("{\"instanceId\":\"i-2ze3*****\"}")
request.set_Period("60")
request.set_Namespace("acs_ecs_dashboard")
request.set_MetricName("CPUUtilization")

response = client.do_action_with_exception(request)
# python2: print(response)
print(str(response, encoding='utf-8'))
```

3 PHP SDK

This topic is a reference for installing and using the PHP SDK.

Download SDK

Download addresses:

- <https://github.com/aliyun/aliyun-openapi-php-sdk/tree/master/aliyun-php-sdk-cms/>
- <https://github.com/aliyun/aliyun-openapi-php-sdk/tree/master/aliyun-php-sdk-core>

Test code

```
<? php
use AlibabaCloud \ Client \ AlibabaCloud ;
use AlibabaCloud \ Client \ Exception \ ClientException ;
use AlibabaCloud \ Client \ Exception \ ServerException ;

// Download : https://github.com/aliyun/openapi-sdk-php
// Usage : https://github.com/aliyun/openapi-sdk-php/blob/master/README.md

AlibabaCloud::accessKeyClient('<accessKeyId>', '<accessSecret>')
    -> regionId('cn-beijing')
    -> asDefaultClient();

try {
    $result = AlibabaCloud::rpc()
        -> product('Cms')
        // -> scheme('https') // https | http
        -> version('2019-01-01')
        -> action('DescribeMetricList')
        -> method('POST')
        -> options([
            'query' => [
                'RegionId' => 'cn-beijing',
                'MetricName' => 'cpu_idle',
                'Namespace' => 'acs_ecs_dashboard',
                'Period' => '60',
                'StartTime' => '2019-05-13 10:20:27',
                'EndTime' => '2019-05-13 11:06:27',
                'Dimensions' => "{$instanceId}:<instanceId>_as_example",
            ],
        ])
        -> request();
    print_r($result->toArray());
} catch (ClientException $e) {
    echo $e->getErrorMessage() . PHP_EOL;
} catch (ServerException $e) {
    echo $e->getErrorMessage() . PHP_EOL;
```

```
}
```