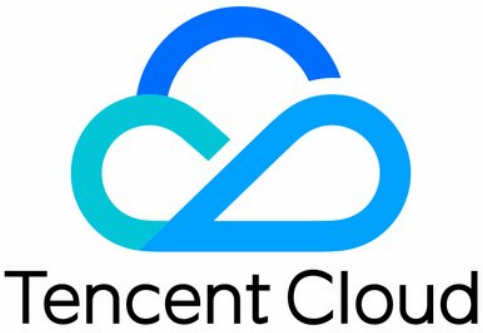
Custom Cloud Monitor

API Documents

Product Documentation



Contents

API Documents

Intro

Last updated : 2020-06-05 21:41:57

> ⚠ **Note :**
>
> This is a legacy API which has been hidden and will no longer be updated.

Welcome to Tencent Custom Cloud Monitor (CCM) service.
CCM allows you to monitor and configure alarm rules against the resource utilization and application data to provide precise and real-time health status information on your business.
Users can use the APIs described in this document to work with CCM, including Create Namespace, Create Metric, etc. For more information, please see API overview.
Before using these APIs, please make sure that you have a thorough understanding of CCM's Product Overview and Quick Start.

The following are some commonly used terms in CCM:

1. Glossary

Term	Full Name	Full Name	Description
Namespace	Namespace	Namespace	Namespace is a container of metrics. Metrics in different namespaces are independent from each other. The name of namespace can be customized. For example, the value of namespace is proc_monitor, which is process monitoring
Metric	Metric	Metric	Metric is the variable to be monitored. For example, process CPU utilization is proc_cpu_usage, and process memory usage is proc_mem_usage

Term	Full Name	Full Name	Description
Dimension	Dimension	Dimension	Dimension is the name/value pair structure for identifying a monitoring object. It is used to describe the characteristics of the monitoring object. For example, when monitoring CPU utilization of a process, you can define the dimension name as machine ip, the process name as proc_name, to distinguish different processes on different machines
MetricAggregation	MetricAggregation	Metric aggregation	Choose and aggregate some of the dimensions under the metric to analyze the data of aggregated dimensions. For example, the metric proc_cpu_usage have two dimensions: ip and proc_name. Use machine ip dimension for aggregation to analyze the CPU utilization of multiple processes under the specified machine ip.
StatisticsType	statistics Type	Statistical type	Statistical type is the method for calculating data, which consists of statistical period and statistical method. It means that the original data is analyzed using the statistical method within statistical period. For example, to calculate the average value of the original data within 5 minutes.
statisticsType period	statisticsType period	Statistical period	Period within which the data is calculated. Currently, the supported period is 5 minutes

Term	Full Name	Full Name	Description
statisticsType statistics	statisticsType statistics	Statistical method	It is used to analyze the data set within a specified statistical period. Available analytical methods are: max (to take the maximum value in the data set), min (to take the minimum value in the data set), sum (to take the sum of all data in the data set), avg (to take the average value of all data in the data set), last (to take the last value in the data set)

2.API Quick Start

To use CCM APIs, you need to complete at least the following four steps:

1. Create Namespace
   You can use the API Create Namespace to create a namespace.
2. Create Metric
   After the namespace is created, you can use the API Create Metric to create a metric in the namespace. When you create dimensions under the metric, choose whether to add statistical types to all dimensions of the metric.
3. Report Data
   After the statistical types are created, you can use the API for Data Reporting to report your data. The dimensions of the reported data should be the same with the dimension group defined in the created metric.

3. Service Limits

Currently, CCM is not supported in Hong Kong region.

API Overview

Last updated : 2020-06-05 21:42:09

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. Namespace Related APIs

Feature	Action ID	Description
Create Namespace	CreateNamespace	Create namespace where users can create metrics
Query Namespace	DescribeNamespace	Query current namespaces
Delete Namespace	DeleteNamespace	Delete namespace according to namespace name

2. Metric Related APIs

Feature	Action ID	Description
Create Metric	CreateMetric	Create metric under namespace and specify its corresponding statistical information
Query Metric	DescribeMetric	Query the metrics under the specified namespace
Modify Metric	ModifyMetric	Modify the unit or metricCname of a metric
Delete Metric	DeleteMetric	Delete metric according to namespace name and metric name
Create Metric Aggregation	CreateMetricAggeration	Aggregate the specified dimensions under the metric to achieve features that can collect or query information of a certain group of dimensions under the metric

Feature	Action ID	Description
Delete Metric Aggregation	DeleteMetricAggeration	Delete aggregation according to specified dimensions of the aggregation
Add Statistical Type	CreateMetricStatisticsType	Add statistical type for specified dimension under the metric
Delete Statistical Type	DeleteMetricStatisticsType	Delete statistical type under specified metric

3. Data Report and Query Related APIs

Feature	Action ID	Description
API for Data Reporting	PutMonitorData	Users can report data once they have created namespaces and metrics. Objects will be generated when data is reported
Query Metric Object List	DescribeObjects	When data is reported, objects corresponding to each of the dimensions will be generated. This API is used to query the objects according to metric-related information
Query Monitoring Data of Metric	GetMonitorData	Acquire monitoring data. The API is used to acquire multiple sets of data (between startTime and endTime) of the specified dimension under the metric
Query Real-Time Monitoring Data of Metric	GetMonitorRealtimeData	Acquire real-time monitoring data of the metric. Data within the most recent period for the specified dimension of the monitored metric will be returned.

4. Alarm Related APIs

Feature	Action ID	Description

Feature	Action ID	Description
Create Alarm Rule	CreateAlarmRule	Add alarm rule for the statistical type under the metric. Alarm is triggered when the condition is met
Query Alarm Rule	DescribeAlarmRuleList	Query the alarm rules under the specified metric of specified namespace
Modify Alarm Rule	ModifyAlarmRule	Modify certain information of the alarm rule
Delete Alarm Rule	DeleteAlarmRule	Delete alarm rule according to alarmRuleId
Bind Alarm Rule to Object	BindAlarmRuleObjects	Bind objects with alarm rule. Corresponding objects will be generated when data is reported
Query Objects Bound with Alarm Rule	DescribeAlarmRuleObjects	Query which objects are bound according to alarm rule ID
Query Alarm Rule Bound with Object	DescribeAlarmRuleByObject	Query corresponding alarm rule of the object according to information such as its dimension
Unbind Alarm Rule from Object	UnbindAlarmRuleObjects	Unbind alarm rule from object according to the alarm rule ID and the dimension information of the object
Bind Alarm Rule from Alarm Recipient	BindAlarmRuleReceivers	Bind alarm rule from alarm recipient according to the alarm rule ID and receiving group ID
Unbind Alarm Rule from Alarm Recipient	UnbindAlarmRuleReceivers	Unbind alarm rule from receivers that are bound with this rule according to the alarm rule ID
Query Alarm List	DescribeAlarmList	Query the alarms for the specified object during specified time period

Update History

Last updated : 2017-07-25 10:21:46

Date	Updates
Jan 3, 2016	The API GetMetricsStatistics was replaced by the API GetMonitorData

Call Method
Request Structure
Request Structure

Last updated : 2017-07-25 11:06:28

The process of calling Tencent Cloud APIs is achieved by sending requests to the server IP addresses of these APIs and adding relevant request parameters in the requests as described in the API descriptions. A request for calling Tencent Cloud API is made up of the following elements:

1. Service Address

The service connection address of Tencent Cloud APIs depends on the modules. For more information, please see the descriptions of each API.

2. Communication Protocol

Most Tencent Cloud APIs communicate over HTTPS to provide high-security channels.

3. Request Methods

Tencent Cloud APIs support both POST and GET requests.
**Note:

1. The two methods cannot be used at the same time. If GET method is used, parameters are obtained from Querystring. If POST method is used, parameters are obtained from Request Body, and the parameters in Querystring will be ignored. The rules for parameter formats are the same for both methods. Generally, GET method is used. If the parameter strings are too long, POST method is used.
2. If GET method is used, all request parameters need to be encoded with URL encoding. This is not needed if POST method is used.**

4. Request Parameters

Two types of parameters are required for each Tencent Cloud API request - common request parameters and API request parameters. Common request parameters are the parameters common to all APIs (For more information, please see [Common Request Parameters](/doc/api/255/Common Request Parameters) section), while API request parameters are parameters specific to each API (For more information, please see "Request Parameters" description of each API.)

5 Character Encoding

All requests for Tencent Cloud APIs and their returned results are encoded using UTF-8 character set.

Public Request Parameters

Last updated : 2020-04-12 20:44:07

Common request parameters are the parameters common to all APIs, and will not be discussed in each API document unless necessary. **They are required in each request for the request to be initiated normally**. The first letter of each common request parameter is in uppercase so that the parameter can be differentiated from API request parameters.

Common request parameters are as follows:

Name	Type	Description	Required
Action	String	The name of the API for the desired operation. For example, if you want to call API Create Namespace, the Action parameter is CreateNamespace.	Yes
Region	String	Region parameter, which is used to identify the region to which the instance you want to work with belongs. The parameter values for regions are as follows: Beijing: bj, Guangzhou: gz, Shanghai: sh, Hong Kong: hk, North America: ca. **Note: Unless otherwise specified in the API document, this parameter is required generally.**	No
Timestamp	UInt	The current UNIX timestamp that records the time at which the API request was initiated.	Yes
Nonce	UInt	A random positive integer that is used in conjunction with Timestamp to prevent replay attacks.	Yes
SecretId	String	The SecretId which is used for identifying identity and applied for on Cloud API Key. A SecretId corresponds to a unique SecretKey, which is used to generate the request Signature. For more information, please see Signature Method.	Yes
Signature	String	Request signature, which is used to verify the validity of the request and is automatically generated by the system based on input parameters. For more information, please see Signature Method.	Yes

A complete request requires two types of request parameters: common request parameters and API request parameters. Only six common request parameters are listed above. For more information on

API request parameters, please see API Request Parameters section.

API Request Parameters

Last updated : 2017-07-25 11:15:11

API request parameters are specific to each API. Different APIs support different API request parameters. The first letter of each API request parameter is in lowercase so that the parameters can be differentiated from common request parameters.
Take API Create Namespace (CreateNamespace) as an example. It supports the following API request parameters:

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace: It contains 32 characters, including letters, numbers and underscores

The above field is described below:

Parameter Name	Name of request parameter supported by the API. The user can use this name as an API request parameter when using this API.
Required	Indicate whether this parameter is required. "Yes" means the parameter is required when you call the API. "No" means the parameter is not required. All the API request parameters are required in the API "Create Namespace" (CreateNamespace).
Type	Data type of the API parameter.
Description	A brief description of the API request parameter.

If a user wants to create a namespace, the request link may be as follows:

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=name1
```

A complete request requires two types of request parameters: common request parameters and API request parameters. Only API request parameters are listed above. For more information on common request parameters, please see Common Request Parameters section.

Final Request Mode

Last updated : 2017-07-25 11:15:29

The final request URL is made up of the following elements:

1) Request domain name: The request domain name of the API Create Namespace(CreateNamespace) is: monitor.api.qcloud.com. The actual request domain varies depending on the module to which the API belongs. For more information, please see the description of each API.
2) Request path: The request path of Cloud API is always /v2/index.php.
3) Final request parameter string: API Request Parameters

The final request URL is generated as follows:

```
https:// + request domain name + request path + ? +final request parameter string
```

The final request URL is as follows. The first six parameters are common request parameters, and the last one is API request parameter.

```
https://monitor.api.qcloud.com/v2/index.php?
Action=CreateNamespace
&SecretId=xxxxxxx
&Region=gz
&Timestamp=1465055529
&Nonce=59485
&Signature=mysignature
&namespace=name1
```

Return Codes

Return Code Format of Async Task API

Last updated : 2017-07-25 10:23:21

1. Return format for ordinary asynchronous task APIs

For such asynchronous task APIs, one request operates only one resource, for example creating load balance, resetting the host operating system.

Name	Type	Description	Required
code	Int	Error code, 0 for succeeded, other values for failed.	Yes
message	String	Error message returned	No
requestId	String	Task No.	Yes

2. Return Format of Batch Asynchronous Task APIs

For such asynchronous task APIs, one request operates multiple resources, for example changing passwords, starting machines, stopping machines.

Name	Type	Description	Required
code	Int	Error code, 0 for succeeded, other values for failed.	Yes
message	String	Error message returned	No
detail	Array	The resource ID is used as the key and the code, message, requestId for the resource operation is returned.	Yes

For example:

```
{
”code”:0,
”message”: ”success”,
”detail”:
{
”qcvm6a456b0d8f01d4b2b1f5073d3fb8ccc0”:
```

```
{
"code":0,
"message":"",
"requestId":"1231231231231",
}
"qcvm6a456b0d8f01d4b2b1f5073d3fb8ccc0":
{
"code":0,
"message":"",
"requestId":"1231231231232",
}
}
}
```


Note:

If all resource operations succeeded, the outermost code is 0

If all resource operations failed, the outermost code will be 5100

If some resource operations failed, the outermost code will be 5400

In the third case, the terminal can get information about the failed operations via details.

Return Success Codes

Last updated : 2017-07-25 11:18:28

If an API call succeeds, the error code in the returned result is 0, the error message field is empty, and the returned data result is displayed.
Example:

```
{
"code": 0,
"message": "",
<Returned result data>
}
```

Return Error Codes

Last updated : 2017-07-25 11:18:47

If an API call fails, the error code in the returned result is not 0, and the message field shows the detailed error information. You can query detailed error information on Error Code page based on code and message.
Example of returned error:

```
{
"code": 4000,
"message": "(- 514) Resource already exists"
}
```

Error Codes

Last updated : 2017-07-25 11:19:07

1. Common Error Codes

The error codes in the returned result indicate the result of the call to the cloud API. "code" is common error code, which applies to APIs of all modules. A code of 0 means the call succeeded. Other values means the call failed. If a call fails, you can find out the cause of the error and take appropriate actions based on the following table.

Error Code	Error Type	Description
4000	Invalid request parameter	Required parameter is missing, or parameter value is not in a correct format. For relevant error message, please see the "message" field in error description.
4100	Authentication failed	Signature authentication failed. For more information, please see the Authentication section in the document.
4200	Request expired	The request has expired. For more information, please see the Request Validity Period section in the document.
4300	Access denied	Account is blocked or not within the user range of the API.
4400	Quota is exceeded	The number of requests exceeds the quota. For more information, please see the Request Quota section in the document.
4500	Replay attack	The Nonce and Timestamp parameters can ensure that each request is executed only once on the server. Therefore, the Nonce value cannot be the same as last one, and the difference between Timestamp and Tencent server time cannot be greater than 2 hours.
4600	Protocol is not supported	The protocol is not supported. For more information, please see the relevant document.
5000	Resource does not exist	The instance corresponding to resource ID does not exist, or the instance has been returned, or another user's resource is accessed.
5100	Resource operation failed	The operation performed on the resource failed. For detailed error message, please see the "message" field in error description. Try again later or contact customer service for help.

5200	Failed to purchase resource	The resource purchase failed. This is may be caused by unsupported instance configuration or insufficient resource.
5300	Failed to purchase resource	The resource purchase failed because of insufficient balance.
5400	Part of operations performed successfully	Part of the batch operations have been performed successfully. For more information, please see the returned value of method.
5500	User failed to pass identity verification	Resource purchase failed because the user failed to pass identity verification.
6000	Internal error on the server	An internal error occurred on the server. Try again later or contact customer service personnel for help.
6100	Not supported by the version	This API is not supported in this version or the API is under maintenance. Note: When this error occurs, first check whether the domain of the API is correct. Different modules may have different domains.
6200	API is temporarily unavailable	The API is under maintenance and is unavailable. Please try again later.

2. Module Error Codes

"message" field indicates errors related to modules.
Example:
"message": "(- 514) Resource already exists"
It consists of two parts - the string within () indicates the module error code, and the string following () is the error description.
Different modules may produce different errors. You can identify the cause of error based on error description.

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter

Error Code	Error Description	Error Message
-507	Limit is exceeded	OperationDenied.ExceedLimit
-513	DB operation failed	InternalError.DBoperationFail
-514	Resource already exists	OperationDenied.SourceAlreadyExists
-509	Incorrect combination of dimensions	InvalidParameter.DimensionGroupError
-502	Resource does not exist	OperationDenied.SourceNotExists
-515	Operation is impossible because a sub-resource exists	OperationDenied.SubresourceExist
-505	Parameter is missing	InvalidParameter.MissingParameter

Custom Monitoring API
Namespace API
Create Namespace

Last updated : 2020-06-05 21:42:31

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

Namespace is a container of metrics. Metrics in different namespaces are independent from each other. So the metrics from different applications will not be mistakenly aggregated into the same statistical information. CCM allows you to customize namespace and store data across multiple regions. For example, proc_monitor, i.e. monitoring A process in Guangzhou region. This API provides capacity to create a custom namespace.

This API (CreateNamespace) is used to create a custom namespace.
For more information on how many namespaces a user can create, please see Product Limitation page.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called.The Action field for this API is CreateNamespace.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace: It contains 32 characters, including letters, numbers and underscores.

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail
-514	Resource already exists	OperationDenied.SourceAlreadyExists

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=CreateNamespace
&namespace=cvm
```

Output

```
{
'code': 0,
'message': ''
}.
```

Query Namespace

Last updated : 2020-06-05 21:42:44

1. API Description

This API (DescribeNamespace) is used to query all the created namespaces.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DescribeNamespace.

Parameter Name	Required	Type	Description
None	No	None	None

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message
data	Array	Array for returning Namespace name

4. Error Codes

Error Code	Error Description	Error Message

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=DescribeNamespace
&<Common request parameters>
```

Output

```
 {
'code': 0,
'message': ''
'data': ["cvm","process"]
}
```

Indicate two existing Namespace with the names of cvm and process

Delete Namespace

Last updated : 2020-06-05 21:43:08

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DeleteNamespace) is used to delete a custom namespace. A namespace with metrics cannot be deleted. Please delete the metrics before deleting the namespace.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when this API is called. The Action field for this API is DeleteNamespace.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail
-514	Resource already exists	OperationDenied.SourceAlreadyExists

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=DeleteNamespace
&namespace=cvm
```

Output

```
{
'code': 0,
'message': ''
}
```

Index API
Create Index

Last updated : 2020-06-05 21:43:32

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (CreateMetric) is used to create a metric under a namespace for data analysis.
For more information about the number of metrics and dimensions, please see Product Limitation page
When you use this API to create a metric, you can also add the statistical type under the metric. Add statistical type when you enter statisticsType.m.period and statisticsType.m.statistics.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called.The Action field for this API is CreateMetric.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name, which is comprised of letters, numbers and underscores
metricCname	Yes	String	Chinese name of the metric
dimensionNames.n	Yes	Array	Statistical dimension name of the metric
unit	No	String	The unit used when user reports data. Default is empty string

statisticsType.m.period	No	Int	Statistical period. The time interval for data collection. Currently, default is 300 seconds, which cannot be modified
statisticsType.m.statistics	No	String	Analyze the data set within a specified statistical period. Available analytical methods are: max (to take the maximum value in the data set), min (to take the minimum value in the data set), sum (to take the sum of all data in the data set), avg (to take the average value of all data in the data set), last (to take the last value in the data set)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail
-514	Resource already exists	OperationDenied.SourceAlreadyExists

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensionNames.0=ip
&dimensionNames.1=diskname
&metricCname='Disk utilization'
&statisticsType.0.period=300
&statisticsType.0.statistics=max
```

Output

```
{
'code': 0,
'message': ''
}
```

Query Index

Last updated : 2020-06-05 21:44:10

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DescribeMetric) is used to view the metrics created under a namespace.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DescribeMetric.

Parameter Name	Required	Type	Description
namespace	Yes	String	Query the metrics under the namespace. This can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	No	String	Filtering by metric name. Information of all the metrics under the namespace will be returned if this is left empty.

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

data	Array	Returned array

Each metric returned by "data" is defined as follows:

Parameter Name	Type	Description
namespace	String	Namespace where the metric resides in
metricName	String	Metric name
metricCname	String	Chinese name of the metric
dimension	String	Metric dimension name
unit	String	Unit of the reported data
statisticsType	Array	Statistical type
aggeration	Array	Aggregation dimension. You can view aggregation information using API Create Metric Aggregation

"statisticsType" is composed as follows:

Parameter Name	Type	Description
period	Int	Statistical period. The time interval for data collection. Currently, default is 300 seconds, which cannot be modified
statistics	String	Statistical method function, which analyzes the data set within a specified statistical period. Available analytic methods are: max (to take the maximum value in the data set), min (to take the minimum value in the data set), sum (to take the sum of all data in the data set), avg (to take the average value of all data in the data set), last (to take the last value in the data set)

For the array of aggregation, key is the group of aggregated dimension names, and value is statistical type

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail

5. Example

Input

```
https://domain/v2/index.php?Action=DescribeMetric
&<Common request parameters>
&namespace=cvm
```

Output

```
{
"code": 0,
"message": "",
"data": {
"cvm": {
"diskusage": {
"namespace": "cvm",
"metricName": "diskusage",
"unit": "'%'",
"metricCname": ""Machine disk utilization"",
"dimension": "diskname,ip",
"statisticsType": [
{
"period": "300",
"statistics": "max"
},
{
"period": "300",
"statistics": "avg"
}
],
"aggeration": {
"ip": [
```

```
{
"period": "300",
"statistics": "max"
}
]
}
}
}
}
}
```

Edit Index

Last updated : 2020-06-05 21:44:48

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (ModifyMetric) is used to modify a metric. Only unit or metricCname of the metric can be modified.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is ModifyMetric.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name, which can be queried by calling the API Query Metric (DescribeMetric)
metricCname	Yes	String	Metric name
unit	No	String	Display unit of the reported data

3. Output Parameters

Parameter Name	Type	Description

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=ModifyMetric
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&metricCname='Machine disk utilization'
&unit='%'
```

Output

```
{
"code":"0",
"message":""
}
```

Delete Index

Last updated : 2020-06-05 21:45:32

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DeleteMetric) is used to delete the metrics under a specified namespace.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DeleteMetric.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name, which can be queried by calling the API Query Metric (DescribeMetric)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
```

Output

```
{
'code': 0,
'message': ''
}
```

Create Aggregation Index

Last updated : 2020-06-08 14:26:08

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (CreateMetricAggeration) is used to add metric aggregation. To aggregate the specified dimensions under the metric to achieve features that can collect or query information of a certain group of dimensions under the metric.
For example: The metric diskusage has the dimension dimensionNames.0=ip dimensionNames.1=diskname
You can specify dimension IP only when you aggregate the dimension dimensionNames.0=ip and call the API "Add Statistical Type". Here, the disk utilization is calculated using machine IP dimension.

Domain name: monitor.api.qcloud.com

2. Input Parameters

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name, which can be queried by calling the API DescribeMetric
dimensionNames.n	Yes	String	Name of dimension to be aggregated. It can be queried by calling the API DescribeMetric
statisticsType.m.period	No	Int	Statistical period. Currently you can only enter 300 seconds
statisticsType.m.statistics	No	String	Statistical type added for the aggregation dimension, such as max, min, last, sum, avg, etc

Add statistical types for all dimensions under the aggregation when you enter statisticsType.m.statistics and statisticsType.m.period

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail
-514	Resource already exists	OperationDenied.SourceAlreadyExists

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=CreateMetricAggeration
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensionNames.0=ip
&statisticsType.0.period=300
&statisticsType.0.statistics=max
```

Output

```
{
"code":"0",
"message":""
}
```

Add Statistics Type

Last updated : 2020-06-05 21:46:55

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (CreateMetricStatisticsType) is used to add statistical types for a specified dimension under a metric. A metric may have multiple statistical types.
A metric must have a statistical type, so the analysis result of the reported data can be queried.
You can skip this API if you have entered the information of statistical types when you Create Metric or Create Metric Aggregation.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is CreateMetricStatisticsType.

Parameter Name	Required	Type	Description
namespace	Yes	String	Add the statistical types for the metrics under the namespace. This can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Add statistical types for the metric. This can be queried by calling the API Query Metric (DescribeMetric)
dimensionNames.n	Yes	Array	Group of all the dimensions or group of aggregated dimensions under the metric. This can be queried by calling the API Query Metric (DescribeMetric)
statisticsType.m.period	Yes	Int	Statistical period (in sec). Currently, you

			must enter 300 seconds, and other values are not supported
statisticsType.m.statistics	Yes	String	Statistical type, including max, min, last, sum, avg, etc.

The subscript n in dimensionNames.n is the subscript of the dimension under the metric.
You can enter the original dimensions of the metric (i.e. all the dimensions under the metric) or aggregated dimensions under the metric

statisticsType.m.statistics and statisticsType.m.period always come in pairs. You can add multiple groups of statistical types for the dimension of the metric.
The subscript m is the digit subscript of different statistical types
For example: statisticsType.0.statistics=max statisticsType.0.period=300
statisticsType.1.statistics=min statisticsType.1.period=300
This means to take the maximum and minimum values of the reported data within the statistical period (5 minutes).

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError

Error Code	Error Description	Error Message
-513	DB operation failed	InternalError.DBoperationFail

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensionNames.0=ip
&dimensionNames.1=diskname
&statisticsType.0.period=300
&statisticsType.0.statistics=avg
```

Output

```
{
'code': 0,
'message': ''
}
```

Delete Statistics Type

Last updated : 2020-06-05 21:47:21

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DeleteMetricStatisticsType) is used to delete the statistical types under a specified metric.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DeleteMetricStatisticsType.

Parameter Name	Required	Type	Description
namespace	Yes	String	Delete the statistical types for the metrics under the namespace. This can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Delete statistical types for the metric. This can be queried by calling the API Query Metric (DescribeMetric)
dimensionNames.n	Yes	Array	Group of dimension names, which is the same with the group of dimensions with statistical types
statisticsType.m.statistics	Yes	String	Existing statistical information can be queried by calling the API Query Metric (DescribeMetric)
statisticsType.m.period	Yes	Int	Existing statistical information can be queried by calling the API Query Metric (DescribeMetric)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful; other values: Failed. For more information, please see Error Codes
message	String	Error message

4. Error Codes

Error Code	Error Description	Error Message
-503	Incorrect request parameter	InvalidParameter
-505	Parameter is missing	InvalidParameter.MissingParameter
-507	Limit has been exceeded	OperationDenied.ExceedLimit
-509	Incorrect dimension group	InvalidParameter.DimensionGroupError
-513	DB operation failed	InternalError.DBoperationFail

5. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensionNames.0=ip
&dimensionNames.1=diskname
&statisticsType.0.period=300
&statisticsType.0.statistics=avg
```

Output

```
{
'code': 0,
'message': ''
}
```

Data Report and Query API
Data Report API

Last updated : 2020-06-05 21:47:44

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (PutMonitorData) is used to report data.

1. **This API supports HTTP protocol only, and its domain name port is 8080**.
2. Currently, the domain name "receiver.monitor.tencentyun.com" can only be accessed within Tencent CVM.
3. Region filed in this API is the region where CVM resides in.

Domain name: **receiver.monitor.tencentyun.com:8080**

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see Common Request Parameters page. The Action field for this API is PutMonitorData.

Parameter Name	Required	Type	Description
Namespace	Yes	String	Namespace. This can be queried by calling the API DescribeNamespace
Data	Yes	Array	The reported data needs to be encapsulated using JSON format

"data" is composed as follows:

Parameter Name	Required	Type	Description
dimensions	Yes	Array	Dimension key and value group. The dimension key needs to be identical with the dimension name queried by calling API . Dimension value group can be customized
metricName	Yes	String	Metric name. This can be queried by calling the API DescribeMetric
value	Yes	Float	Specific data

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. If failed, error codes can be found in section 7
message	String	Error message

4. Example

Input

```
http://receiver.monitor.tencentyun.com:8080/v2/index.php?Action=PutMonitorData
&SecretId=xxxxxxx
&Region=gz
&Timestamp=1402992826
&Nonce=345122
&Signature=mysignature
&Namespace=cvm
&Data=[{"dimensions":{"diskname":"disk1","ip":"172.31.58.160"},"metricName":"diskusage","value":30}]
```

Output

```
{
"code":0,
"message":"OK"
}
```

5. Generate Signature field for this API

The signature method of this API is different from that of any other API, as shown below:
For step "2. Generate signature string" of Signature Method, there are two differences.

5.1 Input parameters are different in " Sorting parameters"

In step "2.1 Sorting parameters" of Signature Method
The input parameters for this API only contain the following fields:

Parameter Name	Description	Parameter Value
Action	Method name	PutMonitorData
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
Timestamp	Current time stamp	1408704141
Nonce	A random positive integer	345122
Region	Region where the instance resides in	gz

The result in which parameters are sorted in lexicographical order is as follows:

```
{
'Action' : 'PutMonitorData',
'Nonce' : 345122,
'Region' : 'gz',
'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA',
'Timestamp' : 1408704141
}
```

5.2 Request CVM is different in "Generating original signature string

In step "2.3 Generating original signature string" of Signature Method
The request CVM in this API: **receiver.monitor.tencentyun.com**
The resulting string is:

```
GETreceiver.monitor.tencentyun.com/v2/index.php?Action=PutMonitorData&Nonce=345122&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1408704141
```

Other steps are the same with those in Signature Method

6. Example of Data Reporting API (Python)

POST method

```
{
"Action": "PutMonitorData",
"SecretId": "xxxxxxx",
"Region": "sh",
"Timestamp": 1402992826,
"Nonce": 345122,
"Signature": "mysignature",
"Namespace": "pc",
"Data":[{"dimensions":{"diskname":"sda","ip":"172.31.58.160"},"metricName":"diskusage","value":0.
3}]
}
```

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

import urllib2
import time
import json
import random
import hmac
import hashlib

class NwsSender:
def init(self):
self.url='http://receiver.monitor.tencentyun.com:8080/v2/index.php'
self.timeout=10
def send_data(self,json_data):
try:
req=urllib2.Request(self.url)
req.add_header('Content-Type','application/json')
timeout=self.timeout
data=json.dumps(json_data)
http_ret=urllib2.urlopen(req,data,timeout)
response=http_ret.read()
try:
json_resp=json.loads(response)
retcode=int(json_resp["code"])
if retcode!=0:
```

```
print "send error,retcode:%d,msg:%s,data:%s" % (retcode,json_resp['message'],data)
else:
print "send succ,data:%s" % response
except ValueError,e:
print 'value error:%s' % response
except urllib2.URLError,e:
print "send error"+str(e)+data
def main():
secretId="AKDuXhrYW5ilcFO11bakwWTF7ogwCl8ugEY"
secretKey="tsPHxrAB8fhffaGNmHZDjNSsBm3Ewdm"
region='sh'
data={
"SecretId":secretId,
"Namespace":"pc",
"Region":region,
"Data":[
{"dimensions":{"diskname":"sda","ip":"172.31.58.160"},
"metricName":"diskusage",
"value":0.3
}
]
}
sender=NwsSender()
sender.init()
while True:
ts=int(time.time())
nonce=random.randint(10000,100000)
text="POSTreceiver.monitor.tencentyun.com/v2/index.php?Action=PutMonitorData&Nonce=%d&Region=%s&S
ecretId=%s&Timestam
p=%d" % (nonce,region,secretId,ts)
data['Timestamp']=ts
data['Nonce']=nonce
data['Signature']=hmac.new(secretKey,text,hashlib.sha1).digest().encode("base64").rstrip('¥n')
sender.send_data(data)
time.sleep(3)
if __name__=='__main__':
main()
```

GET method (Finally, parameters need to be encoded using UrlEncode)

```
http://receiver.monitor.tencentyun.com:8080/v2/index.php?Action=PutMonitorData&SecretId=xxxxxxx&R
egion=sh&Timestamp=1402992826&Nonce=345122&Signature=mysignature
&Namespace=name1
&Data=[{"dimensions":{"diskname":"sda","ip":"172.31.58.160"},"metricName":"diskusage","value":0.
3}]
```

```
#! /usr/bin/env python
# -*- coding:utf-8 -*-
import urllib
import urllib2
import time
import json
import random
import hmac
import hashlib

class NwsSender:
def init(self):
self.url='http://receiver.monitor.tencentyun.com:8080/v2/index.php'
self.timeout=10
def send_data(self,data):
try:
req=urllib2.Request(url=self.url+ "?" + data)
timeout=self.timeout
http_ret=urllib2.urlopen(req, timeout = timeout)
response=http_ret.read()
try:
json_resp=json.loads(response)
retcode=int(json_resp["code"])
if retcode!=0:
print "send error,retcode:%d,msg:%s,data:%s" % (retcode,json_resp['message'],data)
else:
print "send succ,data:%s" % response
except ValueError,e:
print 'value error:%s' % response
except urllib2.URLError,e:
print "send error"+str(e)+data


def main():
secretId="AKIDDuYW5ilcFO1bakwWTF7og1wCl8ugEY"
secretKey="tsfzPHxrffaGNmHZDjNSsBm23Ewdm"
region='sh'
data={
"SecretId":secretId,
"Namespace":"name1",
"Region":region,
}
Data=[
{"dimensions":{"diskname":"sda","ip":"172.31.58.160"},
"metricName":"diskusage",
"value":0.3
}
```

```
]

data["Data"]=json.dumps(Data)
sender=NwsSender()
sender.init()
while True:
ts=int(time.time())
nonce=random.randint(10000,100000)
text="GETreceiver.monitor.tencentyun.com/v2/index.php?Action=PutMonitorData&Nonce=%d&Region=%s&SecretId=%s&Timestamp
=%d" % (nonce,region,secretId,ts)
data['Timestamp']=ts
data['Nonce']=nonce
data['Signature']=hmac.new(secretKey,text,hashlib.sha1).digest().encode("base64").rstrip('¥n')
xx = urllib.urlencode(data)
sender.send_data(xx)
time.sleep(3)
```

If data is reported successfully, the output is:

```
{
"code":0,
"message":"OK"
}
```

7. Error Codes

Error Code	Description
0	CVM has successfully received the data
1000	HTTP method is not supported. You cannot send request using POST or GET method
1001	Failed CGI request. CGI of this request is not supported
1002	Service is not ready. Try again later
1003	CVM internal logic failed
1004	Request content does not exist
1005	Request content is not in JSON format

Error Code	Description
1006	Too many SecretId requests received within the time period. CVM protection mechanism sets a limit on frequency
1007	Exception in frequency limitation feature of CVM
1008	Client is blocked by CVM
1009	Missing parameter
1010	Incorrect parameter type
1011	Invalid client ID (authentication failed)
1012	The API called does not conform to the API specifications
1013	Invalid parameter
1014	Data is discarded because routing information is missing
1015	Length of data exceeds the upper limit
1016	Invalid Namespace
1017	Dimension verification failed
1018	The number of metrics sent within the time period exceeds the upper limit
1019	Valid metric data is not reported
1020	Length of dimension or metric name exceeds the limit
1021	Invalid time stamp

Query Index Object List

Last updated : 2020-06-05 21:48:20

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DescribeObjects) is used to query the metric object list. After the data is reported, you can call this API to query the dimension information of the data you reported.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when this API is called. The Action field for this API is DescribeObjects.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace. This can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name. This can be queried by calling the API Query Metric (DescribeMetric)
dimensionNames.n	Yes	Array	Group of dimension names. This can be queried by calling the API Query Metric (DescribeMetric). Enter all the dimensions or part of the aggregated dimensions under the metric
offset	No	Int	Offset. Default is 0 (result is displayed from the first record)
limit	No	Int	The number of records displayed on each page. Default is 30. The record is displayed from offset, and the number of records displayed is limit

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message
data	Array	Specific information of object
total	Int	Total number of objects

"data" of the records contains dimension name and the corresponding dimension group list

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensionNames.0=ip
&dimensionNames.1=diskname
```

Output

```
{
"code": 0,
"message": "",
"data": {
"records": [
{
"diskname": "sda",
"ip": "172.31.58.160"
},
{
"diskname": "sda",
"ip": "172.31.58.161"
}
],
```

```
"total": 2
}
}
```

Query Real-Time Index Monitoring Data

Last updated : 2020-06-05 21:49:30

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (GetMonitorRealtimeData) is used to obtain real-time monitoring data of the metric. The statistical result of the data you reported that is analyzed using specified statistical method within the most recent period (300 seconds) will be returned.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is GetMonitorRealtimeData.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace. This can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name. This can be queried by calling the API Query Metric (DescribeMetric)
dimensions.N.name	Yes	String	Group of dimension names. You can call the API Query Metric Object List (DescribeMetric) to query all the dimensions or part of the aggregated dimensions under the metric
dimensions.N.value	Yes	String	Group of dimension values. You can call the API <a href="/doc/api/255 title="Query Metric Object List">Query Metric Object List (DescribeObjects) to query the dimension values corresponding to the dimension names

Parameter Name	Required	Type	Description
statistics	Yes	String	Statistical method. This can be queried by calling the API <a href="/doc/api/255/ title="Query Metric">Query Metric (DescribeMetric). Enter the statistical method of the metric
period	Yes	Int	Statistical period. Currently you can only enter 300

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message
data	array	Specific information of object

"data" is composed as follows:

Parameter Name	Type	Description
dimensions.name&dimensions.value	String	The string comprised of dimension and its value with & in between
value	Int	Statistical result
updateTime	datetime	End time of data analysis

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensions.0.name=ip
```

```
&dimensions.1.name=diskname
&dimensions.0.value=172.31.58.160
&dimensions.1.value=sda
&period=300
&statistics=max
```

Output


```
{
"code": 0,
"message": "",
"data": {
"diskname=sda&ip=172.31.58.160": {
"value": 0.8,
"updateTime": "2016-06-21 22:40:00"
}
}
}
```


Note: If the queried object exists, "data" field in the returned result is null.

In the returned result, 0.8 is the maximum value analyzed within the time period from 22:35 to 22:40.

Alarm API
Query Alarm Rule

Last updated : 2020-06-05 21:50:38

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DescribeAlarmRuleList) is used to query the list of created alarm rules.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DescribeAlarmRuleList.

Parameter Name	Required	Type	Description
namespace	Yes	String	Namespace. This can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	No	string	Metric name. All rules under the namespace will be returned if this is left empty. Metric names can be queried by calling the API Query Metric (DescribeMetric)
offset	No	Int	Offset. Default is 0 (i.e. query result is displayed from the first alarm rule)
rows	No	Int	Number of rows to be displayed in the result. Default is 30. Starting from offset, this number of alarm rules are displayed

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message
data	Array	This field exists if there is additional returned information

"data" field contains:

Parameter Name	Type	Description
ruleList	Array	Details of the alarm rules
total	Int	Number of rules

"ruleList" field contains:

Parameter Name	Type	Description
alarmRuleId	String	Alarm rule ID
namespace	String	Namespace in which the alarm rule resides
metricName	String	Name of the metric in which the alarm ru

le resides |
dimensionGroup	String	Group of dimension names
operatorType	String	Operator
threshold	Int	Threshold
constancy	Int	Number of periods for the alarm to persist
period	Int	Statistical period (in sec)
statistics	String	Statistical method of the alarm rule, which determines how the statistics within specified statistical period shall be taken from a data set. Available analytical methods are: max (to take the maximum value in the data set), min (to take the minimum value in the data set), sum (to take the sum of all data in the data set), avg (to take the average value of all data in the data set), last (to take the last value in the data set)
isWild	Int	Whether the rule is a wildcard rule. A wildcard rule applies to all the objects in the

metric name group and cannot be bound to specific objects |
| receiversId | Int | Receiving group ID for the alarm. "0" means no receiving group is bound with the alarm rule |

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=DescribeAlarmRuleList
&<Common request parameters>
&namespace=cvm
```

Output

```
{
"code": 0,
"message": "",
"data": {
"ruleList": [
{
"alarmRuleId": "policy-ou3kyu2f",
"namespace": "cvm",
"metricName": "diskusage",
"dimensionGroup": "diskname,ip",
"operatorType": ">=",
"threshold": "100",
"constancy": "4",
"period": "300",
"statistics": "max",
"isWild": "0",
"receiversId": "0"
}
],
"total": "1"
}
}
```

Edit Alarm Rule

Last updated : 2020-06-05 21:51:11

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (ModifyAlarmRule) is used to modify alarm rule. You can modify the comparison type, alarm threshold, number of consecutive periods, alarm receiving group ID of the rule.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is ModifyAlarmRule.

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Alarm rule ID, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList)
operatorType	No	String	Comparison type (operator), available values are >, < 、>=, <=, !=, ==. This indicates the comparison method of the alarm rule
threshold	No	Int	Alarm threshold
constancy	No	Int	Number of consecutive periods. Currently, default period is 300 seconds
receiversId	No	Int	Alarm receiving group ID

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=ModifyAlarmRule
&<Common request parameters>
&alarmRuleId=policy-eqzqq79naz
&receiversId=8888
```

Output

```
{
"code":"0",
"message":""
}
```

Delete Alarm Rule

Last updated : 2020-06-05 21:51:39

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DeleteAlarmRule) is used to delete alarm rule.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DeleteAlarmRule.

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Alarm rule ID, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see <a href="/doc/api/255 title="Error Codes">Common Error Codes on the Error Codes page
message	String	Error message

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&alarmRuleId=policy-ky4nqk3zax
```

Output

```
{
"code":"0",
"message":""
}
```

Bind Alarm Rule and Object

Last updated : 2020-06-05 21:52:01

1. API Description

This API (BindAlarmRuleObjects) is used to bind an alarm rule to objects. Once objects are bound with alarm rule, data reported by corresponding objects is analyzed according to the alarm rule, and alarm will be triggered when the trigger conditions of the alarm rule are met.
Objects refer to the entities whose statistics are being collected. For example, when disk utilization information is collected, the disk is the object, which is determined by the dimension names and values: dimensions.0.name=ip, dimensions.1.name=diskname, dimensions.0.value=172.31.58.160, dimensions.1.value=sda.
An alarm rule can be bound to different objects. An object can also be bound with different alarm rules.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is BindAlarmRuleObjects.

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Alarm rule ID, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList)
dimensions.n.name	Yes	String	An array containing the names of the dimension groups, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList). Enter the fields that correspond to dimensionGroup in the returned values
dimensions.n.value	Yes	string	An array containing the values of the dimension groups, which is customized by the user. These values are the values of dimensions.n.name

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&alarmRuleId = policy-ou3kyu2f
&dimensions.0.name=ip
&dimensions.1.name=diskname
&dimensions.0.value=172.31.58.160
&dimensions.1.value=sda
```

Output

```
{
"code":"0",
"message":""
}
```

Query Objects of Bound Alarm Rule

Last updated : 2020-06-05 21:52:42

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DescribeAlarmRuleObjects) is used to query information of the objects that are bound with the alarm rule using the alarm rule ID.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is DescribeAlarmRuleObjects.

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Rule ID, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList)
offset	No	Int	Offset. Default is 0 (i.e. query result is displayed from the first alarm rule)
limit	No	Int	Number of rows to be displayed in the result. Default is 30. Starting from offset, this number of alarm rules are displayed

3. Output Parameters

Parameter Name	Type	Description

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message
data	Array	This field exists if there is additional returned information

"data" is composed as follows:

Parameter Name	Type	Description
ruleBindList	Array	List of objects that are bound with the alarm rule (each element in the array is the detailed description of an object. For more information, please see example)
total	Int	Number of objects bound with the alarm rule

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&alarmRuleId=policy-ou3kyu2f
```

Output

```
{
"code": 0,
"message": "",
"data": {
"ruleBindList": [
{
"diskname": "sda",
"ip": "172.31.58.160"
}
],
"total": "1"
```

```
}
}
```

Query Alarm Rule of Bound Object

Last updated : 2020-06-05 21:53:11

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DescribeAlarmRuleByObject) is used to query alarm rules bound to the specified object.

Domain name: monitor.api.qcloud.com

2. Input Parameters

Parameter Name	Required	Type	Description
namespace	Yes	string	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace)
metricName	Yes	String	Metric name. This can be queried by calling the API Query Metric (DescribeMetric)
dimensions.n.name	Yes	array	Key of the dimension group. This can be queried by calling the API Query Metric Object List (DescribeObjects)
dimensions.n.value	Yes	array	Value of the dimension group. This can be queried by calling the API Query Metric Object List (DescribeObjects)
offset	No	int	Offset. Default is 0 (i.e. query result is displayed from the first alarm rule)
limit	No	int	Number of rows to be displayed in the result. Default is 30. Starting from offset, this number of alarm rules are displayed

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message
data	Array	Returned Result

"data" is composed as follows:

Parameter Name	Type	Description
ruleList	Array	List of objects bound with the alarm rule
total	Int	Number of returned ruleLists

"ruleList" contains:

Parameter Name	Type	Description
alarmRuleId	String	Alarm rule ID
namespace	String	Namespace
metricName	String	Metric name
dimensionGroup	String	Dimension group name
operatorType	String	Operator
threshold	Int	Exception triggering threshold
constancy	Int	Number of periods for the exception to persist before alarm is triggered
period	Int	Statistical period. Currently you can only enter "300s"
statistics	String	Statistical method. Available values are: sum, last, avg, min, max
receiversId	String	Alarm receiving group ID

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&namespace=cvm
&metricName=diskusage
&dimensions.0.name=ip
&dimensions.0.value=172.31.58.160
&dimensions.1.name=diskname
&dimensions.1.value=sda
```

Output

```
{
"code": 0,
"message": "",
"data": {
"ruleList": [
{
"alarmRuleId": "policy-ou3kyu2f",
"namespace": "cvm",
"metricName": "diskusage",
"dimensionGroup": "diskname,ip",
"operatorType": ">=",
"threshold": "100",
"constancy": "4",
"period": "300",
"statistics": "max",
"isWild": "0",
"receiversId": "0"
}
],
"total": "1"
}
}
```

Unbind Alarm Rule and Object

Last updated : 2020-06-05 21:53:49

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (UnbindAlarmRuleObjects) is used to unbind alarm rule from object. Once unbound from the object, the alarm rule will no longer analyze the data reported by the object.

Domain name: monitor.api.qcloud.com

2. Input Parameters

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Rule ID, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList)
dimensions.n.name	Yes	String	Key of the dimension group, which can be queried by calling the API Query Objects Bound with Alarm Rule (DescribeAlarmRuleByObject)
dimensions.n.value	Yes	string	Value of the dimension group, which can be queried by calling the API Query Objects Bound with Alarm Rule (DescribeAlarmRuleByObject)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&alarmRuleId = policy-f3h1bxvcsb
&dimensions.0.name=diskname
&dimensions.1.name=ip
&dimensions.0.value=sda
&dimensions.1.value=172.31.58.160
```

Output

```
{
"code":"0",
"message":""
}
```

Unbind Alarm Rule with Alarm Receiver

Last updated : 2020-06-05 21:54:22

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (BindAlarmRuleReceivers) is used to bind alarm rule to receiving group.
When data in the object that is bound with an alarm rule satisfies the alarm conditions, users in the receiving groups will receive the alarm information.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is BindAlarmRuleReceivers.

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Alarm rule ID, which can be queried by calling the API Query Alarm Rule

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=BindAlarmRuleReceivers
&alarmRuleId=policy-eqzqq79naz
&receiversId=1001
```

Output

```
{
"code":"0",
"message":""
}
```

Unbind Alarm Rule and Alarm Receiver

Last updated : 2020-06-05 21:54:40

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (UnbindAlarmRuleReceivers) is used to unbind alarm rule from receiving group. Currently, an alarm rule can be bound to only one receiving group, so the unbinding operation does not require information of the alarm receiving group to unbind alarm rule from its corresponding receiving group.

Domain name: monitor.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. The Action field for this API is UnbindAlarmRuleReceivers.

Parameter Name	Required	Type	Description
alarmRuleId	Yes	String	Alarm rule ID, which can be queried by calling the API Query Alarm Rule (DescribeAlarmRuleList)

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?
&<Common request parameters>
&alarmRuleId=policy-f3h1bxvcsb
```

Output

```
{
"code":"0",
"message":"",
}
```

Query Alarm List

Last updated : 2020-06-05 21:55:27

⚠ Note :

This is a legacy API which has been hidden and will no longer be updated.

1. API Description

This API (DescribeAlarmList) is used to query the list of alarms. You can query any alarm that is generated by calling this API.

Domain name: monitor.api.qcloud.com

2. Input Parameters

Parameter Name	Required	Type	Description
namespace	No	String	Namespace, which can be queried by calling the API Query Namespace (DescribeNamespace). Alarms under all namespaces will be queried if this is left empty
metricName	No	String	Metric name, which can be queried by calling the API Query Metric (DescribeMetric). Alarms under all metrics will be queried if this is left empty
dimensions.n.name	No	String	Key of the dimension group. A key and a value are used together to identify a specific object of your interest. Alarms for all objects will be queried if this is left empty. The keys can be queried by calling the API Query Metric Object List (DescribeObjects)
dimensions.n.value	No	String	Value of the dimension group, which can be queried by calling the API Query Metric Object List (DescribeObjects)
starttime	No	datetime	Default start time is 00:00 of the current day

Parameter Name	Required	Type	Description
endtime	No	datetime	Default end time is the current time
offset	No	Int	Offset. Default is 0 (i.e. query result is displayed from the first alarm)
limit	No	Int	Number of rows to be displayed in the result. Default is 30. Starting from offset, this number of alarms are displayed

"namespace" is required when you enter "metricName".
dimensions.n.name and dimensions.n.value always come in pairs. metricName and namespace are required when entering dimensions.n.name and dimensions.n.value.

3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code, 0: Successful. Other values: Failed. For more information, please see Common Error Codes on the Error Codes page
message	String	Error message description. Null value indicates success
data	Array	This field exists if there is additional returned information

"data" is composed as follows:

Parameter Name	Type	Description
alarmList	Array	Alarm list
total	Int	Number of alarms

"alarmList" contains:

Parameter Name	Type	Description
metricName	String	Name of the metric related to the alarm
namespace	String	Namespace related to the alarm

Parameter Name	Type	Description
object	String	Object related to the alarm
occurTime	String	Occurrence time of the alarm, which is the time when the reported data met the alarm conditions for the first time. For example, if a user specifies that alarm should be triggered when average disk utilization stays above 80% in 10 minutes, then an occurrence time of 11:00 indicates that
maximum disk utilization during 10:50-11:00 was beyond 80%.		
recoverTime	String	Alarm recovery time. 0000-00-00 00:00:00 indicates the alarm has not recovered when the alarm list is queried.
If the reported data no longer meets the alarm conditions, alarm recovery time will be equal to the time when data returns to normal.		
sendStatus	Int	Whether the alarm has been successfully sent. 0: Yes. Other values: No
okStatus	Int	Whether the alarm has recovered. 0: Not recovered. 1: Recovered. 2: Recovered (timed out)
smsSendCnt	Int	Number of alarm SMS messages that have been sent
content	String	Content of the alarm
alarmRuleId	String	Alarm rule ID

4. Example

Input

```
https://monitor.api.qcloud.com/v2/index.php?Action=DescribeAlarmList
&<Common request parameters>
```

```
&namespace=cvm
&metricName=diskusage
```

Output


```
{
"code": 0,
"message": "",
"data": {
"alarmList": [
{
"metricName": "diskusage",
"namespace": "cvm",
"object": "ip=172.31.58.160&diskname=disk1",
"occurTime": "2016-02-23 11:10:00",
"recoverTime": "0000-00-00 00:00:00",
"sendStatus": "0",
"okStatus": "0",
"smsSendCnt": "1",
"alarmRuleId": "policy-f3h1bxvcsb",
"content": ""Machine disk utilization", statistical granularity: 300 seconds. Condition "max>=80
'%'" has persisted for 300 seconds"
}
],
"total": "1"
}
}
```


As shown in the result, the maximum disk utilization for the disk "ip=172.31.58.160&diskname=disk1" was above 80% during 11:05:00-11:10:00.