

开发指南

SDK参考

SDK参考

JavaSDK使用手册

SDK安装

通过maven进行安装，需要添加的依赖如下：

```
<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>5.0.4</version>
</dependency>

</dependencies>
```

SDK下载

- Github下载地址：<https://github.com/aliyun/aliyun-openapi-java-sdk/tree/master/aliyun-java-sdk-cms>

测试代码

查询监控数据

- 请求示例

使用时请将如下示例中的accessKey和accessSecret替换成您的Access Key

```
package com.aliuncs.cms.test;
```

```
import com.alibaba.fastjson.JSONObject;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.cms.model.v20170301.QueryMetricListRequest;
import com.aliyuncs.cms.model.v20170301.QueryMetricListResponse;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.exceptions.ServerException;
import com.aliyuncs.http.FormatType;
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("2017-03-14 14:20:27");
        request.setEndTime("2017-03-14 14:30:27");

        JSONObject dim = new JSONObject();
        dim.put("instanceId", "<your_instanceId>");
        request.setDimensions(dim.toJSONString());
        request.setAcceptFormat(FormatType.JSON);

        IClientProfile profile = DefaultProfile.getProfile("cn-hangzhou",
            "<your_access_key_id>", "<your_access_key_secret>");
        IAcsClient client = new DefaultAcsClient(profile);

        try {
            QueryMetricListResponse response = client.getAcsResponse(request);
            System.out.println(response.getCode());
            System.out.println(response.getMessage());
            System.out.println(response.getRequestId());
            System.out.println(response.getDataPoints());
        } catch (ServerException e) {
            e.printStackTrace();
        } catch (ClientException e) {
            e.printStackTrace();
        }
    }
}
```

- 返回示例

```
Code:200
Message:null
RequestId:727B48BD-55E3-4E5D-BEF4-1D092055F7A4
Datapoints:[
{
  "Maximum":100,
```

```
"Minimum":25,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":94.62,
"userId":"1270676679546704",
"timestamp":1489472460000
},
{
"Maximum":100,
"Minimum":25,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":95.11,
"userId":"1270676679546704",
"timestamp":1489472520000
},
{
"Maximum":100,
"Minimum":25,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":95.16,
"userId":"1270676679546704",
"timestamp":1489472580000
},
{
"Maximum":100,
"Minimum":25,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":94.69,
"userId":"1270676679546704",
"timestamp":1489472640000
},
{
"Maximum":100,
"Minimum":20,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":95.82,
"userId":"1270676679546704",
"timestamp":1489472700000
},
{
"Maximum":100,
"Minimum":25,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":94.77,
"userId":"1270676679546704",
"timestamp":1489472760000
},
{
"Maximum":100,
"Minimum":33.33,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":95.18,
"userId":"1270676679546704",
"timestamp":1489472820000
},
{
"Maximum":100,
```

```
"Minimum":25,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":95.11,
"userId":"1270676679546704",
"timestamp":1489472880000
},
{
"Maximum":100,
"Minimum":20,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":94.5,
"userId":"1270676679546704",
"timestamp":1489472940000
},
{
"Maximum":100,
"Minimum":20,
"instanceId":"i-bp18abl200xk9599ck7c",
"Average":94.99,
"userId":"1270676679546704",
"timestamp":1489473000000
}
]
}
```

创建报警规则

- 请求示例

```
package com.aliyuncs.cms.test;

import com.alibaba.fastjson.JSONArray;
import com.alibaba.fastjson.JSONObject;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.cms.model.v20170301.CreateAlarmRequest;
import com.aliyuncs.cms.model.v20170301.CreateAlarmResponse;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.exceptions.ServerException;
import com.aliyuncs.http.FormatType;
import com.aliyuncs.profile.DefaultProfile;
import com.aliyuncs.profile.IClientProfile;

public class CreateAlarmDemo {

    public static void main(String[] args) {

        CreateAlarmRequest request = new CreateAlarmRequest();
        request.setName("create_alarm_test");
        request.setNamespace("acs_ecs_dashboard");
        request.setMetricName("vm.MemoryUtilization");

        JSONArray dimensions = new JSONArray();
```

```
JSONObject dim = new JSONObject();
dim.put("userId", "<your_userId>");
dim.put("instanceId", "<your_instanceId>");
dimensions.add(dim);
request.setDimensions(dimensions.toJSONString());

request.setPeriod(900);
request.setStatistics("Average");
request.setComparisonOperator(">=");
request.setThreshold("35");
request.setEvaluationCount(2);

JSONArray contactGroups = new JSONArray();
contactGroups.add("<your_group1>");
contactGroups.add("<your_group2>");
request.setContactGroups(contactGroups.toJSONString());

request.setStartTime(6);
request.setEndTime(20);
request.setNotifyType(1);
request.setAcceptFormat(FormatType.JSON);

IClientProfile profile = DefaultProfile.getProfile("cn-hangzhou",
"<your_access_key_id>", "<your_access_key_secret>");
IAcsClient client = new DefaultAcsClient(profile);

try {
    CreateAlarmResponse response = client.getAcsResponse(request);
    System.out.println(response.getCode());
    System.out.println(response.getMessage());
    System.out.println(response.getRequestId());
    System.out.println(response.getData());
} catch (ServerException e) {
    e.printStackTrace();
} catch (ClientException e) {
    e.printStackTrace();
}

}
```

- 返回示例

```
Code:200
Message:null
RequestId:B8E6E26A-9435-4D52-8796-68793935CA74
Data:81b412bf-fbbb-4a40-8d74-b68ec849a091
```

PythonSDK使用手册

SDK使用手册

前置条件：

需要安装有python2.7版本

安装pip

如果已有pip或者使用其他方案，可忽略此步骤。

如何安装pip

命令行工具 CLI，如果已安装，请略过：

```
pip install aliyuncli
pip install -Iv aliyun-python-sdk-cms==5.0.0
aliyuncli configure
```

命令行工具 CLI 安装说明

安装cms-python-sdk的依赖：

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

code示例：

```
from aliyun sdkcore import client
from aliyun sdkcms.request.v20170301 import QueryMetricListRequest
import time
clt = client.AcsClient('your_access_key','your_access_secret','your_region_id')
request = QueryMetricListRequest.QueryMetricListRequest()
request.set_accept_format('json')
request.set_Project('acs_ecs_dashboard')
request.set_Metric('CPUUtilization')
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_StartTime(timestamp_start)
request.set_Dimensions("{\"instanceId\":\"i-94g5hc378\"}")
request.set_Period('60')
result = clt.do_action_with_exception(request)
print result
```

Node.js SDK使用手册

前置条件

安装nodejs 和 npm

SampleCode

```
var Metrics = require("aliyun-metrics")

var client=new Metrics({
  accessKeyId: "your_accesskey_id",
  accesskeySecret: "your_accesskey_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)
});
```

PHP SDK使用手册

SDK使用手册

SDK下载

Github下载地址：

- <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>

测试代码

```
<?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;

$iClientProfile0 = DefaultProfile::getProfile(
    "<your_regionId>",
    "<your_accesskey_id>",
    "<your_accesskey_secret>"
);
$client0 = new DefaultAcsClient($iClientProfile0);

function do_request0($client)
{
    global $responses;
    $request = new QueryMetricListRequest();
    $request->setProject("acs_ecs_dashboard");
    $request->setDimensions("{\"instanceId\": '<instanceId_as_example>'");
    $request->setStartTime("2017-03-14 14:20:27");
    $request->setMetric("cpu_idle");
    $request->setEndTime("2017-03-15 11:20:27");
    $request->setPeriod("60");

    // 发起请求，并得到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->getErrorCode() . " Message: " . $e->getMessage() . "\n";
    }

}

array_push($responses, do_request0($client0));
?>
```