

# Alibaba Cloud Cloud Monitor

SDK マニュアル

Document Version20190819

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# 1 Java SDK

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## SDK のインストール

Maven を介してインストールを実行する場合、以下の依存関係を追加する必要があります。

```
< dependencies >
  < dependency >
    < groupId > com . aliyun </ groupId >
    < artifactId > aliyun - java - sdk - core </ artifactId >
    < version > 5 . 1 . 6 </ version >
  </ dependency >
  < dependency >
    < groupId > com . aliyun </ groupId >
    < artifactId > aliyun - java - sdk - cs </ artifactId >
    < version > 0 . 1 . 2 </ version >
  </ dependency >
</ dependencies >
```

## SDK のダウンロード

[ダウンロードアドレス](#)

## テストコード

- ・ モニタリングデータの照会
  - リクエスト例

次の例に示された "accessKey" および "accessSecret" を、ご自身の Access Key に置き換えてください。

```
package com . aliyuncs . cms . test ;
import com . alibaba . fastjson . JSONObject ;
import com . aliyuncs . DefaultAcsClient ;
import com . aliyuncs . IAcsClient ;
import com . aliyuncs . sts . model . v20150401 . QueryMetricListRequest ;
import com . aliyuncs . sts . model . v20150401 . QueryMetricListResponse ;
import com . aliyuncs . exceptions . ClientException ;
import com . aliyuncs . exceptions . ServerException ;
import com . aliyuncs . http . MethodType ;
import com . aliyuncs . profile . DefaultProfile ;
import com . aliyuncs . profile . IClientProfile ;
public class QueryMetricListDemo {
    public static void main ( String [] args ) {
        QueryMetricListRequest request = new QueryMetricListRequest () ;
        request . setProject ( " acs_ecs_dashboard " ) ;
        request . setMetric ( " cpu_idle " ) ;
        request . setPeriod ( " 60 " ) ;
        request . setStartTime ( " 2016 - 05 - 15 08 : 00 : 00 " ) ;
    } ;
    request . setEndTime ( " 2015 - 05 - 15 09 : 00 : 00 " ) ;
    JSONObject dim = new JSONObject () ;
```

```

        dim . put (" instanceId ", "< your_insta nceId >");
        request . setDimensi ons ( dim . toJSONStri ng ());
        request . AcceptForm at = FormatType . JSON ;
        IClientPro file profile = DefaultPro file .
getProfile (" cn - hangzhou ",
            "< your_acces s_key_id >", "< your_acces
s_key_secr et >");
        IAcsClient client = new DefaultAcs Client (
profile );
        try {
getAcResp onse ( request );
            GetStatusR esponse response = client .
                System . out . println ( response . getCode ());
                System . out . println ( response . getMessage ());
                System . out . println ( response . getRequest Id
());
            System . out . println ( response . getData ());
        } catch ( ServerExce ption e ) {
e . printStack Trace ();
            e . printStack Trace ();
        } catch ( ClientExce ption e ) {
            e . printStack Trace ();
        }
    }
}

```

#### - リターン例

```

Code : 200
Message : null
RequestId : 727B48BD - 55E3 - 4E5D - BEF4 - 1D092055F7 A4
Datapoints : [
    {
        " Maximum ": 100 ,
        " Minimum ": 25 ,
        " instanceId ":" i - bp18abl200 xk9599ck7c ",
        " Average ": 94 . 62 ,
        " userId ":" 1270676679 546704 ",
        " timestamp ": 1489472460 000
    },
    {
        " Maximum ": 100 ,
        " Minimum ": 25 ,
        " instanceId ":" i - bp18abl200 xk9599ck7c ",
        " Average ": 95 . 11 ,
        " userId ":" 1270676679 546704 ",
        " timestamp ": 1489472520 000
    },
    {
        " Maximum ": 100 ,
        " Minimum ": 25 ,
        " instanceId ":" i - bp18abl200 xk9599ck7c ",
        " Average ": 95 . 16 ,
        " Userid : 1270676679 546704 ",
        " timestamp ": 1489472580 000
    },
    {
        " Maximum ": 100 ,
        " Minimum ": 25 ,
        " instanceId ":" i - bp18abl200 xk9599ck7c ",
        " Average ": 94 . 69 ,
        " userId ":" 1270676679 546704 ",
        " timestamp ": 1489472640 000
    }
]

```

```

    },
    {
      " Maximum ": 100 ,
      " Minimum ": 20 ,
      " instanceId ":" i - bp18abl200  xk9599ck7c ",
      " Average ": 95 . 82 ,
      " userId ":" 1270676679  546704 ",
      " timestamp ": 1489472700  000
    },
    {
      " Maximum ": 100 ,
      " Minimum ": 25 ,
      " instanceId ":" i - bp18abl200  xk9599ck7c ",
      " Average ": 94 . 77 ,
      " userId ":" 1270676679  546704 ",
      " timestamp ": 1489472760  000
    },
    {
      " Maximum ": 100 ,
      " Minimum ": 33 . 33 ,
      " instanceId ":" i - bp18abl200  xk9599ck7c ",
      " Average ": 95 . 18 ,
      " userId ":" 1270676679  546704 ",
      " timestamp ": 1489472820  000
    },
    {
      " Maximum ": 100 ,
      " Minimum ": 25 ,
      " instanceId ":" i - bp18abl200  xk9599ck7c ",
      " Average ": 95 . 11 ,
      " userId ":" 1270676679  546704 ",
      " timestamp ": 1489472880  000
    },
    {
      " Maximum ": 100 ,
      " Minimum ": 20 ,
      " instanceId ":" i - bp18abl200  xk9599ck7c ",
      " Average ": 94 . 5 ,
      " userId ":" 1270676679  546704 ",
      " timestamp ": 1489472940  000
    },
    {
      " Maximum ": 100 ,
      " Minimum ": 20 ,
      " instanceId ":" i - bp18abl200  xk9599ck7c ",
      " Average ": 94 . 99 ,
      " userId ":" 1270676679  546704 ",
      " timestamp ": 1489473000  000
    }
  ]
}

```

- ・ アラームルールの作成

- リクエスト例

```

package com . aliyuncs . cms . test ;
import com . alibaba . fastjson . JSONArray ;
import com . alibaba . fastjson . JSONObject ;
import com . aliyuncs . DefaultAcs Client ;
import com . aliyuncs . IAcsClient ;
import com . aliyuncs . sts . model . v20150401 . CreateAlar
mRequest ;

```

```

import com . aliyuncs . sts . model . v20150401 . CreateAlar
mResponse ;
import com . aliyuncs . exceptions . ClientExce ption ;
import com . aliyuncs . exceptions . ServerExce ption ;
import com . aliyuncs . http . MethodType ;
import com . aliyuncs . profile . DefaultPro file ;
import com . aliyuncs . profile . IClientPro file ;
public class CreateAlar mDemo {
    public static void main ( String [] args ) {
        CreateTabl eRequest request = new CreateTabl
eRequest ();
        request . setName ( " create_ala rm_test " );
        request . setNamespa ce ( " acs_ecs_da shboard " );
        request . setMetricN ame ( " vm . MemoryUtil ization " );
        JSONArray dimensions = new JSONArray ();
        JSONObject dim = new JSONObject ();
        dim . put ( " userId ", "< your_userI d >" );
        dim . put ( " instanceId ", "< your_insta nceId >" );
        dimensions . add ( dim );
        request . setDimensi ons ( dimensions . toJSONStri ng
());
        request . setPeriod ( " 60 " );
        request . setStatist ics ( " Average " );
        request . setCompari sonOperato r ( ">=" );
        request . setThresho ld ( " 35 " );
        request . setEvaluat ionCount ( 2 );
        JSONArray contactGro ups = new JSONArray ();
        contactGro ups . add ( "< your_group 1 >" );
        contactGro ups . add ( "< your_group 2 >" );
        request . setContact Groups ( contactGro ups .
toJSONStri ng ());
        request . setStartTi me ( 6 );
        request . setEndTime ( 20 );
        request . setNotifyT ype ( 1 );
        request . AcceptForm at = FormatType . JSON ;
        IClientPro file profile = DefaultPro file .
getProfile ( " cn - hangzhou ",
            "< your_acces s_key_id >", "< your_acces
s_key_secr et >" );
        IAcsClient client = new DefaultAcs Client (
profile );
        try {
            CreateUser Response response = client .
GetAcsResp onse ( request );
            System . out . println ( response . getCode ());
            System . out . println ( response . getMessage ());
            System . out . println ( response . getRequest Id
());
            System . out . println ( response . getData ());
        } catch ( ServerExce ption e ) {
            e . printStack Trace ();
        } catch ( ClientExce ption e ) {
            e . printStack Trace ();
        }
    }
}

```

#### - リターン例

```

Code : 200
Message : null
RequestId : B8E6E26A - 9435 - 4D52 - 8796 - 68793935CA 74

```

Data : 81b412bf - fbbb - 4a40 - 8d74 - b68ec849a0 91

## 2 Python SDK

---

Python 2.7 がインストールされている必要があります。

### pip のインストール

既に、pip または代替方法をお持ちの場合、この手順はスキップします。

#### pip のインストール方法

CLI を使用します。インストール済の場合、この手順はスキップします。

```
pip install aliyuncli
pip install -Iv aliyun - python - sdk - cms == 5 . 0 . 0
aliyuncli configure
```

CLI のインストール方法の詳細は、「」 [「CLIのインストール方法」](#) 「」をご参照ください。

### cms-python-sdk をインストールするための依存関係

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

### Python SDK の最新バージョン

#### サンプルコード

```
from aliyunsdkc ore import client
from aliyunsdkc ms . request . v20190101 import QueryMetri
cListReque st
import time
clt = client . AcscClient (' your_acces s_key ', ' your_acces
s_secret ', ' your_regio n_id ')
request = QueryMetri cListReque st . QueryMetri cListReque st
()
request . set_accept _format (' json ')
request . set_Projec t (' acs_ecs_da shboard ')
request . set_Metric (' CPUUtiliza tion ')
start_time = " 2016 - 10 - 25 10 : 00 : 00 "
timestamp_ start = int ( time . mktime ( time ..strptime (
start_time , "% Y -% m -% d % H :% M :% S "))) * 1000
request . set_StartT ime ( timestamp_ start )
request . set_Dimens ions ("{' instanceId ':' i - 94g5h ****'}")
request . set_Period (' 60 ')
result = clt . do_action_ with_excep tion ( request )
print result
```



## 3 Node.js SDK

---

Node.js と npm をインストール

サンプルコード

```
var metrics = require (" aliyun - metrics ")
var client = new metrics ({
  accessKeyId : " your_access_key_id ",
  accessKeySecret : " your_access_key_secret "
})
client . queryData ({
  project : " acs_rds ",
  metric : " CpuUsage ",
  period : 300 ,
  startTime : " 2016 - 03 - 08T07 : 20 : 00Z ",
  endTime : " 2016 - 03 - 08T09 : 20 : 00Z ",
  dimensions : "{ instanceId : ' your_instanceId '}"
}, function ( error , data ){
  if ( error )
    console . log ( error )
  else if ( ! data )
    console . log ( " data is null " )
  else
    console . log ( data )
});
```

## 4 PHP SDK

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### SDK のダウンロード

ダウンロードアドレス

- <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>

### テストコード

```
<? php
date_default_timezone_set (" Asia / Shanghai ");
include_once '< your_path >/ aliyun - openapi - php - sdk / aliyun
- php - sdk - core / Config . php ' ;
$ responses = array ();
use Cms \ Request \ V20170301 \ QueryMetricListRequest ;
$client = new DefaultProfile ( DefaultProfile:: getInstance (
    "< your_region >",
    "< your_access_key_id >",
    "< your_access_key_secret >"
));
$client = new DefaultAcsClient ($ client);
function do_request ($ client )
{
    global $ responses ;
    $ request = new QueryMetricListRequest ();
    $ request -> setProject (" acs_ecs_dashboard ");
    $ request -> setDimensions ("{' instanceId ': '< instanceId
    _as_example >'}");
    $ request -> setStartTime (" 2016 - 05 - 15 08 : 00 : 00 ");
    $ request -> setMetric (" cpu_idle ");
    $ request -> setEndTime (" 2015 - 05 - 15 09 : 00 : 00 ");
    $ request -> setPeriod (" 60 ");
    // Initiate a request and obtain the response
    $ client -> __urlTestFlag__ = false ;
    try {
        $ response = $ client -> doAction ($ request );
        $ body = json_decode ($ response -> getBody ());
        print " REQUEST ". $ response -> getStatus () . " body :
        " . $ body ->{' Code '}. "\ n ";
        print_r ($ body ->{' Datapoints '});
    } catch ( ClientException $ e ) {
        print " REQUEST N . A . Error : " . $ e -> getErrorCo de
        () . " Message : " . $ e -> getMessage () . "\ n ";
    }
}
array_push ($ responses , do_request ($ client));
? >
```