

Message Service

Developer Tools

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Enables you to query message operation logs by queue/topic name, MessageID, and start and end time.

Download and installation

Version 1.0.0

- Updated on: 2016-03-15 [Download](#)
- Functions updated
 - Operation logs of a specified message can be queried by queue/topic, MessageID, and start and end time.

Installation

- Download and decompress the toolkit.
- Go to the `mns_logging` directory, and run any of the following command to install the tool.

```
Linux: sudo python setup.py install
Windows: python.exe setup.py install
```

- For more help information, refer to the `mns_logging/README` document.

Help

Configuration

Configure domain names of MNS and OSS, the access account, and the AccessKey/Secret pair. "Hangzhou" is used as an example in this document.

```
mnslogging_cmd config --ossendpoint=http://oss-cn-hangzhou.aliyuncs.com --
endpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com --accesskeyid=$your_accesskey --
accesskeysecret=$your_accesskeysecret
```

- `$accountid` indicates the account ID which can be viewed on Alibaba official website.
- `$your_accesskey/$your_accesskeysecret` indicates the account's key pair which can be viewed on Alibaba official website.

Query queue logs

Operation logs of a specified message can be queried by the queue name, MessageID, and start and end time.

```
mnslogging_cmd queryqueueelog --queueName=$queueName --msgId=$msgId --startTime=$startTime --
endTime=$endTime
```

- \$queueName indicates the name of the specified queue.
- \$msgId indicates the ID of the message to be queried.
- \$startTime/\$endTime indicates the time scope of the logs to be queried.

For example:

```
$ mnslogging_cmd queryqueueelog --queueName=TestQueue --msgId="70c608097158a600-1-15328988899-20000001A" --startTime=20160229_130000 --endTime=20160229_140000
===== logs =====
Time      Action      RemoteAddress  NextVisibleTime  ReceiptHandleInRequest  ReceiptHandleInResponse
2016-02-29 13:55:43.130185  BatchSendMessage  10.101.101.37  2016-02-29 13:55:43  -
2016-02-29 13:55:43.134287  BatchPeekMessage  10.101.101.37  -
2016-02-29 13:55:43.141349  BatchReceiveMessage  10.101.101.37  2016-02-29 13:56:13  1-ODU40TKzNDYxOCBxNDU2NzI1MzczLTETOA==
2016-02-29 13:55:43.151590  BatchDeleteMessage  10.101.101.37  -
```

Query topic logs

Operation logs of a specified message can be queried by the topic name, MessageID, and start and end time.

```
mnslogging_cmd querytopiclog --topicName=$topicName --msgId=$msgId --startTime=$startTime --
endTime=$endTime
```

- \$topicName indicates the name of the specified topic.
- \$msgId indicates the ID of the message to be queried.
- \$startTime/\$endTime indicates the time scope of the logs to be queried.

For example:

```
$ mnslogging_cmd querytopiclog --topicName=TestTopic --msgId="f69112608C113ACF-1-1532899AD0E-200000086" --startTime=20160229_130000 --endTime=20160229_140000
===== logs =====
Time      Action      RemoteAddress  NotifyStatus  SubscriptionName
2016-02-29 13:56:44.943616  PublishMessage  10.101.101.37  -
2016-02-29 13:56:44.955661  Notify  -  201  TestSub1
2016-02-29 13:56:44.960658  Notify  -  201  TestSub2
```

HttpEndpoint local debug tool

This tool simulates Message Service to push http/https message(request) to a given http url to help test and debug the HttpEndpoint.

Environment Dependency

This tool requires Python version higher than 2.5 (include) and lower than 3.0(exclusive) , can be used both in Windows and Linux.

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2. Test the HttpEndpoint parser for push message body

Send http/https request to a given HttpEndpoint address with message body and the format information.

Note: do not do the authentication in HttpEndpoint, for the request sent by this tool will not add the signature for authentication in this mode.

Command format

```
python mns_topic_tool.py notifymsg_withoutauth --host=http(s)://xxx [--uri=xxx] [--body=xxx] [--base64=true/false] [--format=xml/simplified] [--topicowner=xxx] [--topicname=xxx] [--subscriber=xxx] [--subname=xxx] [--pubtime=xxx]
```

Parameter	Description	Default Value
uri	request uri	/notifications
body	content of message	TestMessage
base64	indicate if encoding in base64	false
format	format of body : xml/simplified	xml
topicowner	the TopicOwner in message body	TestTopicOwner
topicname	the TopicName in message body	TestTopicName
subscriber	the Subscriber in message body	TestSubscriber
subname	the Subscription Name in message body	TestSubscriptionName
pubtime	the publish message time in message body	current time

Sample:

```
$python mns_topic_tool.py notifysg_withoutauth --host=http://10.101.161.37:8090 --uri=/register
--body="{\"id\":1,\"name\":\"Jim\"}" --format=simplified
=====Send Request=====
POST /register
Content-Length: 21
User-Agent: Aliyun Notification Service Agent
Host: 10.101.161.37:8090
x-mns-version: 2015-06-06
Date: Fri, 25 Nov 2016 07:27:15 GMT
Content-md5: 2GY1MGNhNDFkNDFhYTgyYWJlNjRmNmE5MmVjMzMwZWw=
Content-Type: text/xml;charset=utf-8
x-mns-request-id: 566FD963B2B71C44481F701A
Data: {"id":1,"name":"Jim"}

=====Get Response=====
Status: 201
Header: date: Fri, 25 Nov 2016 07:27:15 GMT
content-length: 0
content-type: text/html
server: SimpleHttpNotifyEndpoint/1.0.3 Python/2.5.4
Data:
```

Download Signature Generating Tool and unzip to local disk.

Open the file signature-demo.html in browser(suggest to use Chrome) ;

Input the AccessKey, AccessKeySecrete and the Required headers, the tool will caculate the signature and output in the web browser.

AccessKeyId: AccessKeySecrete:

Head Signature

Signature = base64(bmac-sha1(VERB + "\n"
+ CONTENT-MD5 + "\n"
+ CONTENT-TYPE + "\n"
+ DATE + "\n"
+ CanonicalizedOSSHeaders
+ CanonicalizedResource))

VERB:	GET	Required
Content-MD5:		Optional
Content-Type:		Optional
Date:	Now	Required, e.g: Fri, 13 Mar 2015 13:58:47 GMT
CanonicalizedMNSHeaders:	: +	Optional, Meta key must start With 'x-mns-'
CanonicalizedMNSResource:		Required, e.g: /\${queueName}/\${Resource}?\${query string}

To Sign String:
-----LINE-----
Signature:

Note: This tool is provided by a third party in a technology forum.